

IMPORTANT SAFEGUARDS

WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.







CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER. NO USER - SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

POWER CORD NOTICE FOR INTERNATIONAL OPERATION For 230V, 50Hz operation please select the power cord for your area. Select the plug for your area at one end and a IEC320 connector at the other. It is not necessary to make any other changes. If you have any questions please call Russound Inc. at 1-800-638-8055 or 603-659-5170

Safety Instructions:

- Read Instructions All the safety and operating instructions should be read before the appliance is operated.
- 2. Retain Instructions The safety and operating instructions should be retained for future reference.
- 3. Heed Warnings All warnings on the appliance in the operating instructions should be adhered to.
- 4. Follow Instructions All operating and user instructions should be followed
- Water and Moisture The appliance should not be used near water; for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool.
- 6. Carts and Stands The appliance should be used only with a cart or stand that is recommended by the manufacturer. An appliance and cart combination should be moved with care. Quick stops, excessive force and uneven surfaces may cause the appliance and cart combination to overturn.
- Wall or ceiling Mounting The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
- 8. Ventilation The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings, or placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
- Heat The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.

- 10. Power Sources The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
- 11. Grounding or Polarization Precaution should be taken so that the grounding or polarization means of an appliance is not defeated.
- 12. Power Cord Protection Power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, receptacles, and the point where they exit from the appliance.
- Cleaning The appliance should be cleaned only as recommended by the manufacturer.
- 14. Non-use Periods The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
- 15. Object and Liquid Entry Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through the openings.
- 16. Damage Requiring Service The appliance should be serviced by qualified service personnel when:
 - A. The power supply cord or the plug has been damaged; or
 - B. Objects have fallen, liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally; or
 - E. The appliance has been dropped or the enclosure is damaged.
- 17. Servicing The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

Precautions:

- Power WARNING: BEFORE TURNING ON THE POWER FOR THE FIRST TIME, READ THE FOLLOWING SECTION CAREFULLY.
 All models are designed for use with either AC120V, 60Hz or AC240, 50Hz voltages. The unit will autoswitch to either of these voltages
- Do Not Touch The Unit With Wet Hands Do not handle the CAM6.6 or power cord when your hands are wet or damp. If water or any other liquid enters the CAM6.6 cabinet, take the CAM6.6 to a qualified service person for inspection.
- 3. Location of CAM6.6 Place the CAM6.6 in a well ventilated location. Take special care to provide plenty of ventilation on all sides of the CAM6.6 especially when it is placed in an audio rack. If ventilation is blocked, the CAM6.6 may overheat and malfunction. Do not expose the CAM6.6 to direct sun light or heating units as the CAM6.6 internal components temperature may rise and shorten the life of the components. Avoid damp and dusty places.
- 4. Care From time to time you should wipe off the front and side panels of the cabinet with a soft cloth. Do not use rough material, thinners, alcohol or other chemical solvents or cloths since this may damage the finish or remove the panel lettering.

This device complies with Part 15B of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. Changes or modifications not expressly approved by Russound could void the user's authority to operate this equipment.



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USER SECTION

Component Guides

Explains front panel features of the CAM6.6 controller, UNO-S1 keypad, UNO-S2 keypad and UNO-LRC1 remote control.

Operation

Step-by-step outline of the system's normal operation, plus a look at adjustable features available through the User Menu.



PRODUCT INTRODUCTION

Thank you for choosing the Russound® CAM6.6X-S1/S2 System to enhance your home with distributed audio. It combines the CAM6.6 Controller Amplifier and UNO keypads into a state-of-the-art home audio system that blends seamlessly with your unique lifestyle and preferences.

Besides distributing and controlling six audio sources to six rooms (zones), your CAM6.6X-S1/S2 System offers many features that increase your enjoyment of living. Here are several that you may find particularly beneficial.

Internal Source

The CAM6.6X Controller Amplifier includes an optional internal source - an XM satellite radio module. XM satellite radio provides over 100 channels of music, news sports, comedy, talk and entertainment. Its coast-to-coast coverage, digital quality sound and commercial-free music channels make XM radio the choice for the discriminating listener.

XM radio is a subscription-based service, and listeners can subscribe by visiting XM on the web www.xmradio.com or by calling XM's Listener Care at 800-852-9696.

The XM tuner module can store up to 36 favorites, or memory presets. These are stored in groups of six called banks, and there are six banks. Each preset and each bank can be given a custom name of your choice.

Favorites

The UNO-LRC1 remote and the UNO-S2 keypad's F1 and F2 buttons are preset favorites. These easy-to-set buttons make it possible to hear your favorite radio station or watch your favorite satellite channel at just the right volume in your room with just a button push. Want something new? Just resave the Favorite with a new choice.

Do Not Disturb

The Do Not Disturb mode prevents unwanted interruptions in your room and stops changes to your selected audio source. You may have a nursery or study that you want to keep quiet, or maybe you are watching a DVD and don't want it interrupted. Simply set the Do Not Disturb mode to "on" using the User Menu, and be free from Party Mode interaction and system-wide functions like "All On" or "All Off."

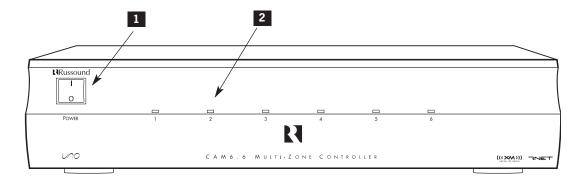
Party Mode

Ready to set the mood? In Party Mode, you just pick the source and the sound settings and hear the music throughout all the rooms. The Master keypad simultaneously controls all the keypads in all the rooms to effortlessly select or control the components. A great benefit of the Party Mode feature is the ability to transfer the Master keypad mode to any keypad in the system. If the living room is the center of the party, use that room's keypad as Master. If the party moves to the sunroom and porch, that room's keypad can be set to Master instead.

Here at Russound we are proud to continue providing innovative and intuitive audio product solutions to the world. When you link the industry-leading CAM6.6X-S1/S2 system with Russound's commitment to its products and customers, you have truly made – "the right connection."



CAM6.6 Controller-Front Panel



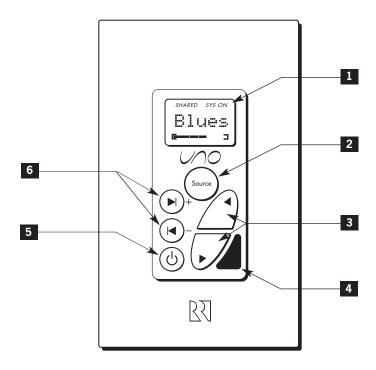
- 1 MAIN POWER SWITCH Supplies power to the CAM6.6
- 2 ROOM LED ON/OFF INDICATORS Indicates when a room is on (green) or off (red)

Main Power and Zone Status

The power switch for the CAM6.6 controller is "on" in the up position. Any active room is indicated on the front of the controller by a green LED, which shows red when the room is inactive. In most basic installations, all functions and room settings are controlled through the corresponding UNO Systems Keypads.

USER COMPONENT GUIDE

UNO-S1 Keypad-Front Panel



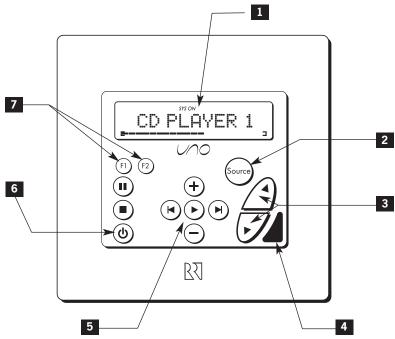
- 1 LCD PANEL 5-character backlit display shows status of the room, source, volume, and more
- 2 SOURCE SELECT BUTTON Scrolls through the sources directly connected to the CAM6.6. Press and hold brings up the USER MENU for loudness, bass, treble, etc.
- 3 VOLUME UP/DOWN BUTTONS Raises and lowers the volume for the room
- IR RECEIVER Receives IR signals and passes them to the controller and source equipment. Also used when operating the UNO Keypad by using the UNO-LRC1 remote
- POWER BUTTON Turns room ON or OFF when pressed once, press and hold a second time will turn on or off all CAM6.6 rooms
- 6 COMMAND KEYS Pressing the command keys controls the source equipment

 - FORWARD (press)
 DISC, CHANNEL UP (press and hold)

 - REVERSE (press)
 DISC, CHANNEL DOWN (press and hold)

USER COMPONENT GUIDE

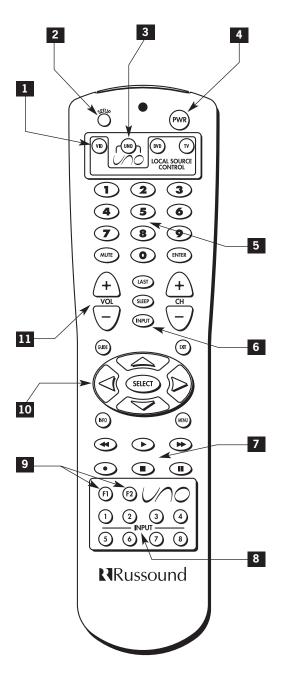
UNO-S2 Keypad-Front Panel



- LCD PANEL 12-character backlit display shows status of the room, source, volume, and more
- SOURCE SELECT BUTTON Scrolls through the sources directly connected to the CAM6.6. Press and hold brings up the USER MENU for loudness, bass, treble, etc.
- VOLUME UP/DOWN BUTTONS Raises and lowers the volume for the room
- IR RECEIVER Receives IR signals and passes them to the controller and source equipment. Also used when operating the UNO Keypad by using the UNO-LRC1 remote
- 5 COMMAND KEYS Pressing the command keys controls the source equipment
 - (+) DISC, CHANNEL UP
 - (–) DISC, CHANNEL DOWN
 - FORWARD
 - (►) REVERSE
- POWER BUTTON Turns room ON or OFF when pressed once, press and hold a second time will turn on or off all CAM6.6 rooms
- F1 AND F2 BUTTONS Selects Favorite 1 or Favorite 2 preset user-selected favorite settings per room

USER COMPONENT GUIDE

UNO-LRC1 Remote Control



- LOCAL DEVICE BUTTONS Select local source to be controlled by UNO-LRC1.
- SETUP Use for programming UNOLRC1 using the built-in library or by learning-in codes.
- UNO SOURCE BUTTON Selects UNO Keypad for control by UNO-LRC1.
- ROOM ON/OFF Turns room on and off while in the UNO mode.
- NUMBER BUTTONS Buttons (0-9) for direct selection of channels or tracks.
- 6 INPUT Scrolls through sources connected to the CAM6.6 while in the UNO mode.
- COMMAND KEYS Control the source (tuner, CD player, etc.) with these buttons.
- 8 INPUT Directly select audio sources connected to the CAM6.6 while in the UNO mode.
- 9 F1 AND F2 BUTTONS Selects Favorite 1 or Favorite 2 preset selections.
- CURSOR KEYS Issues IR commands for source equipment, allowing movement through menus and program screens.
- VOLUME UP/DOWN Raises and lowers the volume for the room you are in.

OPERATION

UNO-S1 Keypad

Zone On/Off

Press and release (b) to turn on the UNO System Keypad. This also turns on the corresponding CAM6.6's room, and any presets previously assigned will be activated, including settings for bass, volume, last source selected, etc. Press and release (b) to turn off the UNO System Keypad. This will also put the corresponding CAM6.6's room into a standby state.

System All On/Off

An "All On" command is issued by pressing (4) and holding for 3 seconds, after an initial room has been turned on. An "All Off" command can be issued to all rooms by pressing and holding (b) after the room has been turned off.

System On Indicator

When the room is off, but the system is on in another room, (b) is illuminated by a green backlight and the "SYS ON" icon remains visible.

Source Select Button

scrolls through the audio source inputs. To change sources, press and release . As the sources are sequentially selected, each source's name appears on the keypad LCD panel. When a source is selected in more than one room, the "SHARED" icon will appear on all UNO Keypads using that source. is also used to enter the

User Menu with a press and hold action. (See next page for User Menu)

Volume Up/Down Buttons

The room's audio output is adjusted using $\frac{\triangle}{1}$.

Command Keys

The command keys

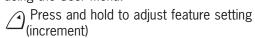
allow control of the selected source at the UNO Keypad. The command keys are activated with a press and release, or press and hold to access secondary functions.

USER USER MENU SETTINGS

UNO-S1 User Menu Operation

The User Menu allows the user to adjust the audio properties and control functions of a particular room.

To enter or exit the User Menu, press and hold during normal operation. The following keys are used to navigate and make changes while using the User Menu:



Press and hold to adjust feature setting (decrement)

- Go to next feature.
- Go to previous feature.
- Wiew current feature setting.

Note: When within the UNO-S1 User Menu, if no keys are pressed, the display will revert back to its runtime display.

UNO-S1 User Menu

The following features make up the User Menu:

Bass (a) Treb (b) Loud (c) Bal (c) OnVol (c) Bkgnd (e) DND (e) Party (e)

Feature and Setting:

- **1. Bass** -10 < Bass:Flat > +10
- **2. Treb (Treble)** -10 < Treble:Flat > +10
- **3. Loud (Loudness)** (more bass, fuller sound) On or Off
- **4. Bal (Balance)** Left 10 < Center > Right 10
- **5. OnVol (Turn on Volume)** (default room volume level) 0 to 100 (in steps of 2)
- **6. Bkgnd (Background Color)** (keypad background light) Amber or Green or Off
- 7. DND (Do Not Disturb) On or Off (default)

Do Not Disturb means do not disturb this room or selected source. This stops pages from being sent to this room, stops an "All Off," "All On" or Party Mode command from affecting this room.

When another UNO Systems Keypad selects the same source, a DND message will scroll on the the LCD panel, alerting the user the source is in Do Not Disturb mode.

8. Party (Party Mode) - Master or Off

When in "PARTY MODE" the system is primarily controlled by a "MASTER" Keypad. Party Mode links all rooms to the same source which is selected by the Master Keypad room. Any keypad in the system can become a Master Keypad (if enabled) but only one Master Keypad may exist at a time in Party Mode. Selecting Master Keypad mode from another keypad will transfer Master Keypad control to that room and release it from the first. When the source selected in the Master Keypad room is changed then the source for all rooms changes as well. The keypad will scroll a PARTY message on the LCD panel. It will scroll a MASTR message in lieu of PARTY if Master is enabled.

Volume level changes at the Master Keypad will be reflected in all rooms in Party Mode. Non-Master zones in Party Mode can temporarily override Master Keypad volume level adjustments for their particular room preference. Master Keypad will not change Bass, Treble, or Loudness adjustments for any other rooms other than the Master Keypad room. Every other keypad will still operate its respective bass, treble, balance and loudness adjustments for that room.

OPERATION

UNO-S2 Keypad

Zone On/Off

Press and release (b) to turn on the UNO System Keypad. This also turns on the corresponding CAM6.6's room, and any presets previously assigned will be activated, including settings for bass, volume, last source selected, etc. Press and release (b) to turn off the UNO System Keypad. This will also put the corresponding CAM6.6's room into a standby state.

System All On/Off

An "All On" command is issued by pressing (b) and holding for 3 seconds, after an initial room has been turned on. An "All Off" command can be issued to all rooms by pressing and holding (b) after the room has been turned off.

System On Indicator

When the room is off, but the system is on in another room, (b) is illuminated by a green backlight and the "SYS ON" icon remains visible.

Source Select Button

scrolls through the six A/V source inputs. To change sources, press and release . As the sources are sequentially selected, each source's name appears on the keypad LCD panel. When a source is selected in more than one room, the "SHARED" icon will appear on all UNO Keypads using that source.

is also used to enter the User Menu with a press and hold action. (See next page for User Menu)

Volume Up/Down Buttons

The room's audio output is adjusted using $\frac{\triangle}{\sqrt{2}}$.



F1 and F2 Buttons

The (f) and (f2) buttons are user favorite presets. These presets can be selected at any time to recall source selection, volume, and favorite channel, disk, etc. To store a favorite preset: first, adjust the room settings and select a source to be stored. Next, press and hold the desired (F1) or (2) button until SAVED is displayed on the LCD panel. Now a press and release of the button will recall the favorite preset. To set a favorite numbered disk or channel, use \bigoplus or \bigoplus to select a disk or channel (e.g., channel 45). Wait for the keypad to show the source name, then press and hold the F1 or F2 within 15 seconds of setting the numeric selection to save the setting.

Command Keys

The command keys allow control of the selected source at the UNO Keypad. The command keys are activated with a press and release, or press and hold to access secondary functions.











USER MENU SETTINGS

UNO-S2 User Menu Operation

The User Menu allows the user to adjust the audio properties and control functions of a particular room.

The following keys are used to navigate and make changes while using the User Menu:

To enter the User Menu, press and hold during normal operation. To exit the User Menu, press and release .

- Adjust feature setting (increment).
- Adjust feature setting (decrement).
- Go to next feature.
- Go to previous feature.
- **▶** View current feature setting.

Note: When within the UNO-S2 User Menu, if no keys are pressed, the display will revert back to its runtime display.

The following features make up the User Menu:

BASS TREBLE LOUDNESS BALANCE
TURN ON VOL BG COLOR DO NOT
DSTRB PARTY MODE

Feature and Setting:

- 1. BASS
 - -10 < Bass:Flat > +10
- 2. TREBLE
 - -10 < Treble:Flat > +10
- **3. LOUDNESS** (more bass, fuller sound) On or Off
- 4. BALANCE

Left -10 < Center > Right +10

- **5. TURN ON VOL** (default room volume level) 0 to 100
- **6. BG COLOR** (keypad background light) Amber or Green or Off

7. DO NOT DSTRB - On or Off (default)

Do Not Disturb means do not disturb this room or selected source. This stops pages from being sent to this room, stops an "All Off," "All On" or Party Mode command from affecting this room.

When another UNO Systems Keypad selects the same source, a DND icon will appear alerting the user the source is in Do Not Disturb mode.

8. PARTY MODE - Master (Enable) or Off (Disable)

When in "PARTY MODE" the system is primarily controlled by a "MASTER" keypad. Party Mode links all rooms to the same source which is selected by the Master Keypad room. Any keypad in the system can become a Master keypad (if enabled) but only one Master Keypad may exist at a time in Party Mode. Selecting Master keypad mode from another keypad will transfer Master keypad control to that room and release it from the first. When the source selected in the Master keypad room is changed then the source for all rooms changes as well.

Volume level changes at the Master Keypad will be reflected in all rooms in Party Mode. Non-Master zones in Party Mode can temporarily override Master Keypad volume level adjustments for their particular room preference. F1 and F2 favorite presets selected from the Master Keypad will be enabled in all rooms in Party Mode. Master Keypad will not change Bass, Treble, or Loudness adjustments for any other rooms other than the Master Keypad room. Every other keypad will still operate its respective bass, treble, balance and loudness adjustments for that room.

USER INTERNAL SOURCE - XM TUNER

XM Radio Overview

XM Radio Activation

XM Radio is over 100 channels of radio broadcasts with the signal delivered by satellite and (depending on location) transferred by terrestrial antennas. The radio is a subscription-based service with a monthly provider fee and an activation charge. XM radio broadcasts several channels for preview but will not broadcast the full range of channels without activation. Activation and billing are handled solely through XM Radio.

To activate the XM tuner:

- 1. Turn on the power, select the XM Tuner source, and select channel 0. The tuner's eight-character XM satellite Radio ID number will appear on the display. Write the number down to have it available when contacting XM Radio for activation. The number is also shown on the back of the unit and on the product box.
- 2. To subscribe, have a major credit card and your XM Radio ID number at hand and contact XM at http://www.xmradio.com/activation You can also activate service by calling XM Radio at 1-800-852-9696. You will be guided through the activation process step by step.
- 3. A complete and up-to-date full channel listing is available on the XM Radio website, www.xmradio.com.

XM Radio Displays

In addition to Channel and Category information, the XM tuner will broadcast operating condition messages when the following conditions occur:

| Display | Condition |
|----------|----------------------------------------------------------|
| ANTENNA | Antenna not connected |
| UPDATING | Updating encryption code |
| LOADING | Acquiring channel audio or information |
| OFF AIR | Channel not in service |
| CH | Channel (SID) no longer available |
| | Corresponding Artist Name or Song Title are null (empty) |
| | No channel available for the chosen category |

USER INTERNAL SOURCE - XM TUNER

XM Radio Modes

XM Radio Modes

There are four user "modes" for selecting music on the XM Tuner:

Preset (default or normal)

Category Search

Now Playing

Display Preferences.

These modes are accessed through certain button and key presses from the tuner panel, remote controls and keypads. When choosing modes, if no choice is made after 20 seconds, the tuner will time out by showing EXIT and return to tuner display and Preset mode.

For all XM Modes

The chart below outlines the button presses for various XM tuner functions *outside* of the XM modes.

If the UNO-S1 button operation is not specifically mentioned, use the UNO-LRC1 to transmit commands through the UNO-S1.

| | UNO-S1 | UNO-S2 | UNO-LRC1 |
|-----------------------|--------|----------|-----------------------|
| All User Modes | | | |
| Operating Mode Toggle | | • | SELECT (ENTER) (MENU) |
| Exit Current Mode | | • | ■ EXIT |
| Signal Strength | | Hold | • Hold |

Operating Mode Toggle

This button press accesses the three XM modes. The three modes will appear in order: Category Search, Now Playing and Display Preferences.

Exit Current Mode

This button press returns the XM tuner to Preset (default) mode.

Signal Strength

This button press and hold accesses the Signal Strength mode. Depending on the signal, the following will be displayed:

GOOD SIGNAL Signal strength good
MARGINAL SIG Signal strength marginal
POOR SIGNAL Signal strength poor
NO SIGNAL Loss of signal

Press the appropriate button again to exit Signal Strength Mode.

USER INTERNAL SOURCE - XM TUNER

XM Radio Modes

Preset (default) Mode

This is the normal operating mode of the XM tuner for channel up and down, bank selection and memory presets.

Next Preset

This button press accesses the next saved preset (6 presets for each bank) in the chosen bank.

Previous Preset

This button press accesses the previous saved preset in the chosen bank

Next Bank

This button press accesses the next bank (total of 6 banks).

Previous Bank

This button press accesses the previous bank.

Channel Up

This button press accesses the next active channel up from the current channel.

Channel Down

This button press accesses the next active channel down from the current channel.

| | UNO-S1 | UNO-S2 | UNO-LRC1 |
|-----------------|-----------|----------------------|------------|
| Preset Mode | | | |
| Next Preset | (A) | P | ▶ ⓑ |
| Previous Preset | (4) | (4) | • ③ |
| Next Bank | | ► Hold | → Hold |
| Previous Bank | | Hold | Hold |
| Channel Up | Hold Hold | + | (H) |
| Channel Down | Hold | $\overline{\ominus}$ | (H) |

USER INTERNAL SOURCE - XM TUNER

XM Radio Modes

Category Search Mode (1.CAT SEARCH)

XM Radio is organized by Channel Category (e.g., Rock, Country, News). Within each category is a series of channels (e.g., Top Tracks, Bluegrass Junction, XM Classics). Channel selection in this mode is refined to scrolling only those channels in the selected category.

Next Category

This button press accesses the next category from the current category.

Previous Category

This button press accesses the previous category from the current category.

Category Channel Up

This button press accesses the next channel up within the selected category.

Category Channel Down

This button press accesses the next channel down within the selected category.

| | UNO-S1 | UNO-S2 | UNO-LRC1 |
|-----------------------|--------|----------|------------|
| Category Search Mode | | (| GUDE |
| Next Category | Þ | P | (*) |
| Previous Category | (4) | (4) | 4 |
| Category Channel Up | Hold | + | + CH |
| Category Channel Down | Hold | Θ | CH |

USER INTERNAL SOURCE - XM TUNER

XM Radio Modes

Now Playing Mode (2.NOW PLAYNG)

This mode displays information about the current XM selection. Appropriate button presses access the next or previous information item.

NAME:

Displays the artist's name, feature name or program name (news, talk, sports).

TITLE:

Displays the song title or program title.

CATEGORY:

Displays the current category.

| | UNO-S1 | UNO-S2 | UNO-LRC1 |
|--------------------|--------|----------|------------|
| Now Playing Mode | | (| INFO |
| Next Info Item | (A) | (F) | (b) |
| Previous Info Item | (4) | (4) | • ③ |

Display Preference Mode (3.DSPLY PREF)

This mode allows you to choose how XM channel information will be displayed on the keypad and tuner. Appropriate button presses access the next or previous preference item.

Note: For any display configuration, the artist's name and song title will scroll before the display returns to the designated display format.

Channel Number (CH NUMBER:)

This selection displays the channel number only (e.g., XM070, XM103).

Channel Name (CH NAME:)

This selection displays the channel name only (e.g., ESPN Radio, Real Jazz).

Channel Number and Name (#:CH NAME:)

This selection displays the channel number and name (e.g., 64:The Groove, 121:Fox News).

| | UNO-S1 | UNO-S2 | UNO-LRC1 |
|-----------------------------|----------------|-------------|----------------|
| Display Preference Mode | | \odot | SELECT ENTER • |
| Next Display Preference | P | (x) | ▶ ⓑ |
| Previous Display Preference | (l | (F) | • ③ |

USERINTERNAL SOURCE - XM TUNER

UNO-S1 Keypad Control UNO-S1 Keypad Control of Tuner Selecting the tuner

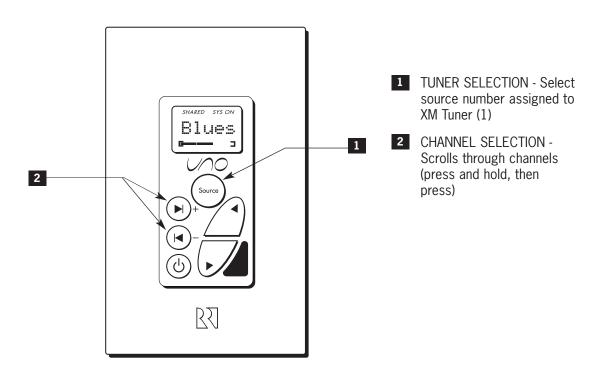
On the UNO-S2 keypad, press to select the XM Tuner by choosing the tuner's preassigned source number (1).

Selecting the desired channel

Press and hold \bigcirc and \bigcirc to activate manual

channel selection. Once active, press $oldsymbol{\Theta}$ or $oldsymbol{\Theta}$ to scroll through channels. The channel will scroll twice on the keypad then stop and display the channel display format's first five characters.

If an XM radio tuner operation does not specifically refer to an UNO-S1 button operation, use the UNO-LRC1 remote control to transmit commands through the UNO-S1.



USER INTERNAL SOURCE - XM TUNER

UNO-S2 Keypad Control

UNO-S2 Keypad Control of Tuner

Selecting the tuner

On the UNO-S2 keypad, press to select the XM Tuner by choosing the tuner's preassigned source number (1).

Selecting a Mode

Push • to toggle between XM modes.

Exiting a Mode

Press • to exit XM mode selection menu.

Selecting the desired channel

Use \bigoplus and \bigoplus for manual channel selection. The channel will appear on the keypad. To move quickly through the channels, press and hold either \bigoplus or \bigoplus for more than 1.5 seconds.

Signal Strength Mode

To check XM signal strength, press and hold

then release. The display shows the signal strength rating. To exit, press again.

Selecting a Bank

To select a bank, press and hold for bank up or for bank down. The bank's name will be temporarily displayed on the UNO-S2.

Recalling a Memory Preset

Press (and to scroll through the memory presets for the selected bank. This procedure will step through all of the presets in the current bank, then loop back to start at the first one.

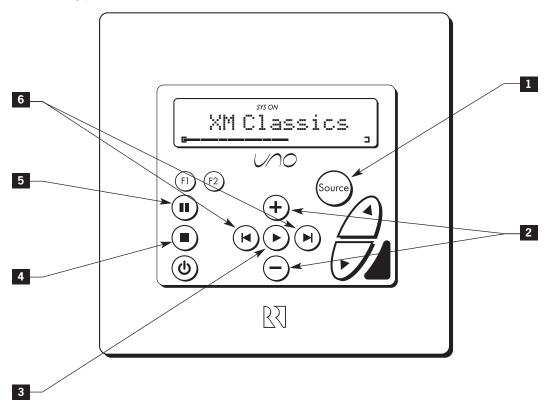
Only configured presets will be displayed.

Mute

Press (II) to mute/unmute the tuner audio output.

USER INTERNAL SOURCE - XM TUNER

UNO-S2 Keypad Control



- TUNER SELECTION Select source number assigned to XM TUNER (1)
- TUNE UP/DOWN Used for manual channel selection
- 3 SELECT XM operating mode toggle
- 4 SEEK (press) Exit current XM mode

- 4 SCAN (press and hold) XM Signal Strength mode toggle
- MUTE Mutes/unmutes tuner audio output
- 6 BANK SELECT Used for bank selection (press and hold)
- 6 MEM UP/DOWN Scrolls through memory preset stations (press)

USER INTERNAL SOURCE - XM TUNER

UNO-LRC1 Remote Control

<u>UNO-LRC1 Remote Control of Tuner</u> Selecting the tuner

To select the XM tuner, push and choose the source number preassigned to the XM Tuner (1), or use the UNO numeric source inputs at the bottom of the UNO-LRC1.

Selecting a Mode

Push SELECT, or to toggle between XM operating modes.

Exiting a Mode

Press or or to exit XM operating mode menu.

Signal Strength mode

Press and hold and release. The display shows the signal strength rating. To exit press

Selecting the desired channel

Use the Channel + and or and for manual tuning. To move quickly through the channels, press and hold the button for more than 1.5 seconds. To directly select a channel, enter the one-, two- or three-digit channel.

Recall Last Channel

Press the (LAST) button to recall the last channel selected.

Selecting a Bank

To select a bank, press and hold for bank up or for bank down.

Setting a Memory Preset

To set a memory preset, tune to the desired channel, then press and hold the appropriate number key (1-6) for the preset. When the memory preset is saved, the appropriate preset number (M1 through M6) and SAVED will be temporarily displayed on the UNO-S2.

Recalling a Memory Preset

Press and to scroll through a loop of all the memory presets for the currently selected bank. Only configured presets will be displayed.

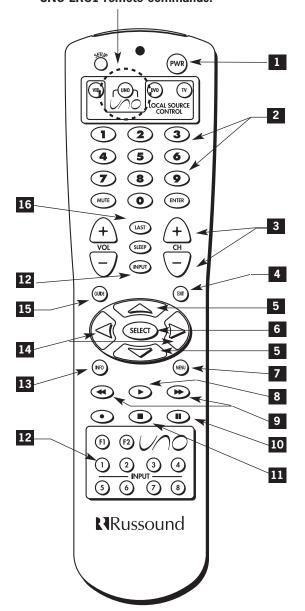
Mute

Press the button to mute/unmute the tuner audio output.

USERINTERNAL SOURCE - XM TUNER

UNO-LRC1 Remote Control

UNO SELECTION - UNO must be the selected source for control of the CAM6.6 and any connected components. Select UNO before sending UNO-LRC1 remote commands.



- 1 POWER Power managed by CAM6.6
- NUMERIC INPUT Number buttons for direct input of channel, preset, bank (press). Memory preset save (press and hold)
- TUNE UP/DOWN Incrementally scrolls through channels
- 4 EXIT Exit XM operating mode
- TUNE UP/DOWN Incrementally scrolls through channels
- 6 SELECT XM Operating mode toggle
- 7 MENU XM Operating mode toggle
- PLAY XM Operating mode toggle
- 9 BANK UP/DOWN Used for bank selection (press and hold)
- 9 MEM UP/DOWN Scrolls through memory presets for selected bank (press)
- MUTE Mutes/unmutes tuner audio output
- 11 SCAN Exit XM Operating mode
- TUNER SELECTION Select source number assigned to XM Tuner (1)
- 13 INFO XM Now Playing mode toggle
- SEEK UP/DOWN Next/previous preset, category, info item, display preference
- 15 GUIDE XM Category Search mode toggle
- 16 LAST Recalls last XM channel selected



INSTALLER SECTION

Getting Started

Includes an installation overview, including tools needed and wiring instructions.

Component Guides

Reviews front and back panel features of the CAM6.6 controller and the UNO-S1 and UNO-S2 keypads.

Keypad Installation

Explains UNO-S1 and UNO-S2 keypad installation and wiring.

Making Connections

Details front and back panel connections of the controller and the keypad.

System Programming Overview

Outlines the programming planning process, and includes information forms to complete prior to programming.

Installation Menu

Explains the programming menus that set up controller, keypad, source and zone operations.

Setup Menu Flow Charts

Presents the programming menus in a graphical flow chart format.

IR Device Codes

A list of controller's IR device code library for source Device Code entries.

Key Function Codes

A list of IR codes for each command type contained in the built-in library.

Source Names

A list of Source Names available for assignment.

Sample Configurations

Diagrams of various configurations using CAM6.6s and other components.

INSTALLERGETTING STARTED

Unpacking the System Components

- Keep the original carton and packing materials for future shipment or storage.
- Check for any visible signs of damage. If you encounter any concealed damage, consult your Russound dealer before proceeding to install the unit.
- Retain the sales receipt as it establishes the duration of the limited warranty and provides information for insurance purposes.

CAM6.6X-S1/S2 System Components:

- 1 (one) CAM6.6 Controller/Amplifier
- 1 (one) UNO-S2 System Control Keypad
- 5 (five) UNO-S1 System Control Keypads
- 1 (one) UNO-LRC1 Learning/Preprogrammed Remote Control
- 6 (six) 845.1 Micro Emitters

Tools needed for installation:

- Drill with a 1/2" x 6" drill bit
- Keyhole saw
- Flat head screwdriver (medium size)
- Phillips Screwdriver (cordless recommended)
- 110 punchdown tool (included)
- Modular RJ-45 crimper and connectors
- Pair of diagonal cutters or wire strippers
- Stud finder
- Steel wire fish tape
- Cable staples
- Double-gang electrical work box
- Single-gang electrical work boxes

System Installation Considerations

There are several factors to consider before installing the Russound CAM6.6X-S1/S2 system:

- What are the intended listening zones?
- What system options and accessories might be required for features such as local sources, etc.?
- From where in each zone will the user prefer to control the system? Where will the keypads be located? Where will the speakers be located?
- Where will the source equipment be located?
 The CAM6.6 must have proper ventilation above and below for air circulation and heat dissipation.
 A rack-mount location may require fans and vents.

Connection Tips

- It is recommended that the CAM6.6 and the source equipment be plugged into a dedicated 20-amp circuit with an isolated ground. A power line conditioner can reduce interference problems caused by noise found in some electrical systems.
- Disconnect all live power cords before making connections to the controller.
- Verify that all connections and polarity are correct.
- Keep all power cords away from all signal cables to prevent humming from induced noise.
- Choose reliable signal cables/patch cords.
- Label all wires with room location at both ends of the wire.

INSTALLER WIRING INSTRUCTIONS

CAUTION



Do not connect the controller's main power feed until all other connections have been made and verified. Live connection or removal of the keypad wiring or other wiring when the system is powered can cause communication problems in the network. Double-check terminations during each phase of the installation to prevent accidental damage. Incorrect wiring is the number one cause for non-warranty product damage.



Keypad Wiring

For the UNO-S2 and UNO-S1 keypad, the following connections are used to terminate the CAT-5 wire to the 110 punchdown on the keypad:

| CAT-5 WIRE COLOR | TYPE |
|-------------------|-------------|
| Brown | +12V |
| Brown/White | +12V |
| Green | ound |
| Green/White State | tus In |
| Orange Gr | ound |
| Orange/WhiteII | R Out |
| Blue C | OM A |
| Blue/White | OM B |

• To determine the amount of CAT-5 wire required for the system installation, first decide how many keypads will be used, then determine the distance between each intended keypad location to the intended CAM6.6 location. The maximum recommended wire run length is 250 feet for each UNO Keypad.

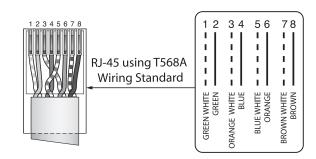
- Make sure that the entire wire path between keypads and CAM6.6 is clear and not obstructed by a floor ceiling joist, or masonry wall which can't be drilled through.
- Confirm ahead of time that you can drill an outlet hole easily and in an unobtrusive spot to connect wires with the CAM6.6.
- Label wires with keypad and room location. This simplifies CAM6.6 hook-up once the keypads and speakers are installed.

Speaker Wiring

- Standard 16-gauge 4-conductor stranded speaker wire can be run up to to 125 feet; 14-gauge wire can be run up to 250 feet.
- When running wire, avoid locations concealing pipes, heating ducts and AC wiring in the general vicinity.
- Avoid running wires close to house electrical wiring for any distance. If you have to run them parallel, make sure to space the wires at least two feet from the AC line.

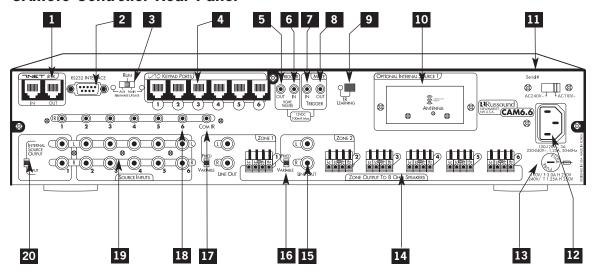
RJ-45 Connections

The CAT-5 T568A wiring standard shown on the right is used for the RJ-45 terminations.



INSTALLERCOMPONENT GUIDE

CAM6.6 Controller-Rear Panel



- RNET LINK IN AND LINK OUT Links multiple CAM6.6's, also links future Russound components that are RNET compatible
- RS-232 INTERFACE The RS-232 Interface allows the zones to be controlled by PC or other devices that have an RS-232 Interface. The RS-232 Interface also allows for firmware updates and programming.
- 3 AUX-MAIN RUN SWITCH For firmware updates
- 4 UNO KEYPAD PORTS One UNO Keypad Port for each of the six CAM6.6 Zones
- 12VDC TRIGGER OUT 12VDC 100mA Trigger Out turns on when any zone is on
- HOME THEATER 12VDC TRIGGER IN 12VDC input jack notifies the CAM6.6 that additional components are active, e.g., home theater equipment
- MUTE 12VDC TRIGGER IN Applying 12VDC to the Mute 12VDC Trigger In jack will activate Audio for assigned CAM6.6 Zones and mutes the audio
- MUTE 12VDC TRIGGER OUT Mute Trigger Out supplies 12VDC 100 mA whenever 12VDC is applied to the Mute 12VDC Trigger In
- 9 IR LEARNING WINDOW IR receiver for learning in IR commands with confirmation LED

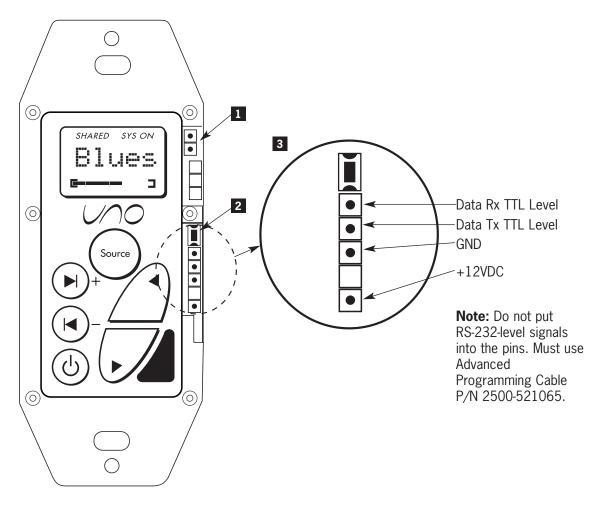
INSTALLER COMPONENT GUIDE

CAM6.6 Controller-Rear Panel

- OPTIONAL INTERNAL SOURCE Factory installed optional internal source, XM radio module
- AC 240V-AC 110V Switch Switches A/C input voltage between 110VAC and 240VAC
- AC 120/240 INPUT Grounded 3-terminal plug detachable power cord connection for the CAM6.6
- FUSE HOLDER Holds a replaceable fuse for A/C input connection 110VAC operation-F 3A H 250V, 240VAC operation-F 1.25A H 250V
- SPEAKER OUTPUTS Connect 8 Ohm speakers for each zone by using detachable color-coded modular snap connectors
- AUDIO OUTPUTS Audio line output connection
- FIXED/VARIABLE SWITCH Change line out between fixed and variable output.
- COMMON IR OUTPUT Output jack will pass all IR signals from all keypads
- SOURCE IR OUTPUTS Six source-specific IR Output jacks allow for IR control of source equipment
- AUDIO INPUTS Six sets of Audio Line Level input connections for CAM6.6 source components
- OUTPUT/INPUT SWITCH Enable Source Input 1 or enables Internal Source 1 output

INSTALLER COMPONENT GUIDE

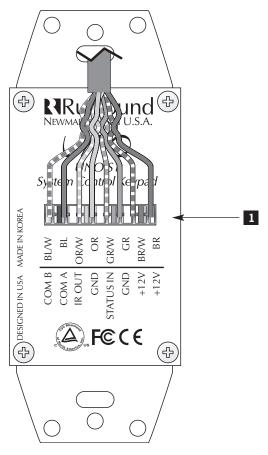
UNO-S1 Keypad-Update Port



- OS Update/Run Jumper -The pins are jumpered when performing an OS update on the keypad, and removed during normal operation. (Typically needed only on a keypad that has never been updated)
- Setup Button Activates information and update menus for the keypad.
- OS Update Port Used to update the UNO-S1 keypad operating system firmware. If an update is released, it will be available online through the Document Center on www.russound.com. Look for it in the "Firmware and Downloads" section under Multi-Zone product type. The Advanced Programming Cable is available from Russound, Part #2500-521065.

INSTALLERCOMPONENT GUIDE

UNO-S1 Keypad-CAT-5 Connection



110 PUNCHDOWN CONNECTOR - Termination for CAT-5 connection between the UNO-S1 Keypad and the CAM6.6 controller.

CAT-5 Connection

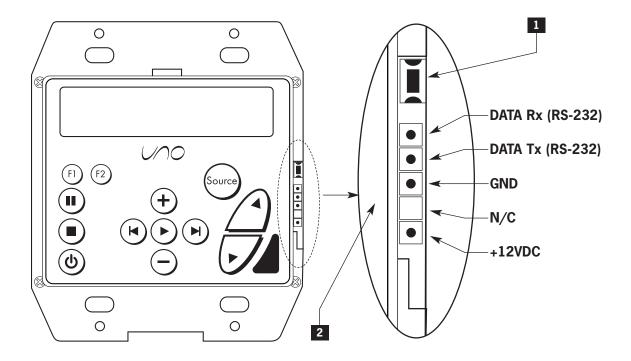
The UNO-S1 Keypad uses a 110-punchdown terminal to provide a simple installation and strong connection for CAT-5 cable's eight conductors. Punchdown terminals require the use of a punchdown tool which has been provided with the keypad kit. Attach the CAT-5 cable to the 110-punchdown terminal on the UNO-S1 Keypad as shown, matching the conductor colors to the connection color guide. The keypad will not operate properly if the terminations deviate from the required connection order.

Caution:

Take care when using an impact 110 punchdown tool, as this may overspread the contact points. Use of the impact tool may propel stray bits of wire and jacket into the keypad's chassis and possibly cause a short in the circuitry. Gently shake or blow air through the keypad chassis to remove stray wire before the keypad is installed into the junction box.

INSTALLER COMPONENT GUIDE

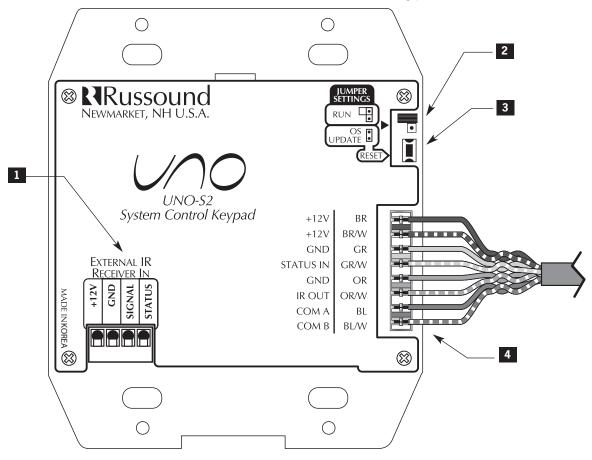
UNO-S2 Keypad-Update Port



- SETUP BUTTON Activates Installer Setup Mode for the UNO-S2 keypad
- OS UPDATE PORT The OS Update Port is used to update the UNO-S2 Keypad operating system software in the future. If an update is released, it will be available online through the Document Center on www.russound.com. Look for it in the "Firmware and Downloads" section under Multi-Zone product type. The Programming Cable is available from Russound, Part #2500-120633.

INSTALLER COMPONENT GUIDE

UNO-S2 Keypad-CAT-5 Connection



- **1** EXTERNAL IR RECEIVER IN CONNECTOR Connection for an external IR Receiver.
- OS UPDATE JUMPER Selects "Run" or "OS Update" mode.
- RESET BUTTON Reset whenever changing from RUN to OS update
- 4 110 PUNCHDOWN CONNECTOR Termination for CAT-5 connection between the UNO-S2 Keypad and the CAM6.6 controller.

INSTALLER UNO-S1 KEYPAD-INSTALLATION

Keypad Location

The best infrared remote performance is achieved with the keypad away from any direct sunlight, plasma TV, and low voltage lighting controls. Also consider convenience when choosing a location.

Choose a place that is easily seen from the position where a person is most likely to be located.

Check whether or not you can route the wire to the location you have chosen.

Keypad Installation

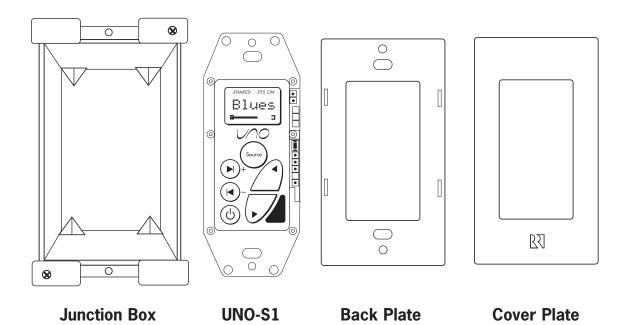
To install a single-gang keypad, you will need to use a UL/CSA approved plastic single-gang electrical box.

Route CAT-5 wire to the junction box from the CAM6.6.

Use the supplied 110 punchdown tool to connect each wire to its corresponding color labeled on the punchdown terminal.

Ensure jumper settings on keypads are in the run positions.

Mount the keypad in the electrical box and attach the cover plate. Repeat the steps until all keypads are installed.



INSTALLER UNO-S2 KEYPAD-INSTALLATION

Keypad Location

Keypad Installation

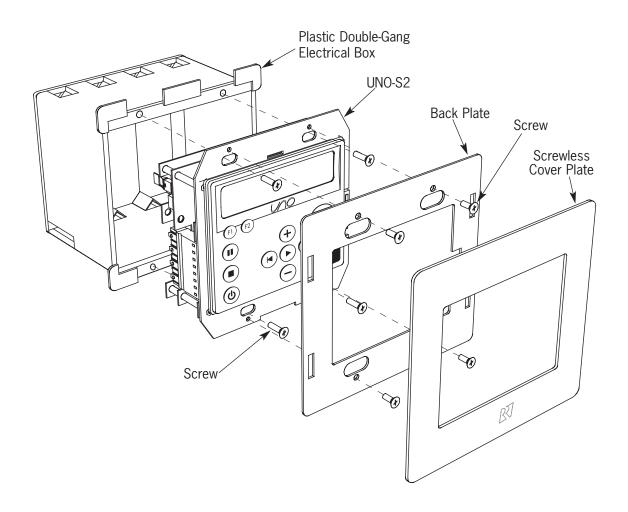
To install a double-gang keypad, you will need to use a UL/CSA approved plastic double-gang electrical box.

Route CAT-5 wire to the junction box from the CAM6.6.

Use the supplied 110 punchdown tool to connect each wire to its corresponding color labeled on the punchdown terminal.

Ensure jumper settings on keypads are in the run positions.

Mount the keypad in the electrical box and attach the cover plate. Repeat the steps until all keypads are installed.

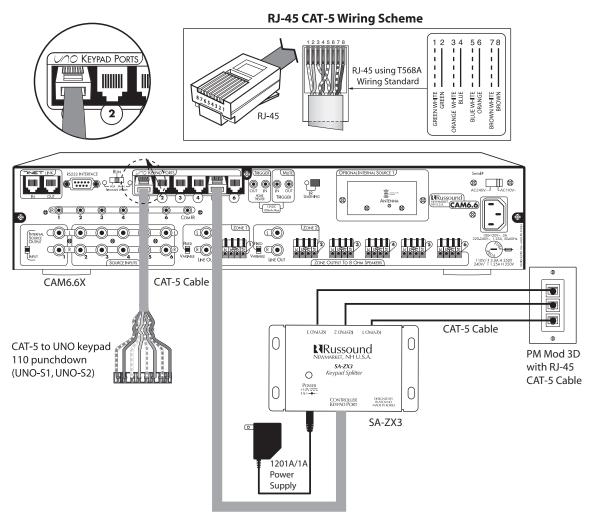


INSTALLER MAKING CONNECTIONS

UNO Keypad Port Connection

The UNO System Keypad Ports are located on the back of the CAM6.6 in the top left of center. Connections made at the UNO Keypad Ports are made using CAT-5 T568A RJ-45 wire configuration. CAT-5 is color-coded for ease of installation. For a clean installation when wiring from an UNO System Keypad Port use an RJ-45 CAT-5 patch cable to connect from the keypad port to an RJ-45 Wall Plate (optional). Using the same

CAT-5 T568A RJ-45 wiring configuration, use CAT-5 from the RJ-45 Wall Plate to the keypad. If using more than one keypad on a zone, connect a SA-ZX3 UNO System Keypad Splitter (optional) directly to the UNO System Keypad Port instead of going through the wall plate. Always use the CAT-5 T568A RJ-45 wire configuration when wiring any of the UNO System Keypad Ports.



Source Audio and IR Input Connections

Source Audio Connections

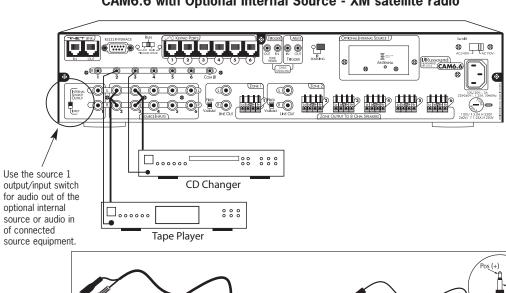
The CAM6.6 supports up to six audio sources. The Source Inputs are located at the back panel. The Source 1 input serves a dual purpose. If the CAM6.6 optional internal source is used, the Source 1 inputs are not available, and the switch next to it is set to "Internal Source Output." If the Optional Internal Source is not installed, or if you want to utilize the Source 1 inputs, set the switch to "Input" and reconfigure Source 1 in the Source Setup Menu. Connect each source output using quality RCA signal cables. Connect the Left and Right Audio outputs from each source to the corresponding inputs on the CAM6.6 controller. Label each cable with the name of the selected source and the Source Audio input number located on the CAM6.6.

Source IR Connections

Each source component has a designated IR port on the back of the CAM6.6. This IR port is directly above the Source Audio Input Connections.

- 1. Using an IR emitter (the Russound 845.1 is recommended), attach the end of the emitter with the 1/8" plug to the IR emitter port above the source input.
- **2.** Remove the adhesive back at the other end of the emitter and attach the emitter over the source component's IR window.
- **3.** In order to control this source component with IR, the source must be selected at the keypad receiving the command.

RUSSOUND #845.1 MICRO EMITTERS TO IR CONTROLLED EQUIPMENT



RCA Cable

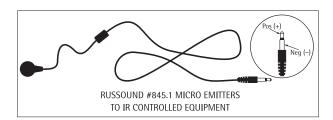
CAM6.6 with Optional Internal Source - XM satellite radio

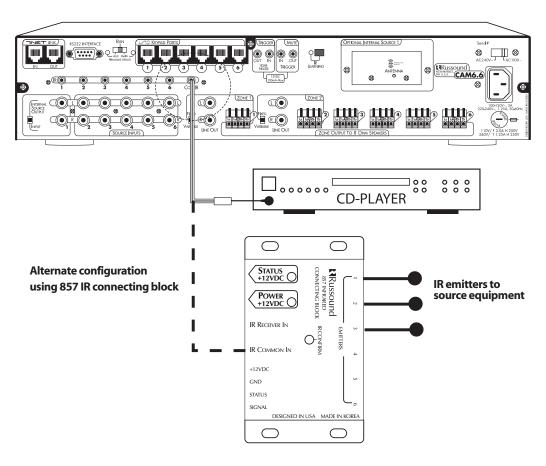
Common IR Connection

Common IR Connections

The Common IR jack on the rear of the CAM6.6 allows control of any source equipment without that source being selected on the keypad. The connection for the COM IR jack is made using an

IR emitter with a 1/8" plug. The Russound 845.1 single IR emitter is recommended, or use an IR connecting block such as the Russound 857 which allows multiple units to be controlled through the COM IR Port.





Speaker Connections

The speakers are connected to the CAM6.6 using modular snap connectors. Each of these color-coded connectors is designated for the speaker set of a particular amplified zone. To avoid confusion, connect one zone speaker set at a time starting with Zone 1, taking care to keep zone and speaker wire identities straight. Note: An 8 Ohm minimum speaker is required for each amplified output.

- **1**. Pull the speaker wire conductors apart so they're separated for the first two inches from their ends.
- **2.** Using a wire stripper, remove 1/4 inch of insulation from each conductor. Twist the strands in each conductor into tight spirals.
- **3**. Remove the modular four-color connector for Zone 1. The color code is as follows:

WHITE -- L+ (left channel positive)

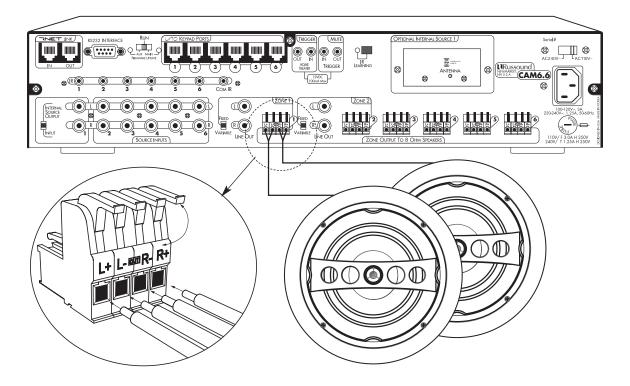
GREEN -- L- (left channel negative)

BLACK -- R- (right channel negative)

RED -- R+ (right channel positive)

Lift the black lever for each connection until it locks open and insert the proper speaker wire, matching channel and polarity for all four wires. Snap the lever down. Insert the modular connector into its designated output on the back of the CAM6.6.

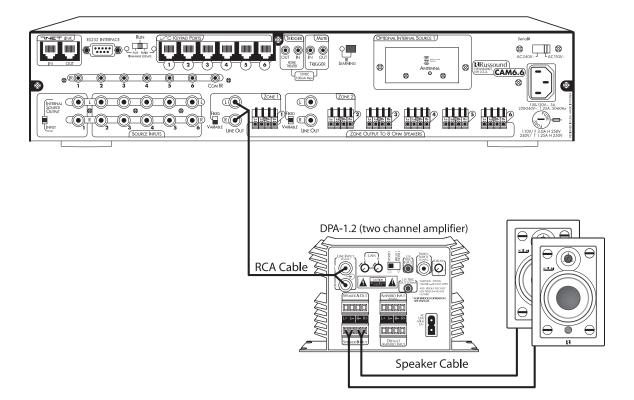
4. Complete the same steps for the remaining zones. Label each set of speaker wires with the zone and location.



Zone Fixed/Variable Audio Outputs

The CAM6.6 has two Zone Audio outputs, on Zone 1 and Zone 2. Each of these zone audio output connections features a stereo line out RCA connection plus a switch to allow for either a fixed or a variable line level output. When set to Variable, the keypad volume level affects this output. In the Fixed position, keypad volume level will not change the output level.

The fixed or variable audio outputs can be used if additional amplification is desired (e.g., Russound DPA-1.2 two-channel amplifier). Use quality RCA signal cables to ensure a constant quality audio signal.



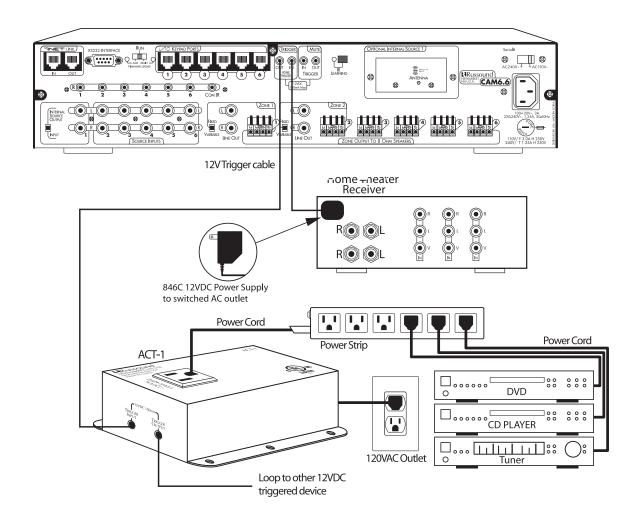
12VDC Home Theater Trigger In

This 12VDC Trigger input is used to control Power Management of the audio sources possibly being shared with a home theater system. When the last zone on the CAM6.6 is turned off, 12VDC presence to the trigger input will prevent the sources that are on from being turned off. The connections for the trigger are made using a two-conductor cable with 1/8" male mini-plug. The tip is positive (+) and the sleeve is negative (-).

12VDC Home Theater Trigger In/Out

12VDC 100mA Trigger Out

The 12VDC 100mA trigger out can be used to engage any 12VDC trigger device or component such as the Russound ACT-1 triggered outlet. The connections for the trigger out are made using a two-conductor cable with 1/8" male mini-plug jacks at each end. The tip is positive (+) and sleeve is negative (-).



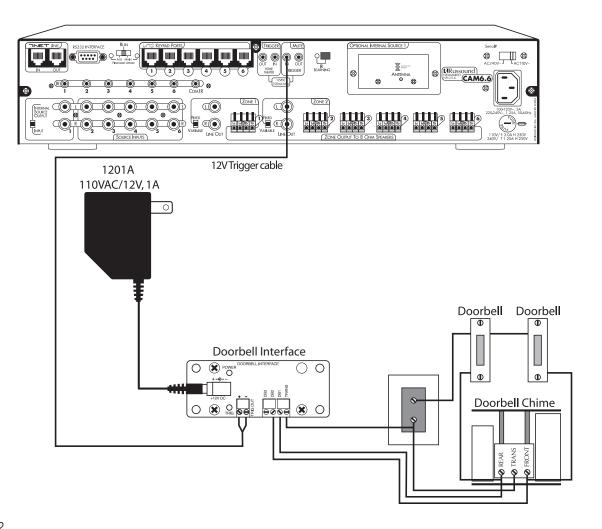
12VDC Mute Trigger In/Out

12VDC Mute Trigger In

When 12VDC is applied to the Mute Trigger In, the system will fully mute any source connected to the Source Audio Input. The connections for the trigger are made using a two-conductor cable with 1/8" male mini-plug jacks. The tip is positive (+) and sleeve is negative (-). This allows for the connection of an external or muting device. The CAM6.6 can be programmed to mute audio for one or all zones as preferred when the 12VDC is applied.

12VDC Mute Trigger Out

Mute Trigger Out 12VDC output is used for triggering an external amplifier, muting device or other component dependent on the Mute Trigger In 12VDC. The connections for the output are made using a two-conductor cable with 1/8" male mini-plug jacks at each end. The tip is positive (+) and sleeve is negative (-). The default setting for the Mute Trigger Out provides 12VDC whenever 12VDC is applied to the Mute Trigger In.



RNET Link In and Link Out

The RNET Link In and Link Out is used to connect two or more CAM6.6 or CAV6.6 controllers. The connection is made using a CAT-5 patch cable from the Link Out of the master CAM6.6 and into the Link In of the next controller. Along with RNET data signals, the RNET Link In and Link Out jack passes the six source IR signals. These are only for source-specific IR remote repeating, not codes initiated from the controller's internal IR library. The CAT-5 patch cable should not exceed 18 inches in length to avoid potential cross-talk between the source-specific IR repeating signal lines.

The RNET Link In and Link Out is also used to connect the CAM6.6 to other Russound products with RNET.

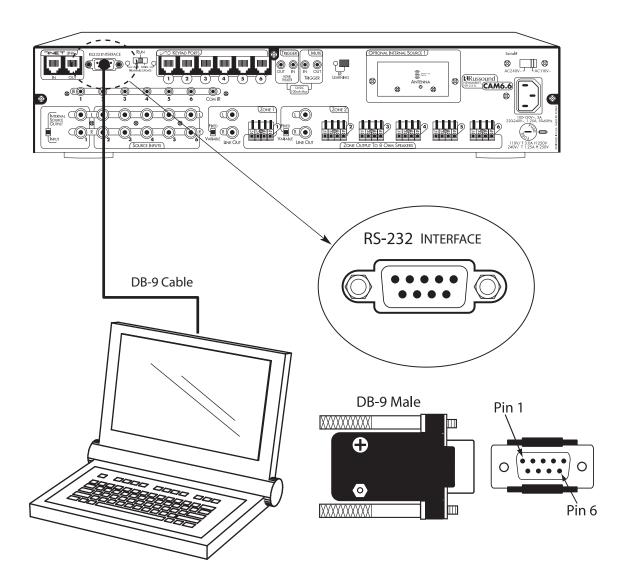
Note: If two or more CAM6.6 or CAV6.6 controllers will be connected using the RNET Link In and Link Out ports, each controller must have a unique Controller ID prior to being connected through the RNET ports. The Controller ID assignment must be performed during the Controller Setup section of the Installation menu.

Connection shows: flat side on top push-clip on the bottom CAM6.6 (Controller ID 1) CAV6.6 (Controller ID 2) CAV6.6 (Controller ID 2)

RS-232 Interface

The CAM6.6 supports RS-232 communication with various third party automation systems or PC for programming of the controller. The RS-232 com port is located on the back of the CAM6.6 and uses a DB-9 cable connection. For

RS-232 protocol and the backup PC application, see the Document Center at www.russound.com. Look for the Technical Documents under Multi-source/Multi-room products.



Optional Internal Source - XM Tuner Antennas

XM Antenna

Connect the included XM antenna for XM reception to the back panel of the XM module. The antenna comes with 20 feet of cable. If this length is not sufficient, there are aftermarket antenna kits available for custom lengths. Position the antenna near a south-facing window to receive the best signal from a satellite or terrestrial signal.

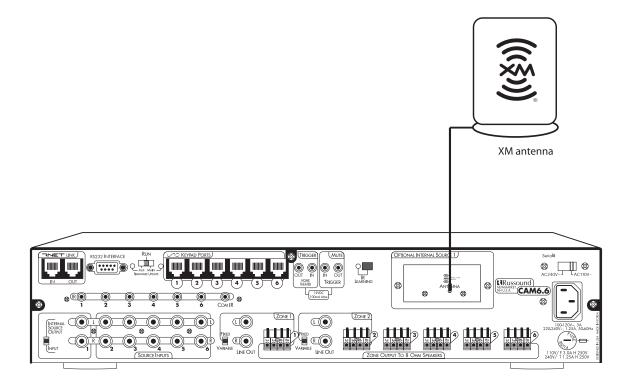
The antenna may also be attached to an external wall by sliding the slots on the back of the antenna onto four screws mounted on an exterior wall. Establish the best receiving position for the antenna before attaching it to the wall.

XM Signal Strength Mode

To test the XM reception, turn the unit on. When the XM radio is powered for the first time, the XM service will start playing XM Channel 1, a preview/promotional channel. Verify that Channel 1 is playing by viewing the channel number on the keypad display. Enter Signal Strength Mode by pressing and holding the Stop button on the UNO-S2 keypad. The display shows one of the following:

GOOD SIGNAL Signal strength good MARGINAL SIG Signal strength marginal POOR SIGNAL Signal strength poor Loss of signal

Adjust the antenna until GOOD SIGNAL is displayed. Press Stop to exit Signal Strength Mode.



INSTALLERINITIAL INSTALL TEST

Before proceeding to the system programming section, it's important to conduct an initial test to determine that the hardware components are working properly.

- 1. Connect the speaker wires from Zone #3 to the CAM6.6 Zone #3 speaker output connectors.
- 2. Connect an UNO-S1 or UNO-S2 keypad to Keypad Port #3 on the rear of the CAM6.6.
- **3.** Connect a source to the Source #3 Input on the CAM6.6 using RCA Audio patch cables.
- **4.** Plug a supplied 845.1 IR emitter into the Source #3 IR Output Jack and adhere the emitter end to the source equipment's IR window.
- **5.** Plug in the main power cords for the CAM6.6 and the source.
- **6.** Turn on the main power switch on the CAM6.6 and the source.
- **7.** Manually command the source to provide audio or use the source remote control.
- **8.** Press the power button on the UNO-S1 or UNO-S2 keypad and select Source #3.

Congratulations – you should now hear the source through the speakers in Zone #3.

If there is no sound, follow these diagnostic steps:

- **1.** Check the source to see that it is operating properly.
- **2.** Check the RCA Audio cable connections from the source to the Source #3 Input on the CAM6.6.
- **3.** Check the speaker connections and verify that they are correct and are connected to the Zone #3 speaker outputs.
- **4.** Check to see that the keypad is connected to the Zone #3 Keypad Port and verify the CAT-5 is properly terminated at both ends.

If none of these steps produce successful results, call Russound Tech Support for further assistance.

INSTALLER SYSTEM PROGRAMMING OVERVIEW

This manual includes items that are designed to assist in the programming process.

Forms (Pages 49-51)

Three blank reproducible forms are included as planning tools when determining sources, settings and zone preferences. The Source and Zone Information forms and the Macro Editor form should be completed before programming, and referred to during the Installation Menu process. This speeds up programming time and reduces missed or incorrect entries. These forms also serve as system reference documents if future troubleshooting is needed.

IR Device Codes (Pages 80-82)

This list of command type IR device codes reflects the built-in IR codes in the CAM6.6 library. During programming, these codes will be entered for each source at the "Device Code" prompt. If a code is not listed for a source, the Learn IR procedure is available to learn in and centrally store IR codes. (Note: Device codes for Phono, DAT and Tape are Learned Only)

Key Functions (Pages 83-104)

This list of key functions identifies what IR codes are supported for each command type (source) by the built-in library. "Learned Only" indicates that this function is not supported and must be learned into the CAM6.6. This list of key functions reflects the different available key functions associated with what you see on the LCD panel when performing the Key Configuration procedure in the Installation Menu. The list of functions corresponds with the command types above (e.g., Tuner, CD player, etc.).

Source Names (Pages 105-106)

A list of assignable Source Names is provided for advance selection and source form completion before programming.

Flow Charts (Pages 67-79)

Installation Menu flow charts provide a graphical representation of the programming process.

Installation Menu (Pages 52-66)

The Installation Menu provides the step-by-step complete programming procedure for the keypad and the controller.

Although you can begin programming at any point within the Installation Menu, the following sequence is recommended for initial installations, as it progresses from the most basic requirements to the more advanced features.

1. Controller Setup (CTRLR SETUP) (Page 62)

This procedure sets the controller ID number within the system. This number must be manually set when multiple CAM6.6's are linked through RNET within one system. This procedure is not necessary for systems with only one CAM6.6.

2. Number of Sources (# of Sources/SOURCE SETUP) (Page 61)

This procedure sets the number of sources used in the system. This prevents the user from selecting a source input that is not used.

INSTALLERSYSTEM PROGRAMMING OVERVIEW

3. Basic Setup (SOURCE SETUP) (Pages 55-56)

This procedure is mandatory to set up each source for keypad source control and is the cornerstone of the programming process.

4. Peripheral Setup (Pages 53-55) (FOR OPTIONAL INTERNAL SOURCE)

This procedure provides setup and naming procedures for the XM tuner. It includes assigning a custom name to a memory preset or bank.

5. Learn IR (Page 64-65)

This procedure is used when the source-specific IR code is not found in the built-in IR code library. This allows IR commands to be learned into the system and centrally stored.

6. Macro Editor (Page 65-66)

This procedure compiles multiple IR keycodes to be initiated by a single button press. One macro can have up to 10 commands, including other macros, and up to 132 macros can be entered.

7. Source Volume Trim (SOURCE SETUP) (Page 58)

This procedure matches audio output signals for all sources for seamless switching.

8. Numeric IR (SOURCE SETUP) (Pages 58-60)

This procedure sets up control of a source that supports direct numeric commands.

9. Key Configuration (SOURCE SETUP) (Pages 57-58)

This procedure customizes individual key functions on a per-zone basis for source control.

10. Power Management (Pages 62-64)

This function incorporates IR macro commands to automatically control the power state of the sources when the system is in use or when a home theater is sharing sources.

11. Zone Volume Trim (ZONE SETUP) (Page 61)

This procedure limits the maximum volume allowed in a zone, regardless of keypad volume adjustment.

12. System On Enable (SYSON ENABLE/ZONE SETUP) (Page 61)

This feature allows a zone to join or opt out of an "all on" command.

13. Party Enable (ZONE SETUP) (Page 62)

This feature allows a zone to join or opt out of Party Mode participation.

14. Master Enable (ZONE SETUP) (Page 62)

This feature allows a zone the option of becoming a Master keypad in Party Mode.

15. Mute Enable (ZONE SETUP) (Page 62)

This feature enables a zone to allow or to mute audio.

INSTALLER SETUP FORMS

Source Information Form

| | Source 1 | Source 2 | Source 3 | Source 4 | Source 5 | Source 6 |
|----------------------------------------|---------------|----------|----------|----------|----------|----------|
| Source Name | <xm>></xm> | | | | | |
| Manufacturer | Russound | | | | | |
| Model # | N/A | | | | | |
| IR Command Type * | Peripheral | | | | | |
| IR Device Code (learned or 4-digit) | N/A | | | | | |
| Numeric IR (Y or N) | Z | | | | | |
| Highest Number | N/A | | | | | |
| Auto Play (Y or N) | Z | | | | | |
| Source Volume Trim (dB) -16dB<>0dB | | | | | | |
| Source Select Command | | | | | | |
| Power Mgmt Power On Command | N/A | | | | | |
| Power Off Command | N/A | | | | | |

*IR Command Type, e.g., Cable, DVD, Tuner, CD, etc.



Zone Information Form

| lute Enable | Z | Z | Z | Z | N | Z |
|-------------------------------------|-------------|-------------|-------------|-------------|----------|-------------|
| Mut | | | | | | |
| Master Keypad Enable | z | z | z | z | Z | z |
| Master Keypad Enable | > | > | > | > | Y | > |
| ty de ble | z | z | z | z | Z | z |
| Party Mode Enable | > | > | > | > | ⋆ | > |
| on e | 7 | 7 | 7 | 7 | 7 | 7 |
| System On Enable | ∠ | ∠ | ∠ | ∠ | ا | ∠ |
| Sys | | | | | • | |
| Zone Volume Trim -16dB <> 0dB | | | | | | |
| Zone Volume Trim :16dB <> 0dB | | | | | | |
| Zone - -16dE | | | | | | |
| | | | | | | |
| Zone Name | | | | | | |
| ne N | | | | | | |
| Zo | | | | | | |
| oer | | | | | | |
| an I | 1 | 2 | 3 | 4 | 5 | 9 |
| Zone Number | | | | | | |
| Ž | | | | | | |

(Default setting is bolded)

INSTALLER SETUP FORMS

Macro Editor Form

| Macro ID Number | Macro ID Number | |
|-----------------|-----------------|--|
| | | |
| Macro Name | Macro Name | |
| | | |
| Command 1 | Command 1 | |
| Command 2 | Command 2 | |
| Command 3 | Command 3 | |
| Command 4 | Command 4 | |
| Command 5 | Command 5 | |
| Command 6 | Command 6 | |
| Command 7 | Command 7 | |
| Command 8 | Command 8 | |
| Command 9 | Command 9 | |
| Command 10 | Command 10 | |
| | | |
| Macro ID Number | Macro ID Number | |
| | | |
| Macro Name | Macro Name | |
| | | |
| Command 1 | Command 1 | |
| Command 2 | Command 2 | |
| Command 3 | Command 3 | |
| Command 4 | Command 4 | |
| Command 5 | Command 5 | |
| Command 6 | Command 6 | |
| Command 7 | Command 7 | |
| Command 8 | Command 8 | |
| Command 9 | Command 9 | |
| Command 10 | Command 10 | |

INSTALLERINSTALLATION MENU OVERVIEW

There are three item types in the installation menu:

Menu Item (m) – Acts as a folder that holds procedures and/or feature parameters.

Procedure (p) – A sequence of feature parameters to perform a guided operation, such as configuring an UNO key. Once you begin a procedure, the system will prompt for the needed information to complete the task.

Feature (f) – The actual parameters (settings) that will change the system configuration.

The following keys on the **UNO-S2** keypad are used to navigate and make changes while using the installation menus:

To enter the Installation Menu, press and release the Setup Button (located on the keypad's right side) while in normal operating mode. The Setup Button is used to "back out" of the Installation Menu one level at a time. If you are performing a procedure, the Setup Button brings you back to the beginning of the procedure. Once you have reached the top level of the Installation Menu, pressing the Setup Button brings you back to normal operating mode.

- Adjust feature setting (increment).
- Adjust feature setting (decrement).
- **᠑** Go to next menu / procedure / feature. Not available while performing a procedure.
- **❸** Go to previous menu / procedure / feature. Not available while performing a procedure.
- Enter menu / begin procedure / show current feature setting. While performing a procedure, it is also used to advance to the next sequential feature setting once the current feature has been viewed or adjusted.

UNO-S1 Keypad Five-Character Display

The UNO-S1 keypad abbreviates information as necessary to appear in its five-character display. In the following menu procedures, the UNO-S1 five-character abbreviation is shown in parentheses underneath the 12-character version.

The following items make up the Installation Menu:

PERIPH SETUP (PerSu) SOURCE SETUP (SrcSu) ZONE SETUP (ZonSu) CTRLR SETUP (CtlSu) POWER MGT (PwMgt) LEARN IR (LrnIR) MACRO EDITOR (MacEd) SYSTEM INFO (SInfo)

PERIPH SETUP (PerSu)

Peripheral Setup allows the CAM6.6's optional internal source to be configured.

The following items can be found in the PERIPH SETUP menu:

MEM NAME (MemNm) BANK NAME (BnkNm) CONTROLLR ID (Ctlld) DIAGNOSTICS (Diags) FACTORY INIT (Finit) SYSTEM INFO (Sinfo)

MEM NAME (MemNm)

NOTE: A memory preset must be created and saved before it can be named. Once it is saved, the preset's Tuner #, Bank # and Memory # must be entered in the following procedure.

This procedure accesses a name entry field to enter a custom name for a memory preset. **See Periph Setup - Flow Chart page 67**

1. BANK # – Select the BANK # of the memory preset. (Bank#)

2. **MEMORY** # – Select the MEMORY # of the preset to be named. (Mem #)

3. MEMORY NAME – Use the up/down keys to select a character and left/right keys to change a character position. A blinking cursor indicates the

to change a character position. A blinking cursor indicates the placement of the character being entered. Names can be from 1

to 12 characters in length.

BANK NAME (BnkNm)

This procedure accesses a name entry field to enter a custom name for each of the tuner's six banks. **See Periph Setup - Flow Chart page 67**

1. BANK # – Select the BANK # of the memory preset. (Bank#)

2. Bank name –

(BnkNm)

Use the up/down keys to select a character and left/right keys to change a character position. A blinking cursor indicates the placement of the character being entered. Names can be from 1

to 12 characters in length.

CONTROLLR ID (Ctlld)

This procedure is used to identify the controller(s) that the tuner will respond to. **See Periph Setup** - Flow Chart page 68

1. Controller:# – Select controller ID of controller that will control tuner.

(Ctlld)

2. All controllers – Select if all controllers in system can control the tuner.

(All)

DIAGNOSTICS (Diags)

This procedure is for factory use only. See Periph Setup - Flow Chart page 68

FACTORY INIT (FInit)

NOTE: This procedure returns the tuner to its factory settings and erases all user settings.

This procedure allows the erasure of all programmed settings and returns them to the factory default settings. **See Periph Setup - Flow Chart 68**

1. Are you sure? – Confirmation of YES or NO is required to proceed. A NO

(Sure?) selection returns to the top of the Factory Initialization menu.

A YES selection begins the initialization.

2. Please Wait – Message shows during the initialization process.

3. Cycle Power – When initialization is complete, cycle power to the unit.

SYSTEM INFO (SInfo)

System Info shows the tuner's manufacturing build properties. See Periph Setup - Flow Chart 68

BUILD TIME (BTime) 🕑 BUILD DATE (BDate) 🕑 VERSION (Ver) 🕑

1. BUILD TIME Displays the firmware Build Time of the tuner.

(BTime)

2. BUILD DATE Displays the firmware Build Date of the tuner.

(BDate)

3. VERSION Displays the firmware version of the tuner.

(Ver)

SOURCE SETUP (SrcSu)

Source Setup allows the system's sources to be configured.

The following items can be found in the SOURCE SETUP menu:

BASIC SETUP (BasSu) (BeasSu) (SRC VOL TRIM (SrcVT) NUMERIC IR (NumIR) SRC SEL CMD (SrcSC) # OF SOURCES (#Srcs)

BASIC SETUP (BasSu)

NOTE: The BASIC SETUP procedure should be performed for each source before proceeding to other source setting changes.

NOTE: If the CAM6.6 has an optional internal source installed, it is pre-configured as Source 1, with source name <XM> and command type Peripheral.

This procedure uses built-in source "templates" to quickly and easily configure the source settings needed for basic operation of the source component. Before performing BASIC SETUP, connect the source components to the CAM6.6 as outlined in the Source Connections section. Also be sure that all sources are powered on. See Basic Setup - Flow Chart 69

1. SOURCE NUM -Select the source to be configured.

(Src #)

2. SOURCE NAME -Select the name for the source (e.g., DVD, Aux 2, Jazz, etc.).

(Name)

3. COMMAND TYPE -Select the type of command template (e.g., CD, TV, etc.). Selecting (CmdTp)

the command type template will tell the CAM6.6 how to configure the

key's command and text for the source component.

a. Selected: Learned IR

(LrnIR)

Choose Learned IR if the pre-programmed IR code library does not support the source component.

i. LEARNED SRC -(LnSrc)

Select the learned source bank to be assigned to the source component. (See Learning IR procedure for instructions on how to learn IR codes.)

ii. TEMPLATE TYP -(TType)

Select the template type to define what type of source component is being used. (This will tell the CAM6.6 how to configure the key commands and text for the source component if it is a learned source.) Procedure advances to USE NUM IR? (step 7).

b. Selected: Unassigned

(Unasg)

The template for the selected source is cleared. (All key assignments and other source settings will be erased.) Procedure advances to SAVE CHANGES (step 10)

c. All Other Selections:

Procedure advances to DEVICE CODE (step 4)

4. DEVICE CODE -(DevCd)

Enter source component code number listed in this manual's Reference section.

5. TEST IR? -(TstIR)

If "Yes" is selected, the CAM6.6 sends a power command to the source component. If "No" is selected, the procedure advances to USE NUM IR? (step 7)

6. SUCCESS? -(OK?)

If the power to the source component was turned off, select "Yes" otherwise select "No." By selecting "No" the Procedure returns to DEVICE CODE (step 4) to allow selection of another code number from the provided list.

7. USE NUM IR? -(NumIR)

Indicates the source component has numeric scrolling, such as multi-disc CD player (See NUMERIC IR Setup Procedure for advanced settings or more information). "No" advances menu to AUTO PLAY (step 9).

8. HIGHEST NUM -(High#)

Enter the highest possible number; for example, a 100-disc CD player would have a max number of 100.

9. AUTO PLAY? -(AtoPI)

"Yes" tells the CAM6.6 to issue a PLAY command whenever the source is selected for listening. This option is skipped if the source type (COMMAND TYPE) chosen does not have a PLAY command associated with it.

10. SAVE CHANGES? -(Save?)

Select "yes" to save changes. Procedure returns to SOURCE NUM to allow configuration of another source.

KEY CONFIG (KeyCf)

(MacID)

Key Configuration defines zone-specific key functions for each source. **See Key Config. - Flow Chart** page 70

1. ZONE NUM -Select the zone the key will be configured for. Changes are made (Zone#) for that zone only; default setting is "All Zones." 2. SOURCE NUM -Select the source the key will be configured for. (Src #) Using \oplus or \bigcirc , select the keypad key to be configured. 3. SELECT A KEY -(SelKy) 4. KEY TYPE -Either "Key Press," "Key Hold" or "Both" will activate the command. (KeyTp) 5. KEY NAME -Name that appears on the keypad display when the command is (KeyNm) activated. 6. COMMAND TYPE -Select the type of source command (e.g., CD, TV, etc.). (qTbmO) a. Selected: Learned IR -Choose Learned IR if the pre-programmed IR code library does (LrnIR) not support the source component. i. LEARNED SRC -Select the learned source bank to be assigned to the source component. Procedure advances to KEY FUNCTION (step 8) (LnSrc) b. Selected: Unassigned The key configuration is cleared. Procedure advances to SAVE CHANGES (step 9) (Unasg) c. Selected: Default Default selects the same device type and device code previously (Deflt) setup in BASIC SETUP. Procedure advances to KEY FUNCTION (step 8) d. Selected: Macro: (To build macros, see Macro Editor page 65) i. MACRO -Macro loads a series of commands which are processed when (Macro) activated. ii. MACRO ID -Enter the macro ID number. Menu advances to SAVE CHANGES

e. All Other Selections: Procedure advances to DEVICE CODE (step 7)

(step 9)

7. DEVICE CODE – Enter source component code number listed in this manual's Reference section.

8. KEY FUNCTION – Select a function for the button.

(KeyFn) 57

9. SAVE CHANGES? -

Select "yes" to save changes. Procedure advances to ZONE NUM (step 1)

(Save?)

SOURCE NAMES (SrcNm)

This procedure allows the installer to customize the source names for the sources attached to the CAM6.6. See Source Names/Vol Trim - Flow Chart page 71

1. SOURCE NUM -Select the source number this name will be assigned to.

(Src #)

2. SOURCE NAME -Select the name. SOURCE NUM will reappear on the LCD panel;

repeat the instructions for each source to be labeled. (Name)

SRC VOL TRIM (SrcVT)

This procedure allows the installer to adjust the output level of an individual source. The output volume is adjustable by 16dB. At 0dB (-3dB default setting), the volume is at max output; at -16dB the volume is at the lowest setting possible for that source only. See Source Names/Vol Trim - Flow Chart page 71

1. SOURCE NUM -Select the source number this level will be set for.

(Src #)

2. TRIM LEVEL -0 dB is max output volume, -16 dB is lowest setting.

(Trim)

NUMERIC IR (NumIR)

Numeric IR allows the installer to program source specific number functions (Channel 12, Disk 89, etc.). See Numeric IR - Flow Chart page 72

1. SOURCE NUM -Select the source number this function will be configured for.

(Src #)

2. USE NUM IR? -Tells the system whether the source component has numeric (NumIR)

scrolling, such as 100-disc CD player. A selection of "no" dis-

ables Numeric IR and advances to SAVE CHANGES

3. HIGHEST NUM -Enter the highest possible number; for example, the 100-disc CD

player would have a max number of 100. (High#)

4. NUMERIC TEXT -

(NmTxt)

Select Numeric descriptive text.

5. PREFIX CMD -

(Prefx)

Tells the system whether a command will be issued prior to the selection of the numerical value (e.g., Disc 1,2). If "no,"

procedure advances to SUFFIX CMD (step 9)

6. COMMAND TYPE -

(CmdTp)

Select the type of command (e.g., CD, TV, etc.).

a. Selected: Learned IR

(LrnIR)

Choose Learned IR if the pre-programmed IR code library does

not support the source component.

i. LEARNED SRC -

(LnSrc)

Select the learned source bank to be assigned to the source component, Procedure advances to KEY FUNCTION (step 8)

b. Selected: Unassigned

(Unasg)

The numeric IR Prefix command is cleared. Procedure advances

to SUFFIX CMD (step 9)

c. Selected: Default

(Deflt)

Default selects the same device type and device code previously setup in BASIC SETUP. Procedure advances to KEY FUNCTION

(step 8)

d. Selected: Macro:

i. MACRO -(Macro)

(To build macros, see Macro Editor page 65)

Macro loads a series of commands which are processed when

Enter the macro ID number. Menu advances to SUFFIX CMD (step 9)

activated.

ii. MACRO ID -(MacID)

Procedure advances to DEVICE CODE (step 7)

e. All Other Selections:

Source component code for IR control.

7. DEVICE CODE -(DevCd)

8. KEY FUNCTION -Select a function (Disc, etc.).

(KeyFn)

9. SUFFIX CMD -

(Sufix)

Tells the system whether a command will be issued after the selection of the numerical value (e.g., 1, 2 Enter). If "no," proce-

dure advances to SAVE CHANGES (step 13)

10. COMMAND TYPE -

(CmdTp)

Select the type of source command (e.g., CD, TV, etc.).

a. Selected: Learned IR

(LrnIR)

Choose Learned IR if the pre-programmed IR code library does

not support the source component.

i. LEARNED SRC -Select the learned source bank to be assigned to the source (LnSrc) component. Procedure advances to KEY FUNCTION (step 12)

b. Selected: Unassigned The numeric IR Suffix command is cleared. Procedure advances

(Unasg) to SOURCE NUM (step 1)

c. Selected: Default Default selects the same device type and device code previously

setup in BASIC SETUP. Procedure advances to KEY FUNCTION (Deflt)

(step 12)

d. Selected: Macro: (To build macros, see Macro Editor page 65)

i. MACRO -Macro loads a series of commands which are processed when

(Macro) activated.

ii. MACRO ID -Enter the macro ID number. Menu advances to SAVE CHANGES

(MacID) (step 13)

e. All Other Selections: Procedure advances to DEVICE CODE (step 11)

11. DEVICE CODE -Source component code for IR control.

(DevCd)

12. KEY FUNCTION -Select a function (Enter, Play, etc.).

(KeyFn)

13. SAVE CHANGES? -Select "yes" to save the changes.

(Save?)

SRC SEL CMD (SrcSC)

This procedure permits a command to be sent to the source component when the source component is initially selected. See Source Select Command & # Of Sources - Flow Chart page 73

1. SOURCE NUM -Select the source number this command will be configured for. (Src #)

2. COMMAND TYPE -Select the type of source command (e.g., CD, TV, etc.). (CmdTp)

a. Selected: Learned IR Choose Learned IR if the pre-programmed IR code library does

(LrnIR) not support the source component. i. LEARNED SRC -Select the learned source bank to be assigned to the source

(LnSrc) component. Procedure advances to KEY FUNCTION (step 4)

b. Selected: Unassigned The source select command is cleared. Procedure advances to (Unasg)

SAVE CHANGES (step 5)

c. Selected: Default Default selects the same device type and device code previously

(Deflt) setup in BASIC SETUP. Procedure advances to KEY FUNCTION

(step 4)

d. Selected: Macro: (To build macros, see Macro Editor page 65)

i. MACRO - Macro loads a series of commands which are processed when

(Macro) activated.

ii. MACRO ID – Enter the macro ID number. Menu advances to SAVE CHANGES

(MacID) (step 5)

e. All Other Selections: Procedure advances to DEVICE CODE (step 3)

3. DEVICE CODE – Source component code for IR control.

(DevCd)

4. KEY FUNCTION – Select a function (Play, Enter, etc.).

(KeyFn)

5. SAVE CHANGES? – Select "yes" to save the changes.

(Save?)

OF SOURCES (#Srcs)

At this field it is necessary to enter the number of sources used in the CAM6.6 system (1 to 6). This limits the sources displayed on the keypad in the normal running mode when the source button is pressed, but also limits source selections in the configuration menus. **See Source Select Command & # Of Sources - Flow Chart page 73**

ZONE SETUP (ZonSu)

NOTE: This procedure should be performed using the keypad installed in the zone to be configured. **See Zone Setup - Flow Chart page 74**

Zone Setup allows the installer to adjust properties of the UNO Keypad controlled CAM6.6 zone. This series of menus allows the system's zones to be configured for these properties:

ZON VOL TRIM (ZonVT) SYSON ENABLE (SysOn) PARTY ENABLE (PtyEn) MASTER ENABL (MstEn) MUTE ENABLE (MutEn)

1. ZON VOL TRIM - This feature allows the installer to adjust the output volume to

(ZonVT) each zone. -16 dB (lowest) to 0 dB (max)(-3dB default).

2. SYSON ENABLE - This feature is either disabled or enabled. If disabled (default), an

(SysOn) All On command activated from another zone will not turn on the

disabled zone. If enabled, an All On command activated from

another zone will turn on the enabled zone.

3. PARTY ENABLE - This feature is either disabled or enabled. If disabled, Party Mode (PtyEn) activation from another zone will not affect the disabled zone. If

enabled (default), the zone will participate with Party Mode.

4. MASTER ENABLE -(MstEn)

This feature is either disabled or enabled. If disabled, the zone cannot host a master keypad during Party Mode. If enabled (default), the zone has the option of hosting the Master keypad.

5. MUTE ENABLE - This feature is either disabled or enabled. It allows the option of (MutEn) enabling or disabling muting in a zone. If disabled, the zone will not mute. If enabled (default), the zone will be muted when a

mute signal is received.

CTRLR SETUP (Ctlld)

Controller Setup is the basic configuration of the controller. This setup menu selects the options for Controller ID and Factory Initialization. **See Controller Setup - Flow Chart page 75**

1. CONTROLLER ID - (Ctlld)

This defines the Controller ID for this system. The default is 1 but when multiple controllers are used, each additional controller ID must be sequential and unique and be set before being connected to the system. Note that the system must be restarted before the controller will assume the new ID.

2. FACTORY INIT - (FInit)

WARNING: This procedure returns the controller to its original settings - use with discretion.

Factory Initialization allows the installer to erase all programmed settings and returns the settings to the factory default settings. All settings including source equipment IR commands will need to be reentered. An "Are you sure?" prompt and a "no" response allows the installer to cancel the reset; a "yes" at the prompt will load factory/default settings.

POWER MANAGEMENT (PwMgt)

The CAM6.6 is capable of managing the power state of the connected source equipment. The power management is configured on a source-by-source basis.

All sources that have power management enabled are initialized by a "POWER ON" command/ macro. Power management is initialized when the first keypad is turned on or when the home theater trigger input has 12VDC present. The 12VDC trigger output is turned on when the first zone is turned on.

All sources that have power management enabled are turned off by the "POWER OFF" command after all zones have been turned off, with a timeout of five minutes. The 12VDC trigger output is turned off one minute after that. This timeout is postponed for as long as the home theater trigger input has 12VDC present. **See Power Management - Flow Chart page 76**

| | 9 |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. SOURCE NUM – (Src #) | Select the source number this feature will be configured for. |
| 2. POWER ON CMD – (OnCmd) | Tells the controller to turn on the selected source equipment (by SOURCE NUMBER) when any of the UNO System Keypads is turned on. If "no," procedure advances to POWER OFF CMD (step 6) |
| 3. COMMAND TYPE – (CmdTp) | Select the type of source command (e.g., CD, TV, etc.). |
| a. Selected: Learned IR (LrnIR) | Choose Learned IR if the pre-programmed IR code library does not support the source component. |
| i. LEARNED SRC – (LnSrc) | Select the learned source bank to be assigned to the source component. Procedure advances to KEY FUNCTION (step 5) |
| b. Selected: Unassigned (Unasg) | The Power On command is cleared. Procedure advances to POWER OFF CMD (step 6) |
| c. Selected: Default (Deflt) | Default selects the same device type and device code previously setup in BASIC SETUP. Procedure advances to KEY FUNCTION |

d. Selected: Macro: (To build macros, see Macro Editor page 65)

(step 5)

i. MACRO - Macro loads a series of commands which are processed when (Macro) activated.

ii. MACRO ID – Enter the macro ID number. Menu advances to POWER OFF CMD (MacID) (step 6)

e. All Other Selections: Procedure advances to DEVICE CODE (step 4)

4. DEVICE CODE – Source component code for IR control. (DevCd)

5. KEY FUNCTION – Select a function (Play, Enter, etc.). (KeyFn)

6. POWER OFF CMD -

(OfCmd)

Tells the controller to turn off the selected source equipment (by SOURCE NUMBER) when the last of the UNO System Keypads is turned off. If "no," procedure advances to SAVE CHANGES (step 10)

7. COMMAND TYPE -

(CmdTp)

Select the type of source command (e.g., CD, TV, etc.).

a. Selected: Learned IR

(LrnIR)

Choose Learned IR if the pre-programmed IR code library does not support the source component.

i. LEARNED SRC – (LnSrc)

•

Select the learned source bank to be assigned to the source component. Procedure advances to KEY FUNCTION (step 9)

b. Selected: Unassigned

(Unasg)

The Power Off command is cleared. Procedure advances to SAVE CHANGES (step 10)

c. Selected: Default

(Deflt)

Default selects the same device type and device code previously setup in BASIC SETUP. Procedure advances to KEY FUNCTION

(step 9)

d. Selected: Macro:

i. MACRO – (Macro) (To build macros, see Macro Editor page 65)
Macro loads a series of commands which are processed when

activated.

ii. MACRO ID – (MacID)

Enter the macro ID number.Menu advances to SAVE CHANGES

(step 10)

e. All Other Selections:

Procedure advances to DEVICE CODE (step 8)

8. DEVICE CODE -

(DevCd)

Source component code for IR control.

9. KEY FUNCTION -

(KeyFn)

Select Keypad function.

10. SAVE CHANGES? -

(Save?)

Select "yes" to save the changes.

LEARN IR (LrnIR)

This procedure allows IR commands to be learned into the system and be centrally stored in the main controller to let the system access the same IR codes that operate the source equipment.

NOTE: IR codes must be learned in by pointing the remote at the CAM6.6's REAR panel IR receiver only. **See Learn IR - Flow Chart page 77**

1. LEARNED SRC – (InSrc)

Select the source (Source 1-6 and Miscellaneous Learned IR (Misc)) whose commands will be learned into the controller.

64

2. KEY FUNCTION -

Select the function to be learned or deleted.

(KeyFn)

3. LEARN/DELETE -Select Learn IR Now or Delete IR. If Learn IR Now, a "USE

REMOTE" prompt appears. Point the learning remote at the (Ln/DI)

controller's IR window. If Delete IR, procedure returns to

LEARNED SRC (step 1)

4. TEST IR? -If "yes," sends the learned command to the source component (TstIR)

to test the IR. If the component responds, the IR test was a success. If the component does not respond the Code was not learned properly. If "no," menu goes back to LEARNED SRC

(step 1)

5. SUCCESS? -Asks if the IR test was a success

(OK?)

IF YES - If the test was a success, specify "yes" and proceed to

KEY FUNCTION (step 2)

IF NO - If the test was a failure, specify "no" and LEARN/DELETE (step 3) reappears on the display allowing another code to be

learned in.

MACRO EDITOR (MacEd)

This procedure is used to create a sequence of commands that are launched with one key touch or other event. Up to 132 macros can be created for the system, and each macro can contain up to 10 commands including other macros and delays. See Macro Editor - Flow Chart page 78

1. MACRO ID -Number of Macro up to 132 including any previously named (MacID) macros.

2. MACRO NAME -Name of Macro (optional).

(MacNm)

3. COMMAND NUM -Number of Command up to 10.

(Cmd#)

4. COMMAND TYPE -Select the type of source command (e.g., CD, TV, etc.).

(CmdTp)

a. Selected: Learned IR Choose Learned IR if the pre-programmed IR code library does

> (LrnIR) not support the source component.

i. LEARNED SRC -Select the learned source bank to be assigned to the source (LnSrc)

component. Procedure advances to KEY FUNCTION (step 6)

b. Selected: Unassigned Selected command and subsequent commands are cleared.

(Unasg) Procedure advances to COMMAND NUM (step 3)

c. Selected: Default Default selects the same device type and device code previously

setup in BASIC SETUP. Procedure advances to KEY FUNCTION

(step 6)

d. Selected: Macro:

(Macro)

(Deflt)

i. MACRO - A macro can "call" another macro if a sequence of more than 10

commands is needed.

ii. MACRO ID – Enter the macro ID number. Menu advances to COMMAND NUM

(MacID) (step 3)

e.Selected: Delay Enter a 1- to 60-second delay time to postpone delivery of the

(Delay) next command in the macro. Procedure advances to COMMAND

NUM (step 3)

f. All Other Selections: Procedure advances to DEVICE CODE (step 5)

5. DEVICE CODE – Source component code for IR control.

(DevCd)

6. KEY FUNCTION – Select a function (Play, etc.).

(KevFn)

SYSTEM INFO (SInfo)

System Info allows the installer to view the controller's manufacturing build properties. **See System Info - Flow Chart page 79**

#CONTROLLERS (#Ctls) BUILD TIME (BTime) BUILD DATE (BDate) VERSION (Ver)

1. #CONTROLLERS Displays the number of CAM6.6 controllers in the system.

(#Ctls)

2. BUILD TIME Displays the Software Build Time of the controller.

(BTime)

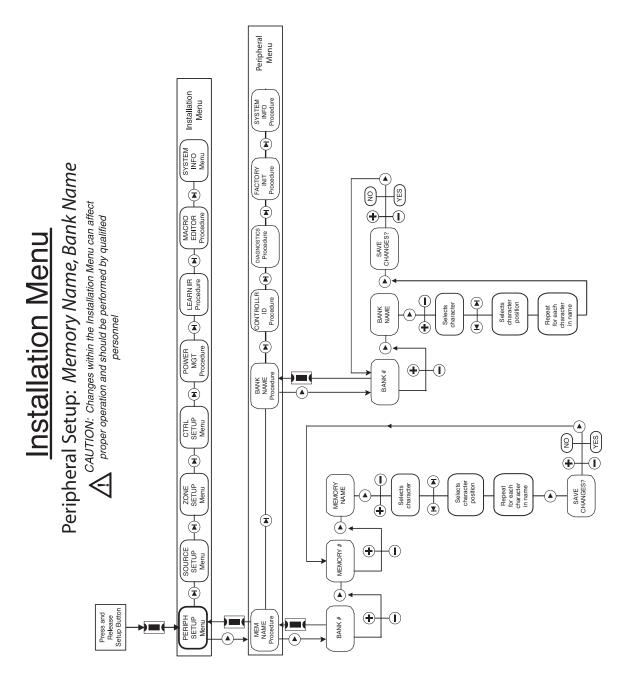
3. BUILD DATE Displays the Software Build Date of the controller.

(BDate)

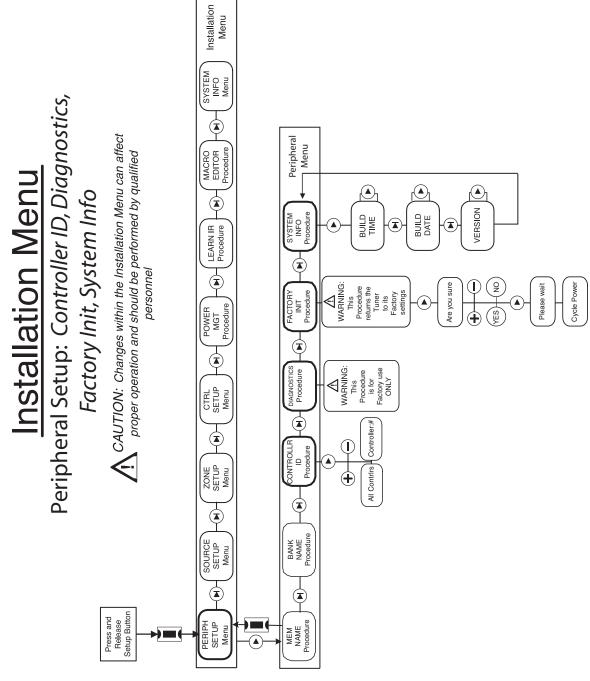
4. VERSION Displays the software version of the CAM6.6.

(Ver)

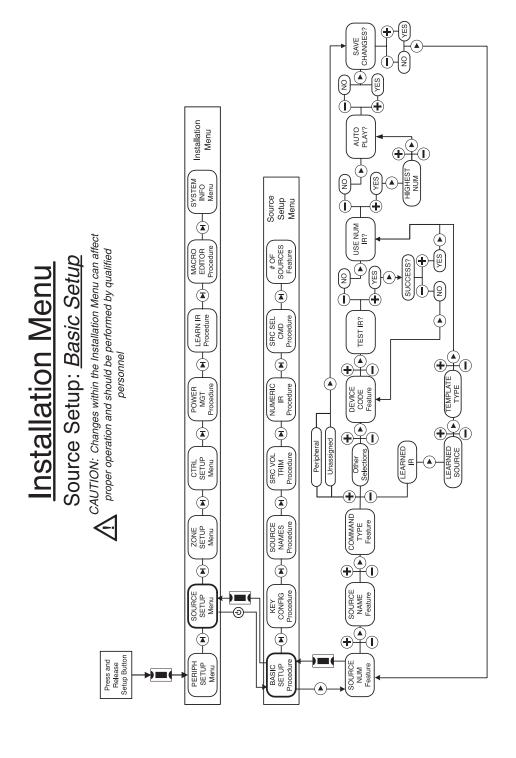
INSTALLER SETUP MENU FLOW CHARTS



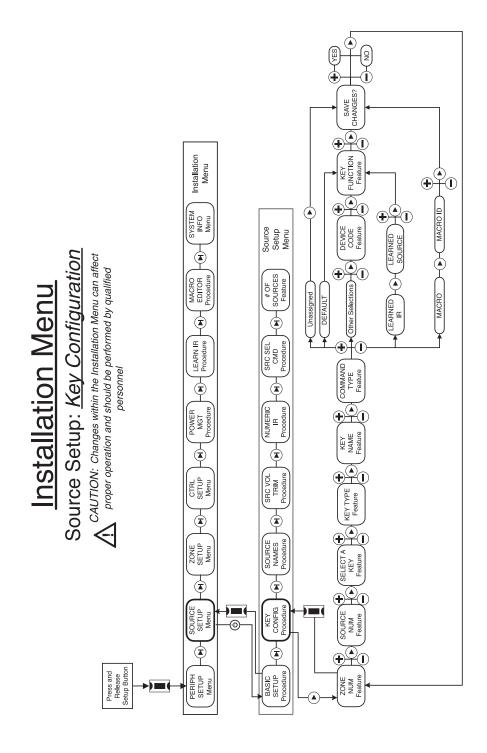
INSTALLERSETUP MENU FLOW CHARTS



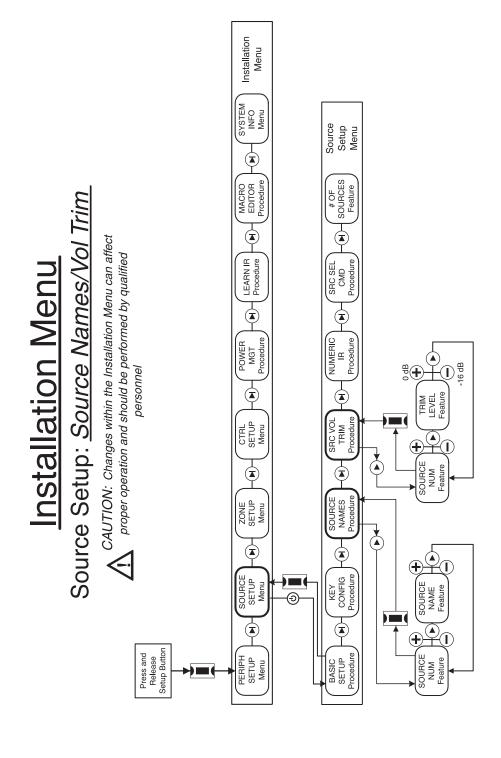
INSTALLER SETUP MENU FLOW CHARTS



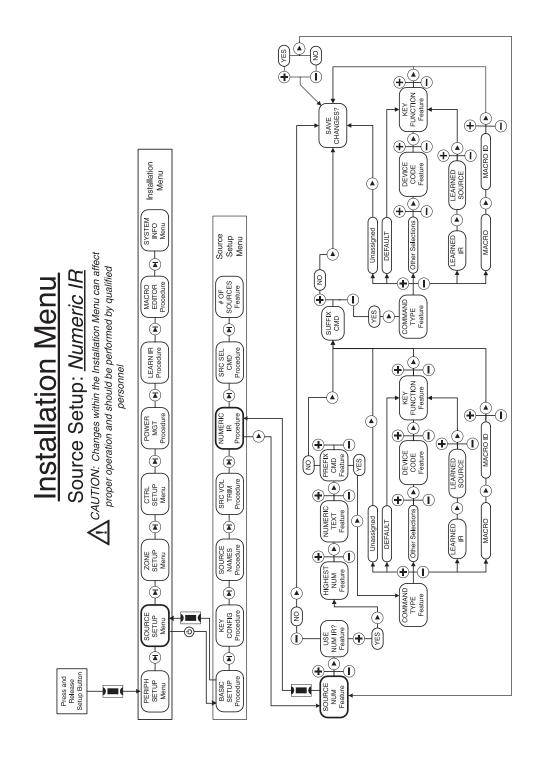
INSTALLERSETUP MENU FLOW CHARTS



INSTALLER SETUP MENU FLOW CHARTS



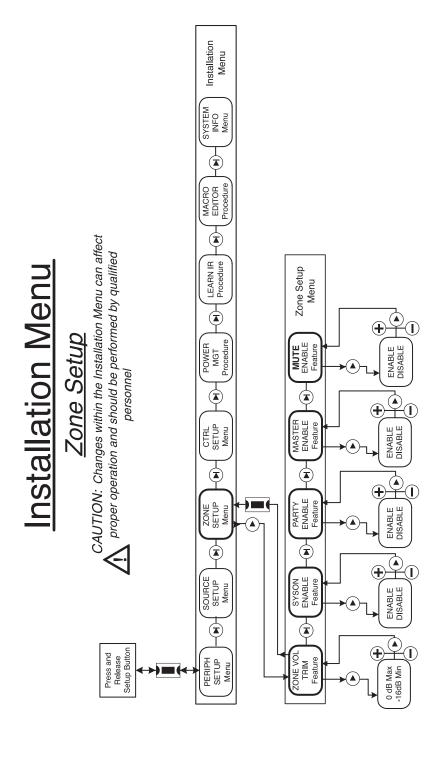
INSTALLERSETUP MENU FLOW CHARTS



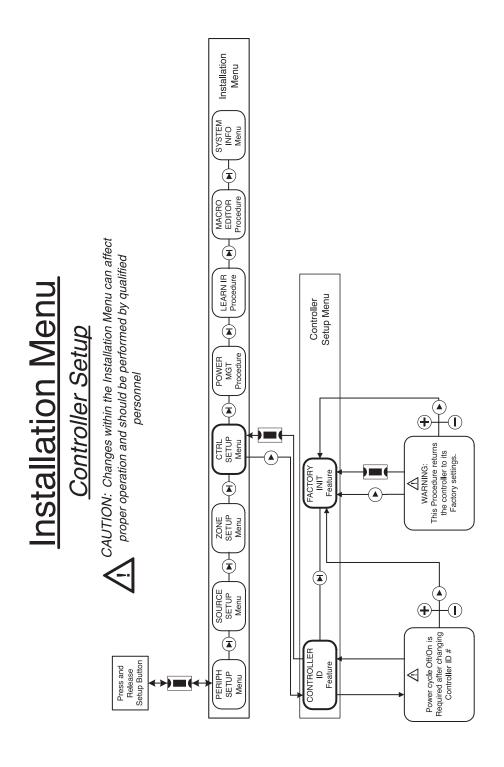
INSTALLER SETUP MENU FLOW CHARTS

Installation Menu SYSTEM INFO Menu Source Setup: Source Select Command & # Of Sources Source Setup Menu **(** # OF SOURCES Feature MACRO EDITOR Procedure **((** FUNCTION CHANGES? LEARN IR Procedure SRC SEL CMD Procedure CAUTION: Changes within the Installation Menu can affect proper operation and change is a proper op Installation Menu **((** NUMERIC IR Procedure POWER MGT Procedure **(+)** (I) ➂ personnel MACRO ID DEVICE CODE Feature SRC VOL TRIM Procedure CTRL SETUP Menu LEARNED Other Selections **(** ➂ Unassigned SOURCE NAMES Procedure MACRO ZONE SETUP Menu DEFAULT **(** ➂ \bigoplus KEY CONFIG Procedure SOURCE SETUP COMMAND TYPE Feature **(** ◂ ➂ Press and Release Setup Button BASIC SETUP Procedure PERIPH SETUP Menu SOURCE NUM Feature

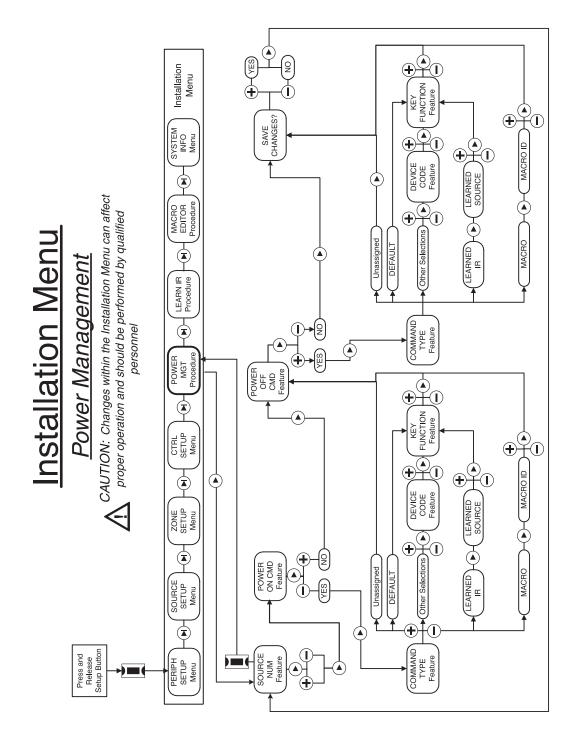
INSTALLERSETUP MENU FLOW CHARTS



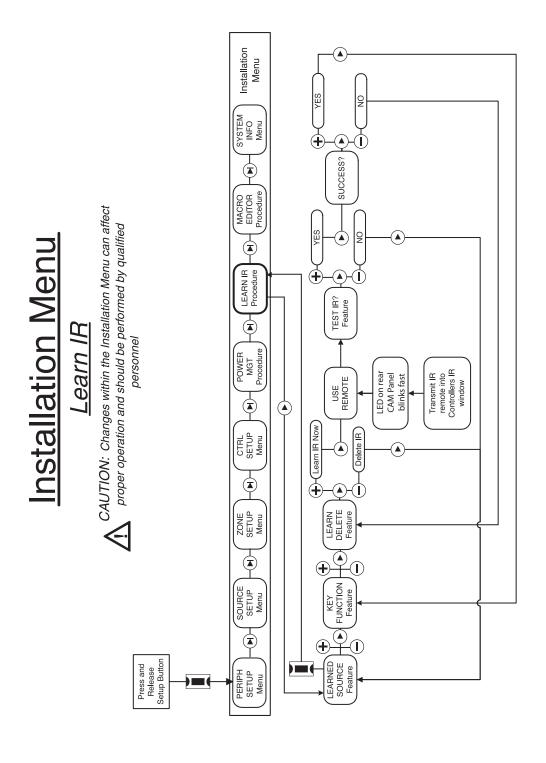
INSTALLER SETUP MENU FLOW CHARTS



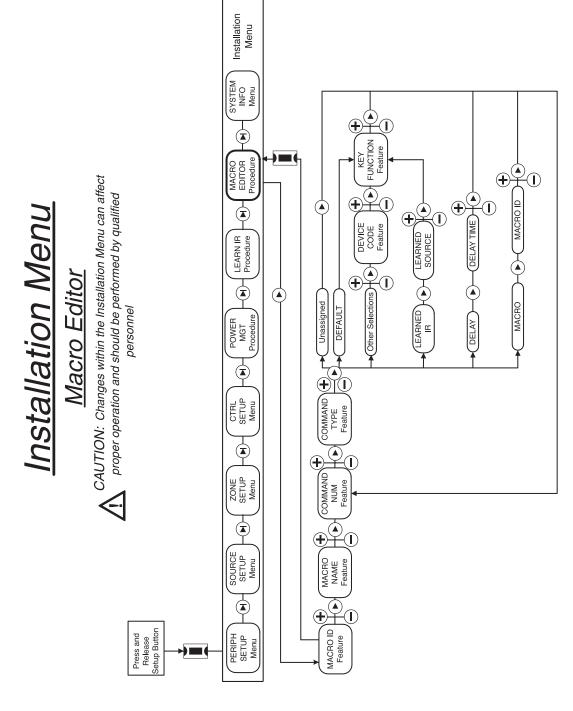
INSTALLERSETUP MENU FLOW CHARTS



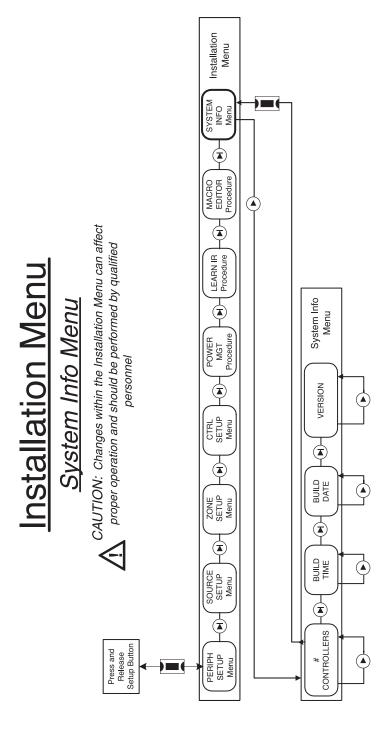
INSTALLER SETUP MENU FLOW CHARTS



INSTALLERSETUP MENU FLOW CHARTS



INSTALLER SETUP MENU FLOW CHARTS



INSTALLER IR CODES

| Device (| Codes | for | TVs: |
|----------|-------|-----|------|
|----------|-------|-----|------|

| Device Co | dues for TVs. |
|--------------------------------------------|------------------------------------------------------------------------------------------------|
| AOC | 0030, 0019 |
| Admiral | 0093, 0463 |
| Advent | 0761 |
| Aiko | 0092 |
| Aiwa | 0701 |
| Akai | 0030 |
| Alaron | 0179 |
| America Action | 0180 |
| Ampro | 0751 |
| Anam | 0180 |
| Apex Digital | 0748, 0765, 0767 |
| Audiovox | 0451, 0180, 0092, 0623 |
| Baysonic | 0180 |
| Belcor | 0019 |
| Bell & Howell | 0154, 0016 |
| Bradford | 0180 |
| Brockwood | 0019 |
| Broksonic | 0236, 0463 |
| CXC | 0180 |
| Candle | 0030, 0056 |
| Carnivale | 0030 |
| Carver | 0054 |
| Celebrity | 0000 |
| Changhong | 0765 |
| Cineral | 0451, 0092 |
| Citizen | 0060, 0030, 0056, 0092 |
| Concerto | 0056 |
| Contec | 0180 |
| Craig | 0180 |
| Crosley | 0054 |
| Crown | 0180 |
| Curtis Mathes | 0047, 0747, 1147, 1347, 0054, 0154, 0051, 0451, 0093, 0060, 0030, 0056, 0145, 0166, 0703, 0466 |
| | 0154, 0051, 0451, 0093, 0060, |
| | 0030, 0056, |
| | 0143, 0166, 0016, 0702, 0466 |
| Daewoo | 0451, 0019, 0092, 0623 |
| Daytron | 0019 |
| Denon | 0145 |
| Dumont | 0017, 0019 |
| Dwin | 0/20, 0//4 |
| Electroband | 0000 |
| Emerson | 0154, 0236, 0463, 0180, 0178, 0179, 0019, 0623 |
| | 0179, 0019, 0623 |
| Envision | 0030 |
| Fisher | 0154 |
| Fujitsu | 0179, 0683 |
| Funai | 0180, 0179, 0171 |
| Futuretech | 0180 |
| GE | 0047, 0747, 1147, 1347, 0051, 0451, 0093, 0178, 0021 0017, 0030, 0019 |
| O:L | 0451, 0093, 0178, 0021 |
| Gibralter | 0017, 0030, 0019 |
| GoldStar | 0030, 0178, 0056, 0019 |
| Gradiente | 0053, 0056 |
| Grunpy | 0180, 0179 |
| Hallmark | 0178 |
| Harley Davidson | 0179 |
| Harman/Kardon | 0054 |
| Harvard | 0180 |
| Havermy | 0093 |
| | |
| Hitachi | 0056, 0145, 0016 |
| Hitachi Infinity | 0054 |
| Hitachi Infinity Inteq | 0054 0017 |
| Hitachi Infinity Inteq JBL | 0054 0017 0054 |
| Hitachi Infinity Inteq JBL JCB | 0054 0017 0054 0000 |
| Hitachi Infinity Inteq JBL | 0054 0017 0054 |

| 1071 | 0100 0000 |
|---------------|--------------------------------------------------------------------------------------------|
| KTV | 0180, 0030 |
| Kenwood | 0030, 0019 |
| Konka LG | 0628, 0632, 0638, 0703, 0707 0056 |
| LXI | 0047, 0747, 0054, 0154, 0156, |
| LAI | 0178 |
| Logik | 0016 |
| Luxman | 0056 |
| MGA | 0150, 0030, 0178, 0019 |
| MTC | 0060, 0030, 0056, 0019 |
| Magnavox | 0054, 1254, 0030, 0179, 1454 |
| Majestic | 0016 |
| Marantz | 0054, 0030 |
| Matsushita | 0250 |
| Megatron | 0178, 0145 |
| Memorex | 0154, 0250, 0463, 0150, 0178, |
| Midland | 0179, 0056, 0016 0047, 0747, 0017, 0051 |
| Minutz | 0021 |
| Mitsubishi | 0093, 0150, 0178, 0019 |
| Motorola | 0093 |
| Multitech | 0180 |
| NAD | 0156 0178 0166 |
| NEC | 0030, 0056, 0019 |
| NTC | 0092 |
| Nikko | 0030, 0178, 0092 |
| Onwa | 0180 |
| Optimus | 0154, 0250, 0166 |
| Optonica | 0093 |
| Orion | 0236, 0463, 0179 |
| Panasonic | 0051, 0250 0047, 0747, 1347, 0156, 0051, 0060, 0030, 0178, 0021, 0056, |
| Penney | 0047, 0747, 1347, 0156, 0051, |
| | 0000, 0030, 0178, 0021, 0036, 0019 |
| Philco | 0054, 0463, 0030, 0145, 0019 |
| Philips | 0054, 1454 |
| Pilot | 0030, 0019 |
| Pioneer | 0166 0679 |
| Portland | 0019, 0092 0717 |
| Princeton | 0717 |
| Prism | 0051 |
| Proscan | 0047, 0747 |
| Proton | 0178, 0466 |
| Pulsar | 0017, 0019 0051, 0250 |
| Quasar RCA | 0051, 0250 0047, 0747, 1047, 1147, 1247, 1347, 1447, 0090, 0051, 0093, 0019, 0679 |
| NOA | 1347 1447 0090 0051 0093 |
| | 0019, 0679 |
| Radio Shack | 0047, 0747, 0154, 0180, 0030, |
| | 0047, 0747, 0154, 0180, 0030, 0178, 0056, 0019 0154, 0180, 0030, 0178, 0056, |
| Realistic | 0154, 0180, 0030, 0178, 0056, |
| Runco | 0019 0017, 0030, 0603 |
| SSS | 0180, 0019 |
| Sampo | 0030 |
| Samsung | 0060, 0030, 0178, 0056, 0019, |
| | 0702, 0766 |
| Sansei | 0451 |
| Sansui | 0463 |
| Sanyo | 0154 |
| Scimitsu | 0019 |
| Scotch | 0178 |
| Scott | 0236, 0180, 0178, 0179, 0019 |
| Sears | 0047, 0747, 0054, 0154, 0156, 0178, 0179, 0056, 0171 |
| Semivox | 0178, 0179, 0036, 0171 |
| Semp | 0156 |
| Sharp | 0093, 0688, 0689 |
| Shogun | 0019 |
| | |

| Signature | 0016 |
|--------------------|------------------------------------------------------|
| Sony | 0000, 1100 |
| Soundesign | 0180, 0178, 0179 |
| Squareview | 0171 |
| Starlite | 0180 |
| Supreme | 0000 |
| Sylvania | 0054, 0030, 0171 |
| Symphonic | 0171, 0180 |
| TMK | 0178, 0056 |
| TNCi | 0017 |
| Tandy | 0093 |
| Technics | 0051, 0250 |
| Technol Ace | 0179 |
| Techwood | 0051, 0056 |
| Teknika | 0054, 0180, 0150, 0060, 0179, 0056, 0019, 0092, 0016 |
| Telefunken | 0056, 0702 |
| Toshiba | 0154, 0156, 0060, 1256 |
| Vector Research | 0030 |
| Victor | 0053 |
| Vidikron | 0054 |
| Vidtech | 0178, 0019 |
| Wards | 0054, 0030, 0178, 0021, 0179, 0056, 0019, 0016 |
| Waycon | 0156 |
| White Westinghouse | 0463, 0623 |
| Yamaha | 0030, 0019, 0769 |
| Zenith | 0017, 0463, 0092, 0016 |
| | |

Device Codes for Cable:

| ABC | 0003, 0008, 0014, 0017 |
|--------------------|------------------------------------|
| Americast | 0899 |
| Bell & Howell | 0014 |
| Bell South | 0899 |
| Director | 0476 |
| General Instrument | 0003, 0476, 0810, 0276 |
| GoldStar | 0144 |
| Hamlin | 0009, 0273 |
| Jerrold | 0003, 0012, 0014, 0276, 0476, 0810 |
| Memorex | 0000 |
| Motorola | 0476, 1106, 0276, 0810 |
| Pace | 0237 |
| Panasonic | 0000, 0107 |
| Paragon | 0000 |
| Philips | 0305, 0317 |
| Pioneer | 0144, 0877, 0533, 1877 |
| Pulsar | 0000 |
| Ouasar | 0000 |
| Regal | 0273, 0279 |
| Runco | 0000 |
| Samsung | 0144 |
| Scientific Atlanta | 0008, 0477, 0877, 0017, 1877 |
| Sony | 1006 |
| Starcom | 0003 |
| Supercable | 0276 |
| Tocom | 0012 |
| Torx | 0003 |
| Toshiba | 0000 |
| Zenith | 0525, 0000, 0899 |
| | |

Device Codes for Video Acc:

| AOL | 1061 | |
|------------|------|--|
| Magnavox | 1818 | |
| Mitsubishi | 1002 | |
| Panaconic | 1120 | |

INSTALLER IR CODES

| Philips | 1818, 1061 |
|-----------------|------------|
| Pioneer | 1010 |
| Princeton | 0113, 0295 |
| Samsung | 1190, 1204 |
| Sensory Science | 1126 |
| Sharp | 1010 |
| Sony | 0850 |

Device Codes for SAT/DSS:

| DCVICC OU | ucs | 101 | OA1/ DOO. |
|--------------------|---------------|------|---------------------|
| AlphaStar | 0772 | | |
| Chaparral | 0216 | | |
| Crossdigital | 1109 | | |
| Echostar | 0775, | 1005 | |
| Expressvu | 0775 | | |
| GE | 0566 | | |
| GOI | 0775 | | |
| General Instrument | | | |
| HTS | 0775 | | |
| Hitachi | 0819 | | |
| Hughes Net. Sys. | | 1142 | , 1749 |
| JVC | 0775 | | |
| Magnavox | 0724, | 0722 | |
| Memorex | 0724 | | |
| Mitsubishi | 0749 | | |
| Motorola | 0869 | | |
| Next Level | 0869 | | |
| Panasonic | 0247, | 0701 | |
| Paysat | 0724 | | |
| Philips | 0724, 1749 | 0722 | , 1142, 0749, 1076, |
| Proscan | 0392 | | |
| RCA | 0566, | 0143 | , 0855, 0392 |
| RadioShack | 0869 | | |
| Samsung | 1109 | | |
| Sony | 0639 | | |
| Star Choice | 0869 | | |
| Toshiba | 0749, | 0790 | , 1749 |
| Uniden | 0724, | 0722 | |
| Zenith | 0856, | 1856 | |
| | | | |

Device Codes for VCRs:

| Admiral | 0048, 0209 |
|----------------|------------------------------------|
| Adventura | 0000 |
| Aiko | 0278 |
| Aiwa | 0037, 0000 |
| Akai | 0041 |
| America Action | 0278 |
| American High | 0035 |
| Asha | 0240 |
| Audiovox | 0037 |
| Beaumark | 0240 |
| Bell & Howell | 0104 |
| Broksonic | 0184, 0121, 0209, 0002, 1479 |
| CCE | 0072, 0278 |
| Calix | 0037 |
| Canon | 0035 |
| Carver | 0081 |
| Cineral | 0278 |
| Citizen | 0037, 0278, 1278 |
| Colt | 0072 |
| Craig | 0037, 0047, 0240, 0072 |
| Curtis Mathes | 0035, 0060, 0760, 0162, 0041, 1035 |
| Cybernex | 0240 |
| Daewoo | 0045, 0278, 1278 |
| Denon | 0042 |

| Dynatech | 0000 |
|------------------|---------------------------------------------------------------------------------------------------------------------|
| | 0037 |
| Electrohome | |
| Electrophonic | 0037 |
| Emerex | 0032 |
| Emerson | 0037, 0184, 0000, 0121, 1278, 1479, 0043, 0209, 0002, 0278, 0479 |
| | 14/9, 0043, 0209, 0002, 02/8, |
| | |
| Fisher | 0047, 0104 |
| Fuji | 0035 |
| Funai | 0000 |
| GE | 0035, 0060, 0760, 0048, 0240, |
| | 0035, 0060, 0760, 0048, 0240, 1035, 1060, 0807 |
| Garrard | 0000 |
| Go Video | 0432 |
| GoldStar | 0037, 0038, 1237 |
| Gradiente | 0000 |
| HI-Q | 0047 |
| Harley Davidson | 0000 |
| Harman/Kardon | |
| | 0081, 0038 |
| Harwood | 0072 |
| Hitachi | 0000, 0042, 0041 |
| Hughes Net. Sys. | 0042 |
| JVC | 0067, 0041 |
| Jensen | 0041 |
| KEC | 0037, 0278 |
| KLH | 0072 |
| Kenwood | 0067, 0041, 0038 |
| Kodak | 0035, 0037 |
| LXI | 0037 |
| | 0000 |
| Lloyd's | |
| Logik | 0072 |
| MEI | 0035 |
| MGA | 0240, 0043 |
| MGN Technology | 0240 |
| MTC | 0000, 0240 |
| Magnasonic | 0278, 1278 |
| Magnavox | 0035 0030 0081 0000 0140 |
| .0 | 0563, 1781 |
| Magnin | 0240 |
| Marantz | 0035, 0081 |
| Marta | 0037 |
| Matsushita | 0035 0162 0454 |
| Memorex | 0035, 0102, 0434 |
| MEHIOLEX | 0035, 0102, 0434 0035, 0037, 1037, 0048, 0039, 0047, 0162, 1162, 1262, 0000, 0240, 0104, 0209, 0454, 0479, |
| | 0240, 0102, 1102, 1202, 0000, |
| | 1237 |
| Minolta | 0042 |
| Mitsubishi | 0048, 0067, 0043, 0807 |
| Motorola | 0035 0048 |
| | 0035, 0048 |
| Multitech | 0000, 0072 |
| NEC | 0067, 0104, 0041, 0038 0037 |
| Nikko | |
| Noblex | 0240 |
| Olympus | 0035 |
| Optimus | 0037, 0048, 1048, 0162, 1062, 1162, 1262, 0104, 0454, 0432 |
| | 1162, 1262, 0104, 0454, 0432 |
| Orion | 0184, 0209, 0002, 0479, 1479 |
| Panasonic | 0035, 0225, 0162, 1062, |
| | 0035, 0225, 0162, 1062, 1035,1162, 1262, 0454, 0616 |
| Penney | 0035, 0037, 0042, 0240, 0038, |
| - | 1035, 1237 |
| Pentax | 0042 |
| Philco | 0035, 0209, 0479 |
| Philips | 0035, 0081, 1081, 1181, 0618 |
| Pilot | 0037 |
| Pioneer | 0067 |
| Polk Audio | 0081 |
| | |
| Profitronic | 0240 |
| Proscan | 0060, 0760, 1060 |
| | |

| Protec | 0072 | | |
|--------------------|-----------|-----------------|----------------------------|
| Pulsar | 0039 | | |
| Quasar | 0035, 01 | .62, 1162, | 0454, 1035 |
| RCA | 0035, 00 | 060, 0760, | 0048, 1035, |
| | 1060, 08 | 307, 0149, | 0048, 1035, 0042, 0240 |
| Radio Shack | 1037, 00 | 000 | |
| Radix | 0037 | | |
| Randex | 0037 | | |
| Realistic | | 37 0048 | 0047, 0000, |
| redistic | 0104 | 757, 0040, | 0047, 0000, |
| ReplayTV | 0614, 06 | 16 | |
| Runco | 0039 | ,10 | |
| STS | 0042 | | |
| Samsung | 0042, 02 | 240 | |
| Sanky | 0043, 02 | 120 | |
| Sansui | 0040, 00 | 133 167 0200 | 0041 |
| Sansui | 0479,14 | 067, 0209, | 0041, |
| Sanyo | | | |
| | 01047, 02 | 240, 0104 | 0042 |
| Scott | 0184, 00 | 045, 0121, | 0043 |
| Sears | 0035, 00 | 137, 0047, | 0000, 0042, |
| | 0104, 12 | 237 | |
| Semp | 0045 | | |
| Sharp | | 307, 0848 | |
| Shintom | 0072 | | |
| Shogun | 0240 | | |
| Singer | 0072 | | |
| Sonic Blue | 0614 | | |
| Sony | 0035. 00 | 32. 1032. | 0000, 0636, |
| | 1232 | | |
| Sylvania | 0035, 00 | 81, 0000, | 0043, 1781 |
| Symphonic | 0000 | | |
| TMK | 0240 | | |
| Tatung | 0041 | | |
| Teac | 0000, 00 |)41 | |
| Technics | 0035, 01 | 62 | |
| Teknika | 0035, 01 | 37, 0000 | |
| Thomas | 0000, 00 | 757, 0000 | |
| Tivo | | 36 | |
| Toshiba | 0618, 06 |)43, 0845 | |
| | 0045, 00 | 143, 0043 | |
| Totevision | 0037, 02 | 140 | |
| Unitech | 0240 | | |
| Vector | 0045 | | |
| Vector Research | 0038 | | |
| Video Concepts | 0045 | | |
| Videomagic | 0037 | | |
| Videosonic | 0240 | | |
| Villain | 0000 | | |
| Wards | 0035, 00 | 060, 0760, | 0048, 0047, 0240, 0072, |
| | 0081, 00 | 0042, | 0240, 00/2, |
| VAA :: | 0149 | 70 0070 | 1070 |
| White Westinghouse | | | 12/8 |
| XR-1000 | | 000, 0072 | |
| Yamaha | 0038 | | |
| Zenith | 0039, 00 | 000, 0209, | 0479, 1479 |
| | | | |

Device Codes for Laser Disc Players:

| Aiwa | 0203 | |
|------------|------------|--|
| Denon | 0059, 0172 | |
| Funai | 0203 | |
| Mitsubishi | 0059 | |
| NAD | 0059 | |
| Optimus | 0059 | |
| Panasonic | 0204 | |
| Pioneer | 0059 | |
| Quasar | 0204 | |
| | | |

INSTALLER IR CODES

| Realistic | 0203 | |
|-----------|------------|--|
| Sony | 0201, 0193 | |
| Technics | 0204 | |
| | | |

Device Codes for DVD Players:

| Aiwa | 0641 |
|----------------|------------------------------------------|
| Apex Digital | 0672, 0755, 0794, 0795, 0796, |
| | 0672, 0755, 0794, 0795, 0796, 0797, 0830 |
| Blue Parade | 05/1 |
| Broksonic | 0695 |
| Daewoo | 0784 |
| Denon | 0490, 0634 |
| Emerson | 0591 |
| Enterprise | 0591 |
| Fisher | 0670 |
| GE | 0522 |
| Go Video | 0715, 0783 |
| Gradiente | 0651 |
| Harman/Kardon | 0582, 0702 |
| Hitachi | 0573, 0664 |
| Hiteker | 0672 |
| JBL | 0702 |
| JDL | |
| JVC | 0558, 0623, 0867 |
| Kenwood | 0534, 0682 |
| Konka | 0711, 0719, 0720, 0721 |
| Koss | 0651 |
| Lasonic | 0798 |
| Magnavox | 0503, 0675 |
| Malata | 0782 |
| Marantz | 0539 |
| Microsoft | 0522 |
| Mitsubishi | 0521 |
| Onkyo | 0503, 0627 |
| Oritron | 0651 |
| Panasonic | 0490, 0632 |
| Philips | 0503, 0539, 0646, 0854 |
| Pioneer | 0525, 0571, 0632 |
| Princeton | 0674 |
| Proscan | 0522 |
| RCA | 0522, 0571, 0822, 1022 |
| Rowa | 0823 |
| Sampo | 0698 |
| | 0573, 0820 |
| Samsung | |
| Sansui | 0695 |
| Sanyo | 0670 |
| Sharp | 0630 |
| Sherwood | 0633 |
| Sony | 0533, 1533 |
| Sylvania | 0821 |
| Technics | 0490 |
| Techwood | 0692 |
| Theta Digital | 0571 |
| Toshiba | 0503, 0695, 1045 |
| Urban Concepts | 0503 |
| Yamaha | 0490, 0545, 0817 |
| Zenith | 0503, 0591 |
| | A |

Device Codes for Tuner/Amp:

| | - | - |
|--------------|------------------------|---|
| ADC | 0531 | |
| Aiwa | 1089, 1405, 0158, 1388 | |
| Alco | 1390 | |
| Anam | 1609 | |
| Apex Digital | 1257 | |
| Audiotronic | 1189 | |
| Audiovox | 1390 | |
| Bose | 1229 | |

| Capetronic | 0531 |
|---------------|------------------------------|
| Carver | 1089, 1189 |
| Denon | 1104, 1160, 1360 |
| JBL | 1306 |
| JVC | 0074 |
| KLH | 1390 |
| Kenwood | 1313, 1027, 1570, 1569, 0027 |
| Koss | 1366 |
| MCS | 0039 |
| Magnavox | 1089, 1189, 0531 |
| Marantz | 1089, 1189, 0039 |
| Musicmagic | 1089 |
| Onkyo | 0135, 0842, 1298 |
| Optimus | 1023, 0531 |
| Panasonic | 1518, 0039, 1288 |
| Philips | 1089, 1189, 1269, 1283 |
| Pioneer | 0014, 0531, 1023 |
| Proscan | 1254 |
| Quasar | 0039 |
| RCA | 1023, 1254, 0531, 1390, 1609 |
| Samsung | 1295 |
| Sansui | 1089 |
| Sherwood | 1653 |
| Sony | 1058, 1158, 1258, 0158 |
| Stereophonics | 1023 |
| Sunfire | 1313 |
| Technics | 1308, 1309, 1518, 0039 |
| Thorens | 1189 |
| Venturer | 1390 |
| Victor | 0074 |
| Wards | 0014, 0158 |
| Yamaha | 0176, 1176 |
| | |

Device Codes for Amp and Misc. Audio:

| Aiwa | 0010, 0159 |
|--------------------|------------|
| GE | 0078 |
| Harman/Kardon | 0892 |
| Jerrold | 0520, 0459 |
| JVC | 0331 |
| Left Coast | 0892 |
| Marantz | 0892 |
| Optimus | 0395 |
| Philips | 0892 |
| Polk Audio | 0892 |
| Realistic | 0395 |
| Scientific Atlanta | 0460 |
| Sony | 0010, 0159 |
| Soundesign | 0078 |
| Starcom | 0459 |
| Victor | 0331 |
| Wards | 0078 |
| Yamaha | 0354 |
| | |

Device Codes for CD Players:

| Aiwa | 0157 |
|-----------------------|------------|
| California Audio Labs | 0029 |
| Carver | 0157, 0179 |
| Classic | 1297 |
| DKK | 0000 |
| DMX Electronics | 0157 |
| Denon | 0873 |
| Emerson | 0305 |
| Fisher | 0179 |
| GPX | 1296 |

| Genexxa | 0032, 0305 |
|-----------------|-------------------------------|
| Harman/Kardon | 0157, 0173 |
| Hitachi | 0032 |
| JVC | 0072, 1294 |
| Kenwood | 0826, 0626, 0028, 0037, 0681 |
| Koss | 1317 |
| Krell | 0157 |
| LXI | 0305 |
| Linn | 0157 |
| MCS | 0029 |
| Magnavox | 0157, 0305 |
| Marantz | 0626, 0029, 0157 |
| Miro | 0000 |
| Mission | 0157 |
| NSM | 0157 |
| Onkyo | 0868 |
| Optimus | 1063, 0032, 0000, 0179, 0305, |
| | 0037 |
| Panasonic | 0029 |
| Philips | 0626, 0157 |
| Pioneer | 1063, 0032, 0305, 1062 |
| Polk Audio | 0157 |
| Proton | 0157 |
| QED | 0157 |
| Quasar | 0029 |
| RCA | 0179, 0305, 0032, 1062 |
| Realistic | 0179 |
| Rotel | 0157 |
| SAE | 0157 |
| Sansui | 0157, 0305 |
| Sanyo | 0179 |
| Scott | 0305 |
| Sears | 0305 |
| Sharp | 0861, 0037 |
| Sherwood | 1067 |
| Sonic Frontiers | 0157 |
| Sony | 0490, 0000, 0100 |
| TDK | 1208 |
| Technics | 0029 |
| Victor | 0072 |
| Wards | 0157 |
| Yamaha | 0888, 1292 |
| | |

Device Codes for Home Control:

| Audio Access | 0154 |
|-----------------|------------------------|
| Cableshare | 0537 |
| Comfortex | 0400 |
| Da-Lite | 0780 |
| Elero | 0434 |
| Evergo | 0059 |
| GE | 0240 |
| Gewa | 0095 |
| Holmes | 1215 |
| Hunter Douglas | 0433 |
| Lightolier | 0184, 1204, 1205, 1206 |
| LiteTouch | 0084 |
| Lutron | 0597, 0318, 1239, 1597 |
| One For All | 0167 |
| RadioShack | 0240 |
| Russound | 1232, 1233 |
| Sanyo | 0336 |
| Security System | 0167 |
| Somfy | 0780 |
| Universal X10 | 0167 |
| X10 | 0167 |

INSTALLER KEY CODES TV (HDTV)

| KEY FUNCTION | UNO-S1 | TV (HDTV) | KEY FUNCTION | UNO-S1 | TV (HDTV) |
|--------------|--------|---------------|--------------|--------|--------------------|
| 1 | 1 | Digit 1 | Pause | Pause | Learned Only |
| 2 | 2 | Digit 2 | Record | Recrd | Learned Only |
| 3 | 3 | Digit 3 | Menu | Menu | Menu (Picture) |
| 4 | 4 | Digit 4 | Menu Up | MenuU | Menu Up, Adjust Up |
| 5 | 5 | Digit 5 | Menu Dn | MenuD | Menu Dn, Adjust Dn |
| 6 | 6 | Digit 6 | Menu Left | MenuL | Menu Left |
| 7 | 7 | Digit 7 | Menu Right | MenuR | Menu Right |
| 8 | 8 | Digit 8 | Select | Sel | Menu Select |
| 9 | 9 | Digit 9 | Exit | Exit | Exit, Cancel |
| 0 | 0 | Digit 0 | Display | Displ | Display, OSD, Info |
| Volume Up | VolUp | Volume Up | Guide | Guide | Guide |
| Volume Down | VolDn | Volume Down | Page Up | PageU | Adjust up |
| Mute | Mute | Mute | Page Down | PageD | Adjust Down |
| Channel Up | Ch Up | Channel Up | Disk | Disk | Learned Only |
| Channel Dn | Ch Dn | Channel Down | Plus 10 | Pls10 | +100 |
| Power | Power | Power On/Off | Open/Close | Op/Cl | Learned Only |
| Enter | Enter | Channel Enter | Random | Randm | Learned Only |
| Prev Channel | PrvCh | Last Channel | Track Fwd | TkFwd | Learned Only |
| TV/Video | TVVid | Learned Only | Track Rev | TkRev | Learned Only |
| TV/VCR | TVVCR | Learned Only | Sur On/Off | SurOn | Surround On/Off |
| A/B | A/B | Learned Only | Sur Mode | SurMd | Learned Only |
| TV/DVD | TVDVD | Learned Only | Surround Up | SurUp | Learned Only |
| TV/LD | TV LD | Learned Only | Surround Dn | SurDn | Learned Only |
| Input | Input | TV/Video | PIP | PIP | Learned Only |
| TV/DSS | TVDSS | Learned Only | PIP Move | PIP M | PIP Move |
| Play | Play | Learned Only | PIP Swap | PIP S | PIP Swap |
| Stop | Stop | Learned Only | Program | Progm | Learned Only |
| Search Fwd | SrchF | Learned Only | Sleep | Sleep | Learned Only |
| Search Rev | SrchR | Learned Only | On | On | On, Power On/Off |

INSTALLER KEY CODES TV (HDTV)

| KEY FUNCTION | UNO-S1 | TV (HDTV) |
|--------------|--------|---------------------|
| Off | Off | Off, Power On/Off |
| 11 | 11 | Learned Only |
| 12 | 12 | Learned Only |
| 13 | 13 | Learned Only |
| 14 | 14 | Learned Only |
| 15 | 15 | Learned Only |
| 16 | 16 | Learned Only |
| Bright | Brght | Learned Only |
| Dim | Dim | Learned Only |
| Close | Close | Learned Only |
| Open | Open | Learned Only |
| Halt | Halt | Learned Only |
| AM/FM | AM/FM | Learned Only |
| Cue | Cue | Learned Only |
| Disk Up | DiskU | Learned Only |
| Disk Down | DiskD | Learned Only |
| Info | Info | Learned Only |
| External Src | ExtSr | External Antenna |
| Live/Intro | Intro | Learned Only |
| Menu | Menu | Menu (Audio) |
| Back | Back | Back |
| Fav Channel | FavCh | Favorite |
| Display Fmt | DFrmt | Fmt,Wide,16:9,Aspct |
| SAP | SAP | SAP, CC |
| Slow | Slow | Learned Only |
| PIP On | PIPOn | PIP ON |
| PIP Off | PIPOf | PIP OFF |
| PIP Freeze | PIPFr | PIP Freeze |
| PIP Input | PIPIn | PIP Input |

| KEY FUNCTION | UNO-S1 | TV (HDTV) |
|--------------|--------|----------------------|
| PIP Chan Up | PIPCU | PIP Channel Up |
| PIP Chan Dn | PIPCD | PIP Channel Down |
| Input 1 | In 1 | VID1,Video,TVp1 |
| Input 2 | In 2 | VID2,TVp2 |
| Input 3 | In 3 | VID3,TVp3 |
| Input 4 | In 4 | VID4,TVp4 |
| Input 5 | In 5 | VID5,AV1,VCR,BNC |
| Input 6 | In 6 | VID6,AV2,VDP,DVD,DVI |
| Input 7 | In 7 | TV, Component |
| Input 8 | In 8 | CAB,SAT,S-Video |
| Input 9 | In 9 | AV, Tuner |
| Input 10 | In 10 | AUX, RGB |

INSTALLER KEY CODES CABLE

| KEY FUNCTION | UNO-S1 | CABLE |
|--------------|--------|---------------|
| 1 | 1 | Digit 1 |
| 2 | 2 | Digit 2 |
| 3 | 3 | Digit 3 |
| 4 | 4 | Digit 4 |
| 5 | 5 | Digit 5 |
| 6 | 6 | Digit 6 |
| 7 | 7 | Digit 7 |
| 8 | 8 | Digit 8 |
| 9 | 9 | Digit 9 |
| 0 | 0 | Digit 0 |
| Volume Up | VolUp | Volume Up |
| Volume Down | VolDn | Volume Down |
| Mute | Mute | Mute |
| Channel Up | Ch Up | Channel Up |
| Channel Dn | Ch Dn | Channel Down |
| Power | Power | Power On/Off |
| Enter | Enter | Channel Enter |
| Prev Channel | PrvCh | Last Channel |
| TV/Video | TVVid | Learned Only |
| TV/VCR | TVVCR | Learned Only |
| A/B | A/B | Learned Only |
| TV/DVD | TVDVD | Learned Only |
| TV/LD | TV LD | Learned Only |
| Input | Input | Bypass, A/B |
| TV/DSS | TVDSS | Learned Only |
| Play | Play | Play |
| Stop | Stop | Stop |
| Search Fwd | SrchF | Fast Forward |
| Search Rev | SrchR | Rewind |

| KEY FUNCTION | UNO-S1 | CABLE |
|--------------|--------|--------------------|
| Pause | Pause | Pause |
| Record | Recrd | Record |
| Menu | Menu | Menu, Settings |
| Menu Up | MenuU | Menu Up |
| Menu Dn | MenuD | Menu Down |
| Menu Left | MenuL | Menu Left |
| Menu Right | MenuR | Menu Right |
| Select | Sel | Menu Select |
| Exit | Exit | Exit, Cancel |
| Display | Displ | Info, Display, OSD |
| Guide | Guide | Guide |
| Page Up | PageU | Page Up |
| Page Down | PageD | Page Down |
| Disk | Disk | Learned Only |
| Plus 10 | Pls10 | +100 |
| Open/Close | Op/CI | Learned Only |
| Random | Randm | Learned Only |
| Track Fwd | TkFwd | Quick Skip,Advance |
| Track Rev | TkRev | Instant Replay |
| Sur On/Off | SurOn | Day Down |
| Sur Mode | SurMd | Learned Only |
| Surround Up | SurUp | Learned Only |
| Surround Dn | SurDn | Learned Only |
| PIP | PIP | Learned Only |
| PIP Move | PIP M | Learned Only |
| PIP Swap | PIP S | Learned Only |
| Program | Progm | Learned Only |
| Sleep | Sleep | Learned Only |
| On | On | On, Power On/Off |

INSTALLER KEY CODES CABLE

| KEY FUNCTION | UNO-S1 | CABLE |
|--------------|--------|--------------------|
| Off | Off | Off, Power On/Off |
| 11 | 11 | Learned Only |
| 12 | 12 | Learned Only |
| 13 | 13 | Learned Only |
| 14 | 14 | Learned Only |
| 15 | 15 | Learned Only |
| 16 | 16 | Learned Only |
| Bright | Brght | Learned Only |
| Dim | Dim | Learned Only |
| Close | Close | Learned Only |
| Open | Open | Learned Only |
| Halt | Halt | Learned Only |
| AM/FM | AM/FM | Learned Only |
| Cue | Cue | Learned Only |
| Disk Up | DiskU | Learned Only |
| Disk Down | DiskD | Learned Only |
| Info | Info | Learned Only |
| External Src | ExtSr | External AV Source |
| Live/Intro | Intro | Return to Live |
| Menu | Menu | PPV (Wink) |
| Back | Back | Back |
| Fav Channel | FavCh | Favorite |
| Display Fmt | DFrmt | Help |
| SAP | SAP | Day Up |
| Slow | Slow | Learned Only |
| PIP On | PIPOn | Learned Only |
| PIP Off | PIPOf | Learned Only |
| PIP Freeze | PIPFr | Learned Only |
| PIP Input | PIPIn | Learned Only |

| KEY FUNCTION | UNO-S1 | CABLE |
|--------------|--------|----------------------|
| PIP Chan Up | PIPCU | Learned Only |
| PIP Chan Dn | PIPCD | Learned Only |
| Input 1 | ln 1 | A,VID1,Video,TVp1 |
| Input 2 | ln 2 | B,VID2,TVp2 |
| Input 3 | In 3 | C,VID3,TVp3 |
| Input 4 | In 4 | VID4,TVp4 |
| Input 5 | In 5 | VID5,AV1,VCR,BNC |
| Input 6 | In 6 | VID6,AV2,VDP,DVD,DVI |
| Input 7 | In 7 | TV, Component |
| Input 8 | In 8 | CAB,SAT,S-Video |
| Input 9 | In 9 | AV, Tuner |
| Input 10 | In 10 | AUX, RGB |

INSTALLER KEY CODES VIDEO ACC

| KEY FUNCTION | UNO-S1 | VIDEO ACC |
|--------------|--------|---------------|
| 1 | 1 | Digit 1 |
| 2 | 2 | Digit 2 |
| 3 | 3 | Digit 3 |
| 4 | 4 | Digit 4 |
| 5 | 5 | Digit 5 |
| 6 | 6 | Digit 6 |
| 7 | 7 | Digit 7 |
| 8 | 8 | Digit 8 |
| 9 | 9 | Digit 9 |
| 0 | 0 | Digit 0 |
| Volume Up | VolUp | Volume Up |
| Volume Down | VolDn | Volume Down |
| Mute | Mute | Mute |
| Channel Up | Ch Up | Channel Up |
| Channel Dn | Ch Dn | Channel Down |
| Power | Power | Power On/Off |
| Enter | Enter | Channel Enter |
| Prev Channel | PrvCh | Last Channel |
| TV/Video | TVVid | Learned Only |
| TV/VCR | TVVCR | Learned Only |
| A/B | A/B | Learned Only |
| TV/DVD | TVDVD | Learned Only |
| TV/LD | TV LD | Learned Only |
| Input | Input | TV/Video, DTV |
| TV/DSS | TVDSS | Learned Only |
| Play | Play | Play |
| Stop | Stop | Stop |
| Search Fwd | SrchF | Fast Forward |
| Search Rev | SrchR | Rewind |

| KEY FUNCTION | UNO-S1 | VIDEO ACC |
|--------------|--------|--------------------|
| Pause | Pause | Pause |
| Record | Recrd | Record |
| Menu | Menu | Menu, Home |
| Menu Up | MenuU | Menu Up |
| Menu Dn | MenuD | Menu Dn |
| Menu Left | MenuL | Menu Left |
| Menu Right | MenuR | Menu right |
| Select | Sel | Menu Select |
| Exit | Exit | Exit, Cancel, Go |
| Display | Displ | Info, Display, OSD |
| Guide | Guide | Guide, View |
| Page Up | PageU | Page Up, Scroll Up |
| Page Down | PageD | Page Dn, Scroll Dn |
| Disk | Disk | Learned Only |
| Plus 10 | Pls10 | +100. +10 |
| Open/Close | Op/CI | Learned Only |
| Random | Randm | Learned Only |
| Track Fwd | TkFwd | Skip Up, Next |
| Track Rev | TkRev | Skip Dn, Previous |
| Sur On/Off | SurOn | Learned Only |
| Sur Mode | SurMd | Learned Only |
| Surround Up | SurUp | Learned Only |
| Surround Dn | SurDn | Learned Only |
| PIP | PIP | Learned Only |
| PIP Move | PIP M | PIP Move |
| PIP Swap | PIP S | PIP Swap |
| Program | Progm | Learned Only |
| Sleep | Sleep | Learned Only |
| On | On | On, Power On/Off |

INSTALLER KEY CODES VIDEO ACC

| KEY FUNCTION | UNO-S1 | VIDEO ACC |
|--------------|--------|---------------------|
| Off | Off | Off, Power On/Off |
| 11 | 11 | Learned Only |
| 12 | 12 | Learned Only |
| 13 | 13 | Learned Only |
| 14 | 14 | Learned Only |
| 15 | 15 | Learned Only |
| 16 | 16 | Learned Only |
| Bright | Brght | Learned Only |
| Dim | Dim | Learned Only |
| Close | Close | Learned Only |
| Open | Open | Learned Only |
| Halt | Halt | Learned Only |
| AM/FM | AM/FM | Learned Only |
| Cue | Cue | Learned Only |
| Disk Up | DiskU | Learned Only |
| Disk Down | DiskD | Learned Only |
| Info | Info | Learned Only |
| External Src | ExtSr | Ext. Antenna, Web |
| Live/Intro | Intro | Learned Only |
| Menu | Menu | Setup,Prgrm,Options |
| Back | Back | Learned Only |
| Fav Channel | FavCh | Favorites |
| Display Fmt | DFrmt | Fmt,Wide,16:9,Aspct |
| SAP | SAP | Language, MTS |
| Slow | Slow | Learned Only |
| PIP On | PIPOn | PIP ON |
| PIP Off | PIPOf | PIP OFF |
| PIP Freeze | PIPFr | PIP Freeze |
| PIP Input | PIPIn | PIP Input |

| KEY FUNCTION | UNO-S1 | VIDEO ACC |
|--------------|--------|----------------------|
| PIP Chan Up | PIPCU | PIP Channel Up |
| PIP Chan Dn | PIPCD | PIP Channel Down |
| Input 1 | ln 1 | VID1,Video,TVp1 |
| Input 2 | In 2 | VID2,TVp2 |
| Input 3 | In 3 | VID3,TVp3 |
| Input 4 | In 4 | VID4,TVp4 |
| Input 5 | In 5 | VID5,AV1,VCR,BNC |
| Input 6 | In 6 | VID6,AV2,VDP,DVD,DVI |
| Input 7 | In 7 | TV, Component |
| Input 8 | In 8 | CAB,SAT,S-Video |
| Input 9 | In 9 | AV, Tuner |
| Input 10 | In 10 | AUX, RGB |

INSTALLER KEY CODES SAT/DSS

| KEY FUNCTION | UNO-S1 | SAT/DSS | KEY FUNCTION | UNO-S1 | SAT/DSS |
|--------------|--------|---------------|--------------|--------|--------------------|
| 1 | 1 | Digit 1 | Pause | Pause | Pause |
| 2 | 2 | Digit 2 | Record | Recrd | Record |
| 3 | 3 | Digit 3 | Menu | Menu | Menu (PVR, Tivo) |
| 4 | 4 | Digit 4 | Menu Up | MenuU | Menu Up |
| 5 | 5 | Digit 5 | Menu Dn | MenuD | Menu Down |
| 6 | 6 | Digit 6 | Menu Left | MenuL | Menu Left |
| 7 | 7 | Digit 7 | Menu Right | MenuR | Menu Right |
| 8 | 8 | Digit 8 | Select | Sel | Menu Select |
| 9 | 9 | Digit 9 | Exit | Exit | Exit, Cancel |
| 0 | 0 | Digit 0 | Display | Displ | Info, Display, OSD |
| Volume Up | VolUp | Volume Up | Guide | Guide | Guide |
| Volume Down | VolDn | Volume Down | Page Up | PageU | Page Up,ThumbsUp |
| Mute | Mute | Mute | Page Down | PageD | Page Dn,ThumbsDn |
| Channel Up | Ch Up | Channel Up | Disk | Disk | Learned Only |
| Channel Dn | Ch Dn | Channel Down | Plus 10 | Pls10 | +100 |
| Power | Power | Power On/Off | Open/Close | Op/CI | Learned Only |
| Enter | Enter | Channel Enter | Random | Randm | Learned Only |
| Prev Channel | PrvCh | Last Channel | Track Fwd | TkFwd | Quick Skip,Advance |
| TV/Video | TVVid | Learned Only | Track Rev | TkRev | Instant Replay |
| TV/VCR | TVVCR | Learned Only | Sur On/Off | SurOn | Learned Only |
| A/B | A/B | Learned Only | Sur Mode | SurMd | Learned Only |
| TV/DVD | TVDVD | Learned Only | Surround Up | SurUp | Learned Only |
| TV/LD | TV LD | Learned Only | Surround Dn | SurDn | Learned Only |
| Input | Input | TV/DSS/SAT | PIP | PIP | Learned Only |
| TV/DSS | TVDSS | Learned Only | PIP Move | PIP M | Learned Only |
| Play | Play | Play | PIP Swap | PIP S | Learned Only |
| Stop | Stop | Stop | Program | Progm | Learned Only |
| Search Fwd | SrchF | Fast Forward | Sleep | Sleep | Learned Only |
| Search Rev | SrchR | Rewind | On | On | On, Power On/Off |

INSTALLER KEY CODES SAT/DSS

| KEY FUNCTION | UNO-S1 | SAT/DSS |
|--------------|--------|---------------------|
| Off | Off | Off, Power On/Off |
| 11 | 11 | Learned Only |
| 12 | 12 | Learned Only |
| 13 | 13 | Learned Only |
| 14 | 14 | Learned Only |
| 15 | 15 | Learned Only |
| 16 | 16 | Learned Only |
| Bright | Brght | Learned Only |
| Dim | Dim | Learned Only |
| Close | Close | Learned Only |
| Open | Open | Learned Only |
| Halt | Halt | Learned Only |
| AM/FM | AM/FM | Learned Only |
| Cue | Cue | Learned Only |
| Disk Up | DiskU | Learned Only |
| Disk Down | DiskD | Learned Only |
| Info | Info | Learned Only |
| External Src | ExtSr | External AV Source |
| Live/Intro | Intro | Return to Live |
| Menu | Menu | Menu (DTV) |
| Back | Back | Back |
| Fav Channel | FavCh | Favorite |
| Display Fmt | DFrmt | Fmt,Wide,16:9,Aspct |
| SAP | SAP | Alt/Audio,Lang.,CC |
| Slow | Slow | Slow |
| PIP On | PIPOn | Learned Only |
| PIP Off | PIPOf | Learned Only |
| PIP Freeze | PIPFr | Learned Only |
| PIP Input | PIPIn | Learned Only |

| KEY FUNCTION | UNO-S1 | SAT/DSS |
|--------------|--------|----------------------|
| PIP Chan Up | PIPCU | Learned Only |
| PIP Chan Dn | PIPCD | Learned Only |
| Input 1 | ln 1 | VID1,Video,TVp1 |
| Input 2 | ln 2 | VID2,TVp2 |
| Input 3 | In 3 | VID3,TVp3 |
| Input 4 | ln 4 | VID4,TVp4 |
| Input 5 | In 5 | VID5,AV1,VCR,BNC |
| Input 6 | In 6 | VID6,AV2,VDP,DVD,DVI |
| Input 7 | In 7 | TV, Component |
| Input 8 | In 8 | CAB,SAT,S-Video |
| Input 9 | In 9 | AV, Tuner |
| Input 10 | In 10 | AUX, RGB |

INSTALLER KEY CODES VCR

| KEY FUNCTION | UNO-S1 | VCR |
|--------------|--------|---------------|
| 1 | 1 | Digit 1 |
| 2 | 2 | Digit 2 |
| 3 | 3 | Digit 3 |
| 4 | 4 | Digit 4 |
| 5 | 5 | Digit 5 |
| 6 | 6 | Digit 6 |
| 7 | 7 | Digit 7 |
| 8 | 8 | Digit 8 |
| 9 | 9 | Digit 9 |
| 0 | 0 | Digit 0 |
| Volume Up | VolUp | Volume Up |
| Volume Down | VolDn | Volume Down |
| Mute | Mutte | Mute |
| Channel Up | Ch Up | Channel Up |
| Channel Dn | Ch Dn | Channel Down |
| Power | Power | Power On/Off |
| Enter | Enter | Channel Enter |
| Prev Channel | PrvCh | Last Channel |
| TV/Video | TVVid | Learned Only |
| TV/VCR | TVVCR | Learned Only |
| A/B | A/B | Learned Only |
| TV/DVD | TVDVD | Learned Only |
| TV/LD | TV LD | Learned Only |
| Input | Input | TV/VCR |
| TV/DSS | TVDSS | Learned Only |
| Play | Play | Play |
| Stop | Stop | Stop |
| Search Fwd | SrchF | Fast Forward |
| Search Rev | SrchR | Rewind |

| KEY FUNCTION | UNO-S1 | VCR |
|--------------|--------|--------------------------|
| Pause | Pause | Pause |
| Record | Recrd | Record |
| Menu | Menu | Menu (PVR,Tivo) |
| Menu Up | MenuU | Menu Up |
| Menu Dn | MenuD | Menu Down |
| Menu Left | MenuL | Menu Left |
| Menu Right | MenuR | Menu Right |
| Select | Sel | Menu Select |
| Exit | Exit | Exit, Cancel |
| Display | Displ | Display, OSD, Info |
| Guide | Guide | Guide,VCR+,Prgrm |
| Page Up | PageU | Thmubs Up |
| Page Down | PageD | Thmubs Down |
| Disk | Disk | Learned Only |
| Plus 10 | Pls10 | +100 |
| Open/Close | Op/CI | Learned Only |
| Random | Randm | Learned Only |
| Track Fwd | TkFwd | QuickSkip/Adv,Indx TrkUp |
| Track Rev | TkRev | Instnt Rplay,Indx Trk Dn |
| Sur On/Off | SurOn | Learned Only |
| Sur Mode | SurMd | Learned Only |
| Surround Up | SurUp | Learned Only |
| Surround Dn | SurDn | Learned Only |
| PIP | PIP | Learned Only |
| PIP Move | PIP M | Learned Only |
| PIP Swap | PIP S | Learned Only |
| Program | Progm | Learned Only |
| Sleep | Sleep | Learned Only |
| On | On | On, Power On/Off |

INSTALLER KEY CODES VCR

| KEY FUNCTION | UNO-S1 | VCR |
|--------------|--------|----------------------------|
| Off | Off | Off, Power On/Off |
| 11 | 11 | Learned Only |
| 12 | 12 | Learned Only |
| 13 | 13 | Learned Only |
| 14 | 14 | Learned Only |
| 15 | 15 | Learned Only |
| 16 | 16 | Learned Only |
| Bright | Brght | Learned Only |
| Dim | Dim | Learned Only |
| Close | Close | Learned Only |
| Open | Open | Learned Only |
| Halt | Halt | Learned Only |
| AM/FM | AM/FM | Learned Only |
| Cue | Cue | Learned Only |
| Disk Up | DiskU | Learned Only |
| Disk Down | DiskD | Learned Only |
| Info | Info | Learned Only |
| External Src | ExtSr | Input Select |
| Live/Intro | Intro | Return to Live, Auto Track |
| Menu | Menu | Menu |
| Back | Back | Clear |
| Fav Channel | FavCh | Replay Zones, Indx Mark |
| Display Fmt | DFrmt | Record Speed |
| SAP | SAP | SAP, CC |
| Slow | Slow | Slow |
| PIP On | PIPOn | Learned Only |
| PIP Off | PIPOf | Learned Only |
| PIP Freeze | PIPFr | Learned Only |
| PIP Input | PIPIn | Learned Only |

| KEY FUNCTION | UNO-S1 | VCR |
|--------------|--------|----------------------|
| PIP Chan Up | PIPCU | Learned Only |
| PIP Chan Dn | PIPCD | Learned Only |
| Input 1 | ln 1 | VID1,Video,TVp1 |
| Input 2 | In 2 | VID2,TVp2 |
| Input 3 | In 3 | VID3,TVp3 |
| Input 4 | In 4 | VID4,TVp4 |
| Input 5 | In 5 | VID5,AV1,VCR,BNC |
| Input 6 | In 6 | VID6,AV2,VDP,DVD,DVI |
| Input 7 | In 7 | TV, Component |
| Input 8 | In 8 | CAB,SAT,S-Video |
| Input 9 | In 9 | AV, Tuner |
| Input 10 | In 10 | AUX, RGB |

INSTALLER KEY CODES LASER DISC

| KEY FUNCTION | UNO-S1 | LASER DISC | KEY FUNCTION | UNO-S1 | LASER DISC |
|--------------|--------|--------------------|--------------|--------|--------------------|
| 1 | 1 | Digit 1 | Pause | Pause | Pause |
| 2 | 2 | Digit 2 | Record | Recrd | Learned Only |
| 3 | 3 | Digit 3 | Menu | Menu | Menu, Program |
| 4 | 4 | Digit 4 | Menu Up | MenuU | Menu Up |
| 5 | 5 | 5Digit 5 | Menu Dn | MenuD | Menu Down |
| 6 | 6 | 6Digit 6 | Menu Left | MenuL | Menu Left |
| 7 | 7 | Digit 7 | Menu Right | MenuR | Menu Right |
| 8 | 8 | Digit 8 | Select | Sel | Menu Select |
| 9 | 9 | Digit 9 | Exit | Exit | Exit, Cancel |
| 0 | 0 | Digit 0 | Display | Displ | Display, OSD, Info |
| Volume Up | VolUp | Volume Up | Guide | Guide | Learned Only |
| Volume Down | VolDn | Volume Down | Page Up | PageU | Disk Skip, Disk Up |
| Mute | Mute | Mute | Page Down | PageD | Disk Down |
| Channel Up | Ch Up | Learned Only | Disk | Disk | Learned Only |
| Channel Dn | Ch Dn | Learned Only | Plus 10 | Pls10 | +10 |
| Power | Power | Power On/Off | Open/Close | Op/CI | Learned Only |
| Enter | Enter | Learned Only | Random | Randm | Learned Only |
| Prev Channel | PrvCh | Repeat | Track Fwd | TkFwd | Chapter/Skip Up |
| TV/Video | TVVid | Learned Only | Track Rev | TkRev | Chapter/Skip Down |
| TV/VCR | TVVCR | Learned Only | Sur On/Off | SurOn | Audio |
| A/B | A/B | Learned Only | Sur Mode | SurMd | Learned Only |
| TV/DVD | TVDVD | Learned Only | Surround Up | SurUp | Learned Only |
| TV/LD | TV LD | Learned Only | Surround Dn | SurDn | Learned Only |
| Input | Input | TV,LD,Input Select | PIP | PIP | Learned Only |
| TV/DSS | TVDSS | Learned Only | PIP Move | PIP M | Learned Only |
| Play | Play | Play | PIP Swap | PIP S | Learned Only |
| Stop | Stop | Stop | Program | Progm | Learned Only |
| Search Fwd | SrchF | Chapter/Skip Up | Sleep | Sleep | Learned Only |
| Search Rev | SrchR | Chapter/Skip Dn | On | On | On, Power On/Off |

INSTALLER KEY CODES LASER DISC

| KEY FUNCTION | UNO-S1 | LASER DISC |
|--------------|--------|---------------------------|
| Off | Off | Off, Power On/Off |
| 11 | 11 | Learned Only |
| 12 | 12 | Learned Only |
| 13 | 13 | Learned Only |
| 14 | 14 | Learned Only |
| 15 | 15 | Learned Only |
| 16 | 16 | Learned Only |
| Bright | Brght | Learned Only |
| Dim | Dim | Learned Only |
| Close | Close | Learned Only |
| Open | Open | Learned Only |
| Halt | Halt | Learned Only |
| AM/FM | AM/FM | Learned Only |
| Cue | Cue | Learned Only |
| Disk Up | DiskU | Learned Only |
| Disk Down | DiskD | Learned Only |
| Info | Info | Learned Only |
| External Src | ExtSr | Ext AV Src,CDV,VCD,Karaok |
| Live/Intro | Intro | Intro,Search,Scan |
| Menu | Menu | Learned Only |
| Back | Back | Learned Only |
| Fav Channel | FavCh | Mark |
| Display Fmt | DFrmt | Learned Only |
| SAP | SAP | Subtitle, CC |
| Slow | Slow | Slow |
| PIP On | PIPOn | Learned Only |
| PIP Off | PIPOf | Learned Only |
| PIP Freeze | PIPFr | Learned Only |
| PIP Input | PIPIn | Learned Only |

| KEY FUNCTION | UNO-S1 | LASER DISC |
|--------------|--------|----------------------|
| PIP Chan Up | PIPCU | Learned Only |
| PIP Chan Dn | PIPCD | Learned Only |
| Input 1 | ln 1 | VID1,Video,TVp1 |
| Input 2 | ln 2 | VID2,TVp2 |
| Input 3 | In 3 | VID3,TVp3 |
| Input 4 | In 4 | VID4,TVp4 |
| Input 5 | In 5 | VID5,AV1,VCR,BNC |
| Input 6 | In 6 | VID6,AV2,VDP,DVD,DVI |
| Input 7 | In 7 | TV, Component |
| Input 8 | In 8 | CAB,SAT,S-Video |
| Input 9 | In 9 | AV, Tuner |
| Input 10 | In 10 | AUX, RGB |

INSTALLER KEY CODES DVD

| KEY FUNCTION | UNO-S1 | DVD |
|--------------|--------|---------------------|
| 1 | 1 | Digit 1, Traack 1 |
| 2 | 2 | Digit 2, Track 2 |
| 3 | 3 | Digit 3, Track 3 |
| 4 | 4 | Digit 4, Track 4 |
| 5 | 5 | Digit 5, Track 5 |
| 6 | 6 | Digit 6, Track 6 |
| 7 | 7 | Digit 7, Track 7 |
| 8 | 8 | Digit 8,Track 8 |
| 9 | 9 | Digit 9, Track 9 |
| 0 | 0 | Digit 0, Track 10 |
| Volume Up | VolUp | Volume Up |
| Volume Down | VolDn | Volume Down |
| Mute | Mute | Mute |
| Channel Up | Ch Up | Channel Up |
| Channel Dn | Ch Dn | Channel Down |
| Power | Power | Power On/Off |
| Enter | Enter | Channel Enter |
| Prev Channel | PrvCh | Last Channel,Repeat |
| TV/Video | TVVid | Learned Only |
| TV/VCR | TVVCR | Learned Only |
| A/B | A/B | Learned Only |
| TV/DVD | TVDVD | Learned Only |
| TV/LD | TV LD | Learned Only |
| Input | Input | TV/DVD,Input Select |
| TV/DSS | TVDSS | Learned Only |
| Play | Play | Play |
| Stop | Stop | Stop |
| Search Fwd | SrchF | Fast Forward |
| Search Rev | SrchR | Rewind |

| KEY FUNCTION | UNO-S1 | DVD |
|--------------|--------|----------------------|
| Pause | Pause | Pause |
| Record | Recrd | Record |
| Menu | Menu | Disk Menu |
| Menu Up | MenuU | Menu Up |
| Menu Dn | MenuD | Menu Dn |
| Menu Left | MenuL | Menu Left |
| Menu Right | MenuR | Menu right |
| Select | Sel | Menu Select |
| Exit | Exit | Exit, Cancel, Return |
| Display | Displ | Display, OSD, Info |
| Guide | Guide | Title |
| Page Up | PageU | Disk Skip, Disk Up |
| Page Down | PageD | Disk Down |
| Disk | Disk | Learned Only |
| Plus 10 | Pls10 | +100. +10 |
| Open/Close | Op/CI | Learned Only |
| Random | Randm | Learned Only |
| Track Fwd | TkFwd | Chapter/Skip Up |
| Track Rev | TkRev | Chapter/Skip Down |
| Sur On/Off | SurOn | Audio, Language |
| Sur Mode | SurMd | Learned Only |
| Surround Up | SurUp | Learned Only |
| Surround Dn | SurDn | Learned Only |
| PIP | PIP | Learned Only |
| PIP Move | PIP M | Learned Only |
| PIP Swap | PIP S | Learned Only |
| Program | Progm | Learned Only |
| Sleep | Sleep | Learned Only |
| On | On | On, Power On/Off |

INSTALLER KEY CODES DVD

| KEY FUNCTION | UNO-S1 | DVD |
|--------------|--------|-------------------------|
| Off | Off | Off, Power On/Off |
| 11 | 11 | Learned Only |
| 12 | 12 | Learned Only |
| 13 | 13 | Learned Only |
| 14 | 14 | Learned Only |
| 15 | 15 | Learned Only |
| 16 | 16 | Learned Only |
| Bright | Brght | Learned Only |
| Dim | Dim | Learned Only |
| Close | Close | Learned Only |
| Open | Open | Learned Only |
| Halt | Halt | Learned Only |
| AM/FM | AM/FM | Learned Only |
| Cue | Cue | Learned Only |
| Disk Up | DiskU | Learned Only |
| Disk Down | DiskD | Learned Only |
| Info | Info | Learned Only |
| External Src | ExtSr | External AV Source |
| Live/Intro | Intro | Intro,Search,Scan |
| Menu | Menu | Setup Menu |
| Back | Back | Clear |
| Fav Channel | FavCh | Mark |
| Display Fmt | DFrmt | Format Wide,Zoom,Aspect |
| SAP | SAP | Subtitle, CC |
| Slow | Slow | Slow |
| PIP On | PIPOn | Learned Only |
| PIP Off | PIPOf | Learned Only |
| PIP Freeze | PIPFr | Learned Only |
| PIP Input | PIPIn | Learned Only |

| KEY FUNCTION | UNO-S1 | DVD |
|--------------|--------|----------------------|
| PIP Chan Up | PIPCU | Learned Only |
| PIP Chan Dn | PIPCD | Learned Only |
| Input 1 | ln 1 | VID1,Video,TVp1 |
| Input 2 | In 2 | VID2,TVp2 |
| Input 3 | In 3 | VID3,TVp3 |
| Input 4 | In 4 | VID4,TVp4 |
| Input 5 | In 5 | VID5,AV1,VCR,BNC |
| Input 6 | In 6 | VID6,AV2,VDP,DVD,DVI |
| Input 7 | In 7 | TV, Component |
| Input 8 | In 8 | CAB,SAT,S-Video |
| Input 9 | In 9 | AV, Tuner |
| Input 10 | In 10 | AUX, RGB |

INSTALLER KEY CODES RECEIVER

| KEY FUNCTION | UNO-S1 | RECEIVER | KEY FUNCTION | UNO-S1 | RECEIVER |
|--------------|--------|------------------------|--------------|--------|----------------------------|
| 1 | 1 | Digit 1 | Pause | Pause | Pause |
| 2 | 2 | Digit 2 | Record | Recrd | Record |
| 3 | 3 | Digit 3 | Menu | Menu | Disk menu, Menu |
| 4 | 4 | Digit 4 | Menu Up | MenuU | Menu Up, Adjust Up |
| 5 | 5 | Digit 5 | Menu Dn | MenuD | Menu Dn, Adjust Dn |
| 6 | 6 | Digit 6 | Menu Left | MenuL | Menu Left |
| 7 | 7 | Digit 7 | Menu Right | MenuR | Menu Right |
| 8 | 8 | Digit 8 | Select | Sel | MenuS elect, Continue |
| 9 | 9 | Digit 9 | Exit | Exit | Exit, Cancel |
| 0 | 0 | Digit 0 | Display | Displ | Display, OSD, Info |
| Volume Up | VolUp | Volume Up | Guide | Guide | Title |
| Volume Down | VolDn | Volume Down | Page Up | PageU | Adjust Up |
| Mute | Mute | Mute | Page Down | PageD | Adjust Down |
| Channel Up | Ch Up | Preset Up | Disk | Disk | Learned Only |
| Channel Dn | Ch Dn | Preset Down | Plus 10 | Pls10 | Band, FM/AM |
| Power | Power | Power On/Off | Open/Close | Op/CI | Learned Only |
| Enter | Enter | 5.1, Prologic | Random | Randm | Random |
| Prev Channel | PrvCh | Last Channel, Repeat | Track Fwd | TkFwd | Skip Up |
| TV/Video | TVVid | Learned Only | Track Rev | TkRev | Skip Down |
| TV/VCR | TVVCR | Learned Only | Sur On/Off | SurOn | Srrd Mode/On Off,Aduo Lang |
| A/B | A/B | Learned Only | Sur Mode | SurMd | Learned Only |
| TV/DVD | TVDVD | Learned Only | Surround Up | SurUp | Learned Only |
| TV/LD | TV LD | Learned Only | Surround Dn | SurDn | Learned Only |
| Input | Input | DVD/Tuner,Input Select | PIP | PIP | Learned Only |
| TV/DSS | TVDSS | Learned Only | PIP Move | PIP M | Learned Only |
| Play | Play | Play | PIP Swap | PIP S | Learned Only |
| Stop | Stop | Stop | Program | Progm | Learned Only |
| Search Fwd | SrchF | Fast Forward | Sleep | Sleep | Learned Only |
| Search Rev | SrchR | Rewind | On | On | On, Power On/Off |

INSTALLER KEY CODES RECEIVER

| KEY FUNCTION | UNO-S1 | RECEIVER |
|--------------|--------|------------------------|
| Off | Off | Off, Power On/Off |
| 11 | 11 | Learned Only |
| 12 | 12 | Learned Only |
| 13 | 13 | Learned Only |
| 14 | 14 | Learned Only |
| 15 | 15 | Learned Only |
| 16 | 16 | Learned Only |
| Bright | Brght | Learned Only |
| Dim | Dim | Learned Only |
| Close | Close | Learned Only |
| Open | Open | Learned Only |
| Halt | Halt | Learned Only |
| AM/FM | AM/FM | Learned Only |
| Cue | Cue | Learned Only |
| Disk Up | DiskU | Learned Only |
| Disk Down | DiskD | Learned Only |
| Info | Info | Learned Only |
| External Src | ExtSr | External AV Source |
| Live/Intro | Intro | Intro,Search,Scan |
| Menu | Menu | Menu |
| Back | Back | Clear |
| Fav Channel | FavCh | Mark |
| Display Fmt | DFrmt | FormatWide,Zoom,Aspect |
| SAP | SAP | Learned Only |
| Slow | Slow | Slow |
| PIP On | PIPOn | Learned Only |
| PIP Off | PIPOf | Learned Only |
| PIP Freeze | PIPFr | Learned Only |
| PIP Input | PIPIn | Learned Only |

| KEY FUNCTION | UNO-S1 | RECEIVER |
|--------------|--------|------------------|
| PIP Chan Up | PIPCU | Learned Only |
| PIP Chan Dn | PIPCD | Learned Only |
| Input 1 | In 1 | CD |
| Input 2 | In 2 | Tuner |
| Input 3 | In 3 | DVD, LD |
| Input 4 | In 4 | VCR, VID1 |
| Input 5 | In 5 | VID5,AV1,VCR,BNC |
| Input 6 | In 6 | TV, VID2 |
| Input 7 | In 7 | LD, VID3 |
| Input 8 | In 8 | AUX, VID4 |
| Input 9 | In 9 | DAT, Cable |
| Input 10 | In 10 | Phono SAT |

INSTALLER KEY CODES AMP/MISC AUDIO

| KEY FUNCTION | UNO-S1 | AMP/MISC AUDIO | KEY FUNCTION | UNO-S1 | AMP/MISC AUDIO |
|--------------|--------|-------------------|--------------|--------|----------------------------|
| 1 | 1 | Digit 1 | Pause | Pause | Pause |
| 2 | 2 | Digit 2 | Record | Recrd | Record |
| 3 | 3 | Digit 3 | Menu | Menu | Menu, Program |
| 4 | 4 | Digit 4 | Menu Up | MenuU | Menu Up, Adjust Up |
| 5 | 5 | Digit 5 | Menu Dn | MenuD | Menu Dn, Adjust Dn |
| 6 | 6 | Digit 6 | Menu Left | MenuL | Menu Left |
| 7 | 7 | Digit 7 | Menu Right | MenuR | Menu Right |
| 8 | 8 | Digit 8 | Select | Sel | Menu Select, Cont |
| 9 | 9 | Digit 9 | Exit | Exit | Exit, Cancel |
| 0 | 0 | Digit 0 | Display | Displ | Display, OSD, Info |
| Volume Up | VolUp | Volume Up | Guide | Guide | Learned Only |
| Volume Down | VolDn | Volume Down | Page Up | PageU | Adjust Up |
| Mute | Mute | Mute | Page Down | PageD | Adjust Down |
| Channel Up | Ch Up | Preset Up | Disk | Disk | Learned Only |
| Channel Dn | Ch Dn | Preset Down | Plus 10 | Pls10 | Band, FM/AM |
| Power | Power | Power On/Off | Open/Close | Op/CI | Learned Only |
| Enter | Enter | 5.1, Prologic | Random | Randm | Learned Only |
| Prev Channel | PrvCh | Repeat | Track Fwd | TkFwd | Skip Up |
| TV/Video | TVVid | Learned Only | Track Rev | TkRev | Skip Down |
| TV/VCR | TVVCR | Learned Only | Sur On/Off | SurOn | Srrd Mode/On Off,Aduo Lang |
| A/B | A/B | Learned Only | Sur Mode | SurMd | Learned Only |
| TV/DVD | TVDVD | Learned Only | Surround Up | SurUp | Learned Only |
| TV/LD | TV LD | Learned Only | Surround Dn | SurDn | Learned Only |
| Input | Input | Bypass,Input Slct | PIP | PIP | Learned Only |
| TV/DSS | TVDSS | Learned Only | PIP Move | PIP M | Learned Only |
| Play | Play | Play | PIP Swap | PIP S | Learned Only |
| Stop | Stop | Stop | Program | Progm | Learned Only |
| Search Fwd | SrchF | Fast Forward | Sleep | Sleep | Learned Only |
| Search Rev | SrchR | Rewind | On | On | On, Power On/Off |

INSTALLER KEY CODES AMP/MISC AUDIO

| KEY FUNCTION | UNO-S1 | AMP/MISC AUDIO | KEY FUNCTION | UNO-S1 | AMP/MISC AUDIO |
|--------------|--------|--------------------|--------------|--------|----------------|
| Off | Off | Off, Power On/Off | PIP Chan Up | PIPCU | Learned Only |
| 11 | 11 | Learned Only | PIP Chan Dn | PIPCD | Learned Only |
| 12 | 12 | Learned Only | Input 1 | ln 1 | CD |
| 13 | 13 | Learned Only | Input 2 | ln 2 | Tuner |
| 14 | 14 | Learned Only | Input 3 | In 3 | DVD, LD |
| 15 | 15 | Learned Only | Input 4 | In 4 | TAPE, MD |
| 16 | 16 | Learned Only | Input 5 | In 5 | VCR, VID1 |
| Bright | Brght | Learned Only | Input 6 | In 6 | TV, VID2 |
| Dim | Dim | Learned Only | Input 7 | In 7 | LD, VID3 |
| Close | Close | Learned Only | Input 8 | In 8 | AUX, VID4 |
| Open | Open | Learned Only | Input 9 | In 9 | DAT, Cable |
| Halt | Halt | Learned Only | Input 10 | In 10 | Phono, SAT |
| AM/FM | AM/FM | Learned Only | | - | |
| Cue | Cue | Learned Only | | | |
| Disk Up | DiskU | Learned Only | | | |
| Disk Down | DiskD | Learned Only | | | |
| Info | Info | Learned Only | | | |
| External Src | ExtSr | External AV Source | | | |
| Live/Intro | Intro | Intro,Search,Scan | | | |
| Menu | Menu | Learned Only | | | |
| Back | Back | Clear | | | |
| Fav Channel | FavCh | Learned Only | | | |
| Display Fmt | DFrmt | Learned Only | | | |
| SAP | SAP | Learned Only | | | |
| Slow | Slow | Learned Only | | | |
| PIP On | PIPOn | Learned Only | | | |
| PIP Off | PIPOf | Learned Only | | | |
| PIP Freeze | PIPFr | Learned Only | | | |
| PIP Input | PIPIn | Learned Only | | | |

| UNO-S1 | AMP/MISC AUDIO |
|--------|----------------------------------------------------------|
| PIPCU | Learned Only |
| PIPCD | Learned Only |
| ln 1 | CD |
| ln 2 | Tuner |
| In 3 | DVD, LD |
| In 4 | TAPE, MD |
| In 5 | VCR, VID1 |
| In 6 | TV, VID2 |
| In 7 | LD, VID3 |
| In 8 | AUX, VID4 |
| In 9 | DAT, Cable |
| In 10 | Phono, SAT |
| | PIPCU PIPCD In 1 In 2 In 3 In 4 In 5 In 6 In 7 In 8 In 9 |

INSTALLER KEY CODES CD

| KEY FUNCTION | UNO-S1 | CD | KEY FUNCTION | UNO-S1 | CD |
|--------------|--------|------------------------|--------------|--------|--------------------|
| 1 | 1 | Digit 1, Track 1,Dsc1 | Pause | Pause | Pause |
| 2 | 2 | Digit 2, Track 2,Dsc2 | Record | Recrd | Record |
| 3 | 3 | Digit 3, Track 3,Dsc3 | Menu | Menu | Disk, Edit |
| 4 | 4 | Digit 4, Track 4,Dsc4 | Menu Up | MenuU | Menu Up |
| 5 | 5 | Digit 5, Track 5,Dsc5 | Menu Dn | MenuD | Menu Down |
| 6 | 6 | Digit 6, Track 6,Dsc6 | Menu Left | MenuL | Menu Left |
| 7 | 7 | Digit 7, Track 7,Dsc7 | Menu Right | MenuR | Menu Right |
| 8 | 8 | Digit 8,Track 8,Dsc8 | Select | Sel | Menu Select, Cont |
| 9 | 9 | Digit 9, Track 9,Dsc9 | Exit | Exit | Exit, Cancel |
| 0 | 0 | Digit 0, Trck10,Dsc10 | Display | Displ | Display, OSD, Info |
| Volume Up | VolUp | Volume Up | Guide | Guide | Group,Magazine |
| Volume Down | VolDn | Volume Down | Page Up | PageU | Disk Skip, Disk Up |
| Mute | Mute | Mute | Page Down | PageD | Disk Down |
| Channel Up | Ch Up | Learned Only | Disk | Disk | Learned Only |
| Channel Dn | Ch Dn | Learned Only | Plus 10 | Pls10 | +10, +100 |
| Power | Power | Power On/Off | Open/Close | Op/CI | Learned Only |
| Enter | Enter | Set | Random | Randm | Learned Only |
| Prev Channel | PrvCh | Repeat | Track Fwd | TkFwd | Skip Up |
| TV/Video | TVVid | Learned Only | Track Rev | TkRev | Skip Down |
| TV/VCR | TVVCR | Learned Only | Sur On/Off | SurOn | Learned Only |
| A/B | A/B | Learned Only | Sur Mode | SurMd | Learned Only |
| TV/DVD | TVDVD | Learned Only | Surround Up | SurUp | Learned Only |
| TV/LD | TV LD | Learned Only | Surround Dn | SurDn | Learned Only |
| Input | Input | DVD/Tuner Input Select | PIP | PIP | Learned Only |
| TV/DSS | TVDSS | Learned Only | PIP Move | PIP M | Learned Only |
| Play | Play | Play | PIP Swap | PIP S | Learned Only |
| Stop | Stop | Stop | Program | Progm | Learned Only |
| Search Fwd | SrchF | Fast Forward | Sleep | Sleep | Learned Only |
| Search Rev | SrchR | Rewind | On | On | On, Power On/Off |

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INSTALLER KEY CODES CD

| KEY FUNCTION | UNO-S1 | CD |
|--------------|--------|------------------------|
| Off | Off | Off, Power On/Off |
| 11 | 11 | Learned Only |
| 12 | 12 | Learned Only |
| 13 | 13 | Learned Only |
| 14 | 14 | Learned Only |
| 15 | 15 | Learned Only |
| 16 | 16 | Learned Only |
| Bright | Brght | Learned Only |
| Dim | Dim | Learned Only |
| Close | Close | Learned Only |
| Open | Open | Learned Only |
| Halt | Halt | Learned Only |
| AM/FM | AM/FM | Learned Only |
| Cue | Cue | Learned Only |
| Disk Up | DiskU | Learned Only |
| Disk Down | DiskD | Learned Only |
| Info | Info | Learned Only |
| External Src | ExtSr | CD/CDR/MD,Input Select |
| Live/Intro | Intro | Intro,Search,Scan |
| Menu | Menu | Menu, Program |
| Back | Back | Track, Clear |
| Fav Channel | FavCh | Finalize, Index |
| Display Fmt | DFrmt | Learned Only |
| SAP | SAP | Learned Only |
| Slow | Slow | Learned Only |
| PIP On | PIPOn | Learned Only |
| PIP Off | PIPOf | Learned Only |
| PIP Freeze | PIPFr | Learned Only |
| PIP Input | PIPIn | Learned Only |

| KEY FUNCTION | UNO-S1 | CD |
|--------------|--------|--------------|
| PIP Chan Up | PIPCU | Learned Only |
| PIP Chan Dn | PIPCD | Learned Only |
| Input 1 | ln 1 | CD |
| Input 2 | ln 2 | Tuner |
| Input 3 | In 3 | DVD, LD |
| Input 4 | ln 4 | Tape, MD |
| Input 5 | ln 5 | VCR, VID1 |
| Input 6 | In 6 | TV, VID2 |
| Input 7 | ln 7 | LD, VID3 |
| Input 8 | In 8 | AUX, VID4 |
| Input 9 | ln 9 | DAT, Cable |
| Input 10 | ln 10 | Phono, SAT |

INSTALLER KEY CODES HOME CONTROL

| KEY FUNCTION | UNO-S1 | HOME CONTROL | KEY FUNCTION | UNO-S1 | HOME CONTROL |
|--------------|--------|-------------------|--------------|--------|---------------------|
| 1 | 1 | Digit 1 | Pause | Pause | Pause |
| 2 | 2 | Digit 2 | Record | Recrd | Record |
| 3 | 3 | Digit 3 | Menu | Menu | Menu |
| 4 | 4 | Digit 4 | Menu Up | MenuU | Menu Up, Mode |
| 5 | 5 | Digit 5 | Menu Dn | MenuD | Menu Dn, Timer |
| 6 | 6 | Digit 6 | Menu Left | MenuL | Menu Left,Oscillate |
| 7 | 7 | Digit 7 | Menu Right | MenuR | Menu Right,Speed |
| 8 | 8 | Digit 8 | Select | Sel | Menu Select, Light |
| 9 | 9 | Digit 9 | Exit | Exit | Exit, Cancel |
| 0 | 0 | Digit 0 | Display | Displ | Learned Only |
| Volume Up | VolUp | Volume Up | Guide | Guide | Learned Only |
| Volume Down | VolDn | Volume Down | Page Up | PageU | Learned Only |
| Mute | Mute | Mute | Page Down | PageD | Learned Only |
| Channel Up | Ch Up | Bright,Raise Up | Disk | Disk | Learned Only |
| Channel Dn | Ch Dn | Dim,Lower Down | Plus 10 | Pls10 | Learned Only |
| Power | Power | Power On/Off | Open/Close | Op/CI | Learned Only |
| Enter | Enter | Learned Only | Random | Randm | Learned Only |
| Prev Channel | PrvCh | Learned Only | Track Fwd | TkFwd | Learned Only |
| TV/Video | TVVid | Learned Only | Track Rev | TkRev | Learned Only |
| TV/VCR | TVVCR | Learned Only | Sur On/Off | SurOn | Learned Only |
| A/B | A/B | Learned Only | Sur Mode | SurMd | Learned Only |
| TV/DVD | TVDVD | Learned Only | Surround Up | SurUp | Learned Only |
| TV/LD | TV LD | Learned Only | Surround Dn | SurMd | Learned Only |
| Input | Input | Home, Source | PIP | PIP | Learned Only |
| TV/DSS | TVDSS | Learned Only | PIP Move | PIP M | Learned Only |
| Play | Play | Play | PIP Swap | PIP S | Learned Only |
| Stop | Stop | Stop | Program | Progm | Learned Only |
| Search Fwd | SrchF | Fast Forward,Open | Sleep | Sleep | Learned Only |
| Search Rev | SrchR | Rewind, Close | On | On | On, Power On/Off |

INSTALLER KEY CODES HOME CONTROL

| KEY FUNCTION | UNO-S1 | HOME CONTROL |
|--------------|--------|-------------------|
| Off | Off | Off, Power On/Off |
| 11 | 11 | Learned Only |
| 12 | 12 | Learned Only |
| 13 | 13 | Learned Only |
| 14 | 14 | Learned Only |
| 15 | 15 | Learned Only |
| 16 | 16 | Learned Only |
| Bright | Brght | Learned Only |
| Dim | Dim | Learned Only |
| Close | Close | Learned Only |
| Open | Open | Learned Only |
| Halt | Halt | Learned Only |
| AM/FM | AM/FM | Learned Only |
| Cue | Cue | Learned Only |
| Disk Up | DiskU | Learned Only |
| Disk Down | DiskD | Learned Only |
| Info | Info | Learned Only |
| External Src | ExtSr | External Source |
| Live/Intro | Intro | Learned Only |
| Menu | Menu | Learned Only |
| Back | Back | Learned Only |
| Fav Channel | FavCh | Learned Only |
| Display Fmt | DFrmt | Learned Only |
| SAP | SAP | Learned Only |
| Slow | Slow | All On |
| PIP On | PIPOn | Learned Only |
| PIP Off | PIPOf | Learned Only |
| PIP Freeze | PIPFr | Learned Only |
| PIP Input | PIPIn | Learned Only |

| KEY FUNCTION | UNO-S1 | HOME CONTROL |
|--------------|--------|-----------------|
| PIP Chan Up | PIPCU | Learned Only |
| PIP Chan Dn | PIPCD | Learned Only |
| Input 1 | ln 1 | Source/Scene 1 |
| Input 2 | ln 2 | Source/Scene 2 |
| Input 3 | In 3 | Source/Scene 3 |
| Input 4 | ln 4 | Source/Scene 4 |
| Input 5 | ln 5 | Source/Scene 5 |
| Input 6 | In 6 | Source/Scene 6 |
| Input 7 | In 7 | Source/Scene 7 |
| Input 8 | In 8 | Source/Scene 8 |
| Input 9 | In 9 | Source/Scene 9 |
| Input 10 | ln 10 | Source/Scene 10 |

INSTALLER SOURCE NAMES

| UNO-S1 | UNO-S2 | UNO-S1 | UNO-S2 | UNO-S1 | UNO-S2 |
|--------|--------------|--------|--------------|--------|---------------|
| Aux | AUX | | CustomName3 | DVD 3 | DVD Player 3 |
| Aux 1 | AUX 1 | | CustomName4 | FDoor | Front Door |
| Aux 2 | AUX 2 | | CustomName5 | Hers | Her Music |
| Blues | Blues | | CustomName6 | His | His Music |
| Cable | Cable | | CustomName7 | www. | Intrnet Radio |
| Cbl 1 | Cable 1 | | CustomName8 | Jazz | Jazz |
| Cbl 2 | Cable 2 | | CustomName9 | Kids | Kids Music |
| Cbl 3 | Cable 3 | | CustomName10 | LD | Laser Disk |
| CDCh | CD Changer | Dance | Dance Music | MSrvr | Media Server |
| CDCh1 | CD Changer 1 | DigCb | Digitl Cable | MSvr1 | Media Svr 1 |
| CDCh2 | CD Changer 2 | DSS | DSS Receiver | MSvr2 | Media Svr 2 |
| CDCh3 | CD Changer 3 | DSS 1 | DSS 1 | MSvr3 | Media Svr 3 |
| CD | CD Player | DSS 2 | DSS 2 | MiniD | Mini Disk |
| CD 1 | CD Player 1 | DSS 3 | DSS 3 | Misc | Misc Lrnd IR |
| CD 2 | CD Player 2 | DVDCh | DVD Changer | Mood | Mood Music |
| CD 3 | CD Player 3 | DVDC1 | DVD Changr1 | MornM | MorningMusic |
| Class | Classical | DVDC2 | DVD Changr2 | MP3 | MP3 |
| Compr | Computer | DVDC3 | DVD Changr3 | Oldes | Oldies |
| Cntry | Country | DVD | DVD Player | Pop | Pop |
| | CustomName1 | DVD 1 | DVD Player 1 | RDoor | Rear Door |
| | CustomName2 | DVD 2 | DVD Player 2 | Relig | Religious |

INSTALLER SOURCE NAMES

| UNO-S1 | UNO-S2 |
|--------|-------------|
| RepTV | Replay TV |
| Rock | Rock |
| Sat | Satellite |
| Sat 1 | Satellite 1 |
| Sat 2 | Satellite 2 |
| Sat 3 | Satellite 3 |
| SatRd | Sat Radio |
| Src 1 | Source 1 |
| Src 2 | Source 2 |
| Src 3 | Source 3 |
| Src 4 | Source 4 |
| Src 5 | Source 5 |
| Src 6 | Source 6 |
| Src 7 | Source 7 |
| Src 8 | Source 8 |
| Spcl | Special |
| Tape | Таре |
| Tape1 | Tape 1 |
| Tape2 | Tape 2 |
| TiVo | TIVO |
| Tuner | Tuner |

| UNO-S1 | UNO-S2 |
|-----------|--------------------------|
| Tun 1 | Tuner 1 |
| Tun 2 | Tuner 2 |
| Tun 3 | Tuner 3 |
| TV | TV |
| VCR | VCR |
| VCR 1 | VCR 1 |
| VCR 2 | VCR 2 |
| <xm></xm> | << <xm>>>></xm> |
| XM 1 | XM 1 |
| XM 2 | XM 2 |
| XM 3 | XM 3 |
| XM | XM Radio |

SAMPLE CONFIGURATIONS MULTIPLE CONTROLLERS WITH ONE TUNER

Sharing a single CAM6.6X (internal tuner) with multiple controllers

This arrangement can support up to six CAM6.6 units for up to 36 zones/6 sources. Each additional CAM6.6 must have an incremental Controller ID # and RNET link. Audio from the source tuner can be split if used for all controllers.

CAM6.6X -

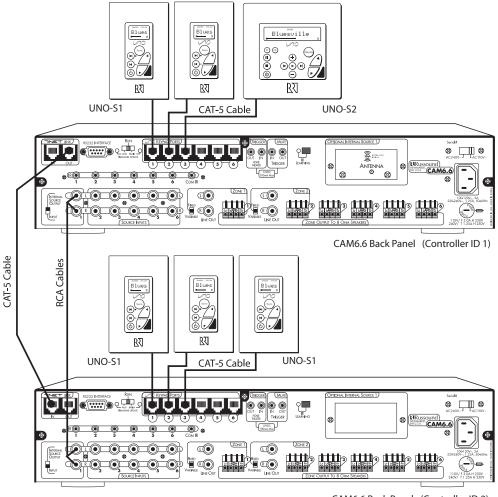
Controller Setup Menu: Controller ID = 1

Peripheral Setup Menu: Controller ID = All Controllers Output/Input Switch = Internal Source Output RCA cable connected to Source 1

CAM6.6 (no tuner installed) -

Controller Setup Menu: Controller ID = 2 Source Setup Menu: Basic Setup Procedure: Source # = 1; Source Name = Tuner; Command Type = Peripheral

Output/Input Switch = Input RCA cable connected to Source 1



CAM6.6 Back Panel (Controller ID 2)

SAMPLE CONFIGURATIONS MULTIPLE CONTROLLERS WITH TWO TUNERS

System with two CAM6.6X (internal tuner) controllers

The configuration below is suitable for 7-12 zones that will have access to the tuner in the controller to which its keypad is connected only. Built-in tuners are always Source 1 and cannot be changed. If you have more than one internal tuner, you must set each tuner to its specific Controller ID number. If you want each controller to have access to dual tuners, a suggested solution is to use an ST2 Dual Tuner with two CAM6.6s as shown on the next page.

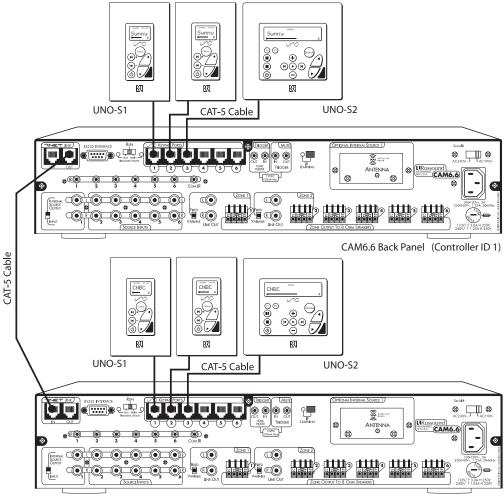
CAM6.6X (1) -

Controller Setup Menu: Controller ID = 1Peripheral Setup Menu: Controller ID = 1

CAM6.6X (2) -

Controller Setup Menu: Controller ID = 2Peripheral Setup Menu: Controller ID = 2

A CAT-5 patch cable is use to connect the RNET Link Out of Controller 1 to the RNET Link In of Controller 2.



CAM6.6 Back Panel (Controller ID 2)

SAMPLE CONFIGURATIONS MULTIPLE CONTROLLERS WITH THREE TUNERS

Sharing an ST2 Dual Tuner with multiple CAM6.6 controllers (with and without tuners)

The configuration below is suitable for 7 to 12 zones that can access the ST2 Dual Tuner and the CAM6.6X tuner. This configuration uses RCA "Y" cables from the ST2 Tuner source outputs to connect to both CAM6.6 source inputs.

CAM6.6X -

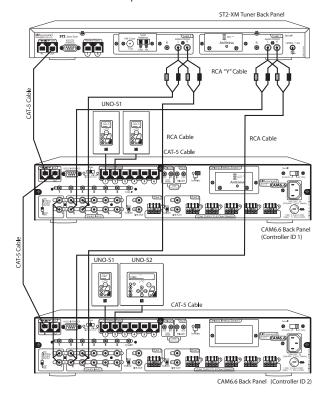
Controller Setup Menu: Controller ID = 1
Peripheral Setup Menu: Controller ID = All Controllers
Source Setup Menu: Basic Setup Procedure:
Source # = 2; Source Name = XM;
Command Type = Peripheral
Source # = 3; Source Name = AM/FM;
Command Type = Peripheral
Output/Input Switch = Internal Source Output
RCA cable connected from Source 1 audio output on
CAM6.6X (1) to Source 1 input on CAM6.6 (2)
RCA cable connected from ST2 Tuner 1 audio output

to Source 2 input on CAM6.6X (1) RCA cable connected from ST2 Tuner 2 audio output to Source 3 input on CAM6.6X (1)

CAM6.6 (no tuner installed) -

Controller Setup Menu: Controller ID = 2
Source Setup Menu: Basic Setup Procedure:
Source # = 1; Source Name = Tuner;
Command Type = Peripheral
Source # = 2; Source Name = XM;
Command Type = Peripheral
Source # = 3; Source Name = AM/FM;
Command Type = Peripheral
Output/Input Switch = Input
RCA cable connected from Source 1 audio output on
CAM6.6X (1) to Source 1 input on CAM6.6 (2)
RCA cable connected from ST2 Tuner 1 audio output
to Source 2 input on CAM6.6 (2)

RCA cable connected from ST2 Tuner 2 audio output to Source 3 input on CAM6.6 (2)



SAMPLE CONFIGURATIONS MULTIPLE CONTROLLERS WITH ST2 DUAL TUNER

Sharing an ST2 Dual Tuner with multiple CAM6.6 controllers (no built-in tuners)

This configuration is suitable for 7 to 12 zones that can all access the ST2 Dual Tuner. This configuration uses RCA "Y" cables from the ST2 Tuner source outputs to connect to both CAM6.6 source inputs.

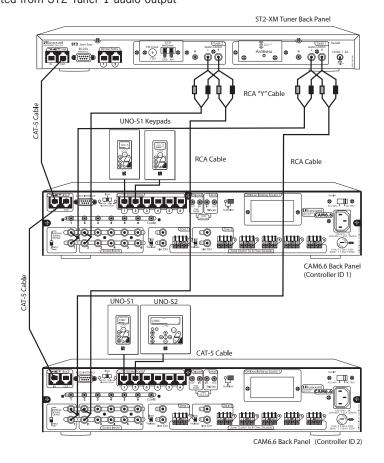
CAM6.6 (no tuner installed) -

Controller Setup Menu: Controller ID = 1
Source Setup Menu: Basic Setup Procedure:
Source # = 1; Source Name = Tuner 1;
Command Type = Peripheral
Source # = 2; Source Name = Tuner 2;
Command Type = Peripheral
Output/Input Switch = Input
RCA cable connected from ST2 Tuner 1 audio output

to Source 1 input on CAM6.6 (1) RCA cable connected from ST2 Tuner 2 audio output to Source 2 input on CAM6.6 (1)

CAM6.6 (no tuner installed) -

Controller Setup Menu: Controller ID = 2
Source Setup Menu: Basic Setup Procedure:
Source # = 1; Source Name = Tuner 1;
Command Type = Peripheral
Source # = 2; Source Name = Tuner 2;
Command Type = Peripheral
Output/Input Switch = Input
RCA cable connected from ST2 Tuner 1 audio output to Source 1 input on CAM6.6 (1)
RCA cable connected from ST2 Tuner 2 audio output to Source 2 input on CAM6.6 (2)



110

TECHNICAL SPECIFICATIONS

Dimensions: 17"W x 12"D x 3.5"H (43 x 30.5 x 9 cm)

Weight: 18 lbs. (8.1 kg)

Power Supply: 110 or 240 VAC

Fuse Rating: 110V input; F3A H 250V US and Canada

240V input; T1.25A H 250V Europe

Frequency Response: 20Hz-20kHz +/- 1dB

Watts per channel: 20 Watts RMS into 8 Ohms

THD+N: <0.05%

Signal to Noise Ratio: >88dB

Audio Source Inputs: 6 (including internal tuner)

Input Impedance: 50 kohm

Audio Zone Outputs: 6 Speaker Level (8 ohms)

(2 Line level)

Max Source Audio Input: 2.2 Vrms

Max Zone Variable Line Audio Output: 2.2 Vrms

Max Zone Fixed Line Audio Output: 2.2 Vrms

Trigger Outputs: 1 Common. 12VDC 100mA

Trigger Inputs: 1 Home Theater 12VDC Max

ΧM

XM Band: 2332.5 - 2345 MHz

XM Antenna: 50-ohm SMB connection

It is prohibited to copy, decompile, disassemble, reverse engineer, or manipulate any technology incorporated in receivers compatible with the XM Satellite Radio system. Furthermore, the AMBE® voice compression software included in this product is protected by intellectual property rights including patent rights, copyrights, and trade secrets of Digital Voice Systems, Inc. The user of this or any other software contained in an XM radio is explicitly prohibited from attempting to copy, decompile, reverse engineer, or disassemble the object code, or in any way convert the object code into human-readable form. The software is licensed solely for use within this product.

WARRANTY & REPAIR

The Russound CAM6.6 is fully guaranteed against all defects in materials and workmanship for two (2) years from the date of purchase. During this period, Russound will replace any defective parts and correct any defect in workmanship without charge for either parts or labor.

For this warranty to apply, the unit must be installed and used according to its written instructions. If service is necessary, it must be performed by Russound. The unit must be returned to Russound at the owner's expense and with prior written permission. Accidental damage and shipping damage are not considered defects, nor is damage resulting from abuse or from servicing by an agency or person not specifically authorized in writing by Russound.

This Warranty does not cover:

- Damage caused by abuse, accident, misuse, negligence, or improper installation or operation
- Power surges and lightning strikes
- Normal wear and maintenance
- Products that have been altered or modified
- Any product whose identifying number, decal, serial number, etc. has been altered, defaced or removed

Russound sells products only through authorized Dealers and Distributors to ensure that customers obtain proper support and service. Any Russound product purchased from an unauthorized dealer or other source, including retailers, mail order sellers and online sellers will not be honored or serviced under existing Russound warranty policy. Any sale of products by an unauthorized source or other manner not authorized by Russound shall void the warranty on the applicable product.

Damage to or destruction of components due to application of excessive power voids the warranty on those parts. In these cases, repairs will be made on the basis of the retail value of the parts and labor. To return for repairs, the unit must be shipped to Russound at the owner's expense, along with a note explaining the nature of service required. Be sure to pack the unit in a corrugated container with at least three (3) inches of resilient material to protect the unit from damage in transit.

Before returning a unit for repair, call Russound at (603) 659-5170 for a Return Authorization number. Write this number on the shipping label and ship to:

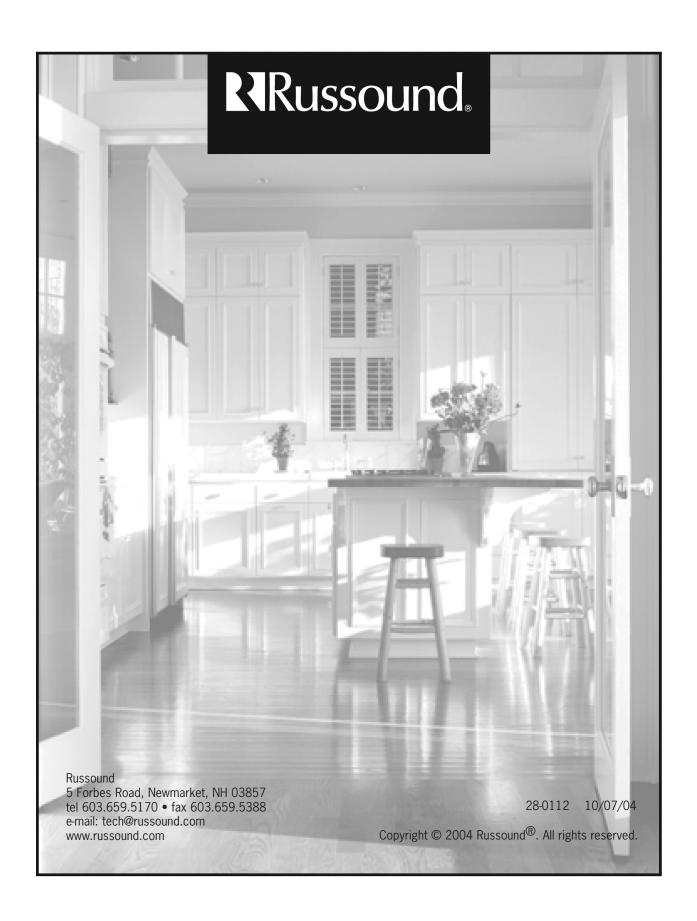
Russound ATTN: Service 5 Forbes Road Newmarket, NH 03857

Due to continual efforts to improve product quality as new technology and techniques become available, Russound/FMP, Inc. reserves the right to revise system specifications without notice.

NOTES

NOTES

NOTES



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