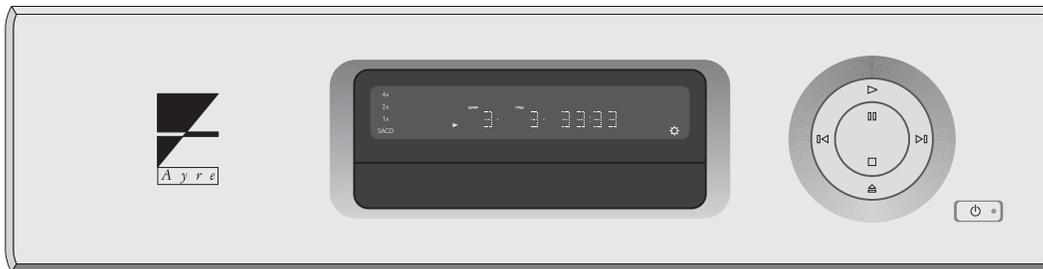


Ayre C-5xe

# Owner's Manual

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Universal Stereo Player

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Welcome to

# Ayre

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*Please send in your warranty  
registration card so we can  
stay in contact with you.*

Your Ayre C-5xe offers a significant advance in the musical performance of high-fidelity equipment. The warmth and immediacy of a live performance are apparent from the first listening. The combination of superb resolution and a natural, relaxed quality will draw you into the music, time and time again.

This level of performance has been implemented using the highest level of workmanship and materials. You can be assured that the Ayre C-5xe will provide you a lifetime of musical enjoyment.

## Overview and

# Introduction

---

*To provide the highest possible level of audio performance, there is no video circuitry in the C-5xe.*

The Ayre C-5xe is a universal stereo (U2) player. It plays all currently available audio disc formats, including CD, SACD, DVD-Audio, DVD-Video (soundtrack only), and MP3.

The C-5xe offers both stereo analog and PCM digital outputs. Multi-channel discs may also be played. In the case of multi-channel SACDs, the C-5xe will automatically select the two-channel area that is mandatory for SACD. In the case of multi-channel tracks that may be present on DVD-Audio or DVD-Video discs, the C-5xe will automatically downmix to stereo.

*For the foreseeable future CD will continue to be the dominant format, with a wide variety of titles available in all musical genres.*

Thanks to its advanced technological features, the Ayre C-5xe will extract the full measure of performance from all digital audio formats, including CD, maximizing your musical enjoyment, both now and into the future.

# Installation

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The Ayre C-5xe universal stereo (U2) player is easy to hook up and use. The following guidelines will ensure that the installation goes smoothly.

## Location

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*The infrared beam of the remote control will also travel through glass.*

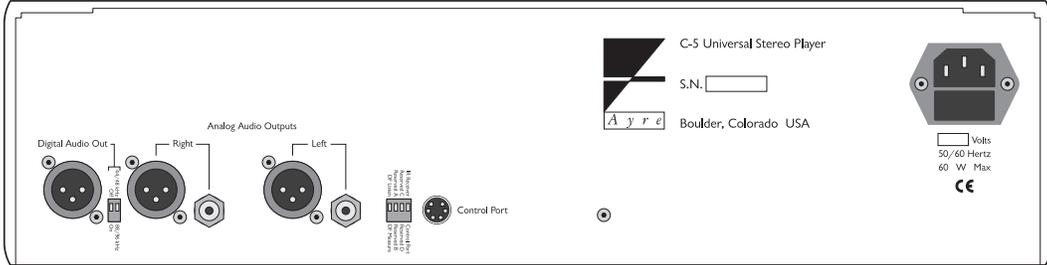
A good location for your U2 player is at an easily accessible height in an open-backed cabinet or on a shelf. The receiver for the infrared remote control is mounted behind the display lens on the front panel. A direct line of sight from the listening position will ensure the maximum range. However, the infrared beam will also reflect off of most wall surfaces with a reduced range.

## Analog Outputs

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*When you have a choice, a balanced connection will offer slightly higher sound quality than an unbalanced connection.*

The Ayre C-5xe offers both balanced and unbalanced outputs. Balanced connections are made via three-pin XLR connectors, while unbalanced connections are made via RCA connectors. It is not normally recommended to use both sets of analog outputs simultaneously.



## Digital Output

*An adapter is available from Ayre should you need to connect the digital output to a device with an S/PDIF input that uses an RCA connector.*

The Ayre C-5xe features a balanced AES/EBU digital audio output on the rear of the unit. This output is used when connecting to a digital recording unit or other device, such as an external digital-to-analog converter (DAC). Additional information regarding the digital output may be found in the chapter “Optimization and Customization”.

## Control Port



The control port on the rear panel of the C-5xe allows the unit to communicate with a system controller such as a Crestron or AMX. Additional information regarding the control port may be found in the chapter “Optimization and Customization”.

## AC Power

Connect the Ayre C-5xe to an unswitched power source. The best sound quality is normally achieved

when the player is plugged directly into the wall outlet, without using any power strips or power line conditioners.

## Break-In

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*Playing the unit for 100 to 500 hours will ensure full break-in.*

Due to the manufacturing processes used for the wires and capacitors, a break-in period is necessary for the Ayre C-5xe to reach its full performance potential.

## Controls and

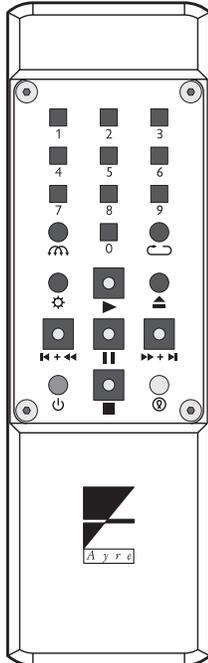
# Operation

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The Ayre C-5xe universal stereo (U2) player may be controlled using either the front panel buttons or the included remote control. Basic functions are available at both locations, while additional functions are available only at the remote control.

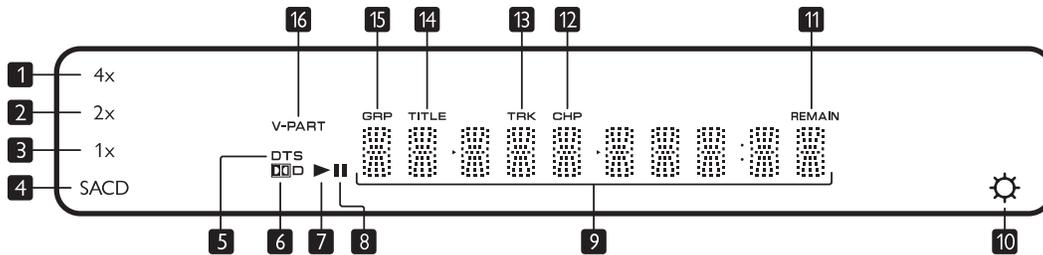
## Remote Control

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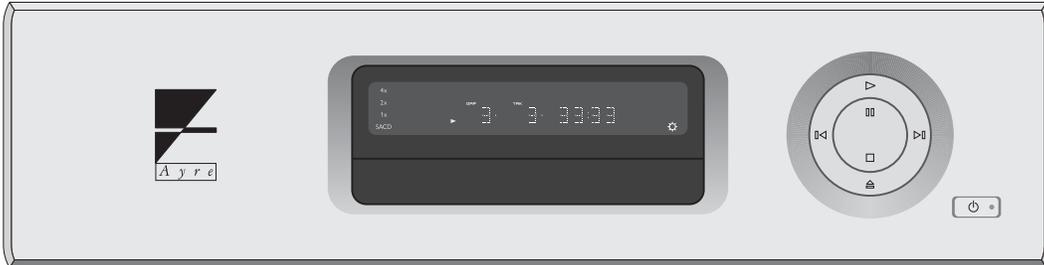


The supplied remote control handset has a housing machined from solid aluminum and features lighted keys for easy use in a dark environment. It has a unique battery saver feature, whereby if a button is pressed for longer than normal, the internal microprocessor will revert the unit to “sleep” mode. This protects the batteries if, for instance, the remote control handset becomes wedged in the furniture cushions.

The remote control handset uses 2 x AAA batteries, which are pre-installed at the factory. When battery replacement is required, remove the four rubber feet on the back side by pulling them straight out. Then the four retaining screws may be removed using the supplied 3/32" allen key.



- 1 – 4x** Lights when playing a track with 176.4 or 192 kHz sample rate.
- 2 – 2x** Lights when playing a track with 88.2 or 96 kHz sample rate.
- 3 – 1x** Lights when playing a track with 44.1 or 48 kHz sample rate.
- 4 – SACD** Lights when playing an SACD.
- 5 – DTS** Lights when playing a DTS soundtrack.
- 6 – DOLBY DIGITAL** Lights when playing a Dolby Digital soundtrack.
- 7 – PLAY** Lights when a disc is playing.
- 8 – PAUSE** Lights when a disc is paused.
- 9 – Character Display** Displays disc information.
- 10 – DISPLAY OFF** Lights when the display is turned off.
- 11 – REMAIN** Indicates that the display is showing the time remaining.
- 12 – CHP** Indicates that the display is showing a DVD-V chapter number.
- 13 – TRK** Indicates that the display is showing a CD, SACD, or DVD-A track number.
- 14 – TITLE** Indicates that the display is showing a DVD-V title number.
- 15 – GRP** Indicates that the display is showing a DVD-A group number.
- 16 – V-PART** Lights when playing a DVD with video content.



## Basic Functions

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The following basic functions are accessible via both the front panel buttons and the remote control handset.



### Standby/Operate

The “Standby/Operate” button toggles the unit between normal operation and standby mode. When in standby mode a green status LED in the front panel “Standby” button is illuminated. The internal circuitry remains powered, ensuring optimal performance with a minimum of warm-up time.



### Open/Close

The “Open/Close” button opens and closes the disc tray. An open tray may also be closed by pressing gently on the front edge of the tray.



When the tray is closed, almost all DVD-Video discs will automatically begin playing. This is because the DVD format allows the disc to send commands to the player.



## Play

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Pressing the “Play” button initiates playback of the disc. If the drawer is open, pressing “Play” will also close the drawer.



## Pause

---

Pressing the “Pause” button will pause the disc playback. Playback may be resumed either by pressing the “Pause” button again or the “Play” button.



## Stop

---

Pressing the “Stop” button will stop disc playback. However if you are playing a DVD-Video disc, the display shows “RESUME” and the position is memorized. Press “Play” to start from the memorized position, or press “Stop” a second time to clear the memorized position.



The resume position remains memorized as long as the disc is in the player, even if you switch the power off.



## Previous

---

Pressing the “Previous” button will back up to the start of the current track (CD, SACD, DVD-A) or chapter (DVD-V). Additional presses will move to previous tracks or chapters.



The “Previous” button of the remote control handset can activate two separate functions, depending on how long the button is pressed. A quick button press (less than about  $\frac{1}{4}$  second) will activate the “Previous” function. A longer button press (greater than about  $\frac{1}{4}$  second) will activate the “Reverse Scan” function.

Please note that the behavior of the “Previous” function varies depending on the type of disc being played. With a CD or SACD, pressing the “Previous” button will navigate through the tracks, whether the disc is playing or stopped.

Pressing the “Previous” button while a DVD is playing will navigate through the tracks (DVD-A) or chapters (DVD-V). However when a DVD is stopped, pressing the “Previous” button will instead navigate through the available groups (DVD-A) or titles (DVD-V). Please refer to the chapter “Navigation of Discs” for additional information.



## Next

---

Pressing the “Next” button will move to the start of the next track (CD, SACD, DVD-A) or chapter (DVD-V). Additional presses will move to subsequent tracks or chapters.



The “Next” button of the remote control handset can activate two separate functions, depending on how long the button is pressed. A quick button press (less than about  $\frac{1}{4}$  second) will activate the “Next” function. A longer button press (greater than about  $\frac{1}{4}$  second) will activate the “Forward Scan” function.

Please note that the behavior of the “Next” function varies depending on the type of disc being played. With a CD or SACD, pressing the “Next” button will navigate through the tracks, whether the disc is playing or stopped.

Pressing the “Next” button while a DVD is playing will navigate through the tracks (DVD-A) or chapters (DVD-V). However when a DVD is stopped, pressing the “Next” button will instead navigate through the available groups (DVD-A) or titles (DVD-V). Please refer to the chapter “Navigation of Discs” for additional information.



## Reverse Scan

---

The “Reverse Scan” mode scans backward through the disc.



Please note that the behavior of the front panel “Reverse Scan” function is slightly different than the remote control “Reverse Scan” function.

Pressing and **holding** the front panel “Previous” button will engage the “Reverse Scan” function. The unit will scan backward as long as the button is held. When the button is released, the disc will resume normal play.



The “Previous” button of the remote control handset can activate two separate functions, depending on how long the button is pressed. A quick button press (less than about  $\frac{1}{4}$  second) will activate the “Previous” function. A longer button press (greater than about  $\frac{1}{4}$  second) will activate the “Reverse Scan” function.

After activating the “Reverse Scan” function with a longer button press of the remote control handset’s “Previous” button, the unit will continue scanning backward until the “Play” button is pressed. Press “Play” when the desired location has been reached.



Subsequent activations of the remote control handset’s “Reverse Scan” function while the unit is scanning backward will toggle between the normal scan rate and a high-speed scan rate.



## Forward Scan

---

The “Forward Scan” mode scans forward through the disc.



Please note that the behavior of the front panel “Forward Scan” function is slightly different than the remote control “Forward Scan” function.

Pressing and **holding** the front panel “Next” button will engage the “Forward Scan” function. The unit will scan forward as long as the button is held. When the button is released, the disc will resume normal play.



The “Next” button of the remote control handset can activate two separate functions, depending on how long the button is pressed. A quick button press (less than about  $\frac{1}{4}$  second) will activate the “Next” function. A longer button press (greater than about  $\frac{1}{4}$  second) will activate the “Forward Scan” function.

After activating the “Forward Scan” function with a longer button press of the remote control handset’s “Next” button, the unit will continue scanning

forward until the “Play” button is pressed. Press “Play” when the desired location has been reached.



Subsequent activations of the remote control handset’s “Forward Scan” function while the unit is scanning forward will toggle between the normal scan rate and a high-speed scan rate.

## Additional Functions

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The following functions are available only via the remote control handset.

1      2      3  
4      5      6  
7      8      9  
0

### Number Keys

The number keys allow quick navigation to the desired point on the disc.



To enter a number greater than “9”, simply press the desired number keys in order. For example, to enter “23”, first press “2” and then “3”.

Please note that the behavior of the number keys varies depending on the type of disc being played. When playing a CD or SACD, pressing the number keys for the desired track number will navigate to that track, whether the disc is playing or stopped.

Pressing the number keys while a DVD is playing will navigate through the tracks (DVD-A) or chapters (DVD-V). However when a DVD is stopped, pressing the number keys will instead navigate through the available groups (DVD-A) or titles (DVD-V). Please refer to the chapter “Navigation of Discs” for additional information.



## Display Brightness

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The front panel display of the C-5xe has three brightness settings, plus an “Off” position.



The “Display” button of the remote control handset can activate two separate functions, depending on how long the button is pressed. A quick button press (less than about ¼ second) will activate the “Display Brightness” function. A longer button press (greater than about ¼ second) will activate the “Display Mode” function.

Briefly pressing the “Display” button on the remote control handset will activate the “Display Brightness” function, scrolling through the four choices. A blue LED next to the display illuminates when the display is turned off.



When the display is off, pressing any key will illuminate the display for a few seconds. If the disc is playing when the display is off, pressing “Play” will briefly illuminate the display without affecting playback.



## Display Mode

---

Various information regarding the disc being played may be selected for the front panel display by using the “Display Mode” function.



The “Display” button of the remote control handset can activate two separate functions, depending on how long the button is pressed. A quick button press (less than about ¼ second) will activate the “Display Brightness” function. A longer button press (greater than about ¼ second) will activate the “Display Mode” function.

The information available for display varies according to the type of disc being played. Activating the “Display Mode” function with a longer button press will scroll through the available choices for each type of disc:

**CD and SACD**

Track number + elapsed track time.  
Track number + remaining track time.  
“DISC” + total remaining time on the disc.

**DVD-Audio**

Group number + track number + elapsed track time.  
Group number + track number + remaining track time.  
“# GRP” + total remaining time in the current group.

**DVD-Video**

Title number + chapter number + elapsed time in title.  
“# TTL” + total remaining time in the current title.  
Title number + chapter number + remaining chapter time.

**MP3**

Track number + elapsed time.  
Track name.  
Folder name.



*When playing MP3 discs, repeat folder mode is also available.*

## Repeat

---

Pressing the “Repeat” button selects between normal play mode, repeat track (chapter for DVD-V discs) mode, and repeat disc (group for DVD-A discs or title for DVD-V discs) mode.



The “Repeat” button of the remote control handset can activate two separate functions, depending on how long the button is pressed. A quick button press (less than about ¼ second) will activate the “Repeat” function. A longer button press (greater than about ¼ second) will activate the “Audio” function.

The status of the “Repeat” mode is shown on the front panel display when the default display mode is selected.



To exit the “Repeat” mode, either press the “Repeat” button to scroll through the modes or press the “Stop” button.



*The “Audio” function is only available on DVD-V discs.*

## Audio

---

The “Audio” function allows the selection of the various soundtracks available on a DVD-Video disc.



The “Repeat” button of the remote control handset can activate two separate functions, depending on how long the button is pressed. A quick button press (less than about ¼ second) will activate the “Repeat” function. A longer button press (greater than about ¼ second) will activate the “Audio” function.

While a DVD-Video disc is playing, a longer press of the “Repeat” button will enter the mode whereby the soundtrack may be selected. The “GUI” symbol will illuminate on the front panel display for five seconds, and additional activations of the “Audio” function during this period will scroll through the available soundtracks. Please refer to the chapter “Navigation of Discs” for additional information.



*The “Random” function is not available when playing SACDs.*

## Random

---

Pressing the “Random” button will play the tracks in random order, except with SACDs. The status of the “Random” mode is shown on the front panel display.



To exit the “Random” mode, either press the “Stop” button or manually select a new track with the number keys of the remote control handset.

During random play, the “Previous” and “Next” buttons function somewhat differently than normal. Pressing “Previous” returns to the beginning of the current track (chapter for DVD-V discs). You cannot go back further than this. Pressing “Next” selects a track (chapter for DVD-V discs) at random from those remaining.



## Remote Control Handset Illumination

The main navigation keys of the remote control handset include color-coded LEDs for easier use in a darkened room. The LEDs are turned on for three seconds by pressing the illumination button, easily located by feel in the lower right corner of the keypad. Additional key presses (of any key) will extend the illumination time for three seconds after the key is released.

# Discs

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The Ayre C-5xe universal stereo (U2) player will play every currently available audio disc format. Each type of music disc has a structure to aid in *navigation*, that is, locating and playing the desired music on each disc. While there is an overall similarity, each disc format utilizes a different navigational structure. Understanding the underlying navigational structure of each type of discs will allow for greater ease of use.

## CD

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The navigational structure of a CD is so intuitive that we often take it for granted. The music on each disc is broken up into numbered *tracks*. For popular music each track typically contains one song. For classical music each track typically contains either one shorter composition or one movement of a longer composition. Navigation of a CD is simple and straightforward.

## SACD

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SACDs use a system of numbered tracks for navigation, just as CDs do. In addition, an SACD will provide distinct *areas* when multi-channel tracks are present in addition to the normal stereo tracks. Each audio format (multi-channel or stereo) is contained in its own separate area.



The Ayre C-5xe will always play the stereo area of an SACD, ignoring any multi-channel areas that may be present.

All SACDs may therefore be easily navigated in the same way as a standard CD.

## DVD-Audio

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The DVD-Audio format is extremely flexible and allows for a wide variety of audio formats, including both stereo and multi-channel, each with a multiplicity of available sample rates and resolutions. This increased flexibility necessarily leads to an increased complexity of disc navigation.

### DVD-Audio Disc Structure

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On a DVD-A disc each separate audio format is contained in its own *group*, and each group is divided into numbered tracks. For example, a disc may have one group with a stereo mix sampled at 192 kHz with a resolution of 24 bits, while a second group may have a multi-channel (surround sound) mix sampled at 96 kHz with a resolution of 24 bits.

Typically there are several different groups on a DVD-A disc. Normally each group contains the same number of tracks each with the same musical selections, although presented in various formats. There may also be a menu group intended for navigation when using a video display. These menu groups are of little use with the Ayre C-5xe, as it does not include any video circuitry.

In an additional level of complexity, the groups are contained in a *title set*. Only DVD-Audio players can access the audio title set, but nearly all DVD-Audio discs also contain a video title set for backwards compatibility with DVD-Video players. The Ayre C-5xe will only access the audio title set, ignoring any content in the video title set.

## DVD-Audio Navigation

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*Pressing “Play” while the DVD-A disc is stopped will automatically begin play at track 1 of group 1.*

Many DVD-A discs were designed to be played while using a video display for navigation of the on-screen menu. Nonetheless, advanced features built into the Ayre C-5xe allow for easy navigation of DVD-A discs, without the use of a video display.

The C-5xe will play all formats found on DVD-A discs, including PCM, Dolby Digital, and DTS. Multi-channel tracks will automatically be downmixed to stereo. Therefore, all groups will play properly.



The key to navigating DVD-A discs is to recognize that only one group on each disc has the highest possible sound quality. Once that particular group has been determined for each disc, it is simple to navigate to that group.

When playing a DVD-A disc for the first time, you will want to determine which group has the highest possible sound quality. While the disc is stopped, use the navigation keys (“Next”, “Previous”, and number keys) to navigate to each group on the disc.



Remember that while the disc is stopped, the navigation keys (“Next”, “Previous”, and number keys) will select which group will play, but while the disc is playing the navigation keys will select which track in the current group will play.

Using the indicator LEDs on the front panel of the C-5xe, note which group uses the highest sample rate and does not use compressed (Dolby Digital or DTS) audio.



Make a note of the group with the highest sound quality on the case of the DVD-A disc. The next time you wish to play that disc, you may navigate to that group directly using the navigation keys (“Next”, “Previous”, and number keys).

Once the desired group has been selected and the disc is playing, the tracks on the disc may be navigated in the normal way. Use either the “Next” and “Previous” functions or direct track access via the number keys of the remote control handset.



Due to variations in the way DVD-A discs are authored, some discs may not allow for direct track access. This is not a malfunction of the player. Use the “Next” and “Previous” functions to navigate these discs.

## DVD-Video

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DVD-Video discs typically contain a film or musical concert that is one to two hours in length. The main program is contained in a single *title*, which is sub-divided into *chapters* for easier navigation. Additional titles may also be present, containing other features such as interviews with the directors, on-screen menus, et cetera.

The main feature is almost always found in title 1, and this is the title that would normally be played when using a U2 player. Virtually all DVD-V discs will autoplay upon insertion. However, many discs will begin playing a menu that is designed to be navigated by using a video display. In this case the front panel display shows “MENU”. Simply press “Stop” and then use the navigation functions (“Next”, “Previous”, or the number keys) to access the desired title (normally title 1) and begin play.

Many discs use UOPs (User Operation Prohibitions) to prevent the player from executing the “Stop” command while the FBI warning is playing.



If the disc does not stop immediately after pressing the “Stop” button, simply wait a few moments until the FBI warning has finished playing. Then press “Stop” again.

Once play begins in the desired title, the chapters may be navigated either with the “Next” and “Previous” functions or with the number keys on the remote control handset.

Most DVD-Video discs contain multiple soundtracks. These may be in the form of various spoken languages or various audio formats (e.g., Dolby Digital, DTS, or PCM). The “Audio” function, which is activated by a longer press of the remote control handset’s “Repeat” button will allow the desired soundtrack to be selected. Please refer to the chapter “Controls and Operation” for additional information.

While a DVD-Video disc is playing, the first activation of the “Audio” function will enter the mode whereby the soundtrack may be selected. The “GUI” symbol will illuminate on the front panel display for five seconds, and additional activations of the “Audio” function during this period will scroll through the available soundtracks.

## MP3

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CD-ROM discs containing MP3 files are divided into folders (directories) and tracks. Folders may also contain further subfolders. In addition, each folder and track may be given a name when the disc is created on a personal computer (PC).

### MP3 Navigation

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The system of tracks and folders creates a hierarchical structure for navigation. When playing an MP3 disc, play will begin with the tracks in the root directory. When all of those tracks have been played, play will continue with the tracks contained in the first folder, and so forth, until all tracks in all

folders have been played.

Within any given folder, the individual tracks may be accessed either with the “Next” and “Previous” functions or with the number keys of the remote control handset. To navigate to the next folder, press the “Next” button while playing the last track in the current folder. To navigate to the previous folder, press the “Previous” button twice while playing the first track in the current folder. (The first button press will return to the start of the current track and the second button press will back up to the last track in the previous folder.)

When selecting an MP3 track for play, the front panel display will show the following information in sequence:

<b>1.5 seconds</b>	“MP3” + folder number + track number.
<b>3 seconds</b>	Track name (first eight characters).
<b>Remainder of track</b>	Track number + elapsed time.

As can be seen, most of the time there will be no indication of which folder is currently playing. To display this information, use a longer button press on the “Display” key of the remote control handset to activate the “Display Mode” function. See the chapter “Controls and Operation” for additional information.

## Creating MP3 Discs

You can create your own MP3 discs for playback on the Ayre C-5xe by using a personal computer. Please

keep in mind the following points when creating an MP3 disc:

- This unit will play compressed audio files in MP3 format with a 44.1 or 48 kHz sample rate.
- This player only plays tracks that are named with the file extension “.mp3”.
- Variable bit-rate files are playable, but the playing time may not be shown correctly.
- Use CD-R or CD-RW media for recording your MP3 files.
- This player is compatible with multi-session discs, but will only play sessions that are closed.
- This player can recognize a maximum of 250 folders or 250 tracks.

# Customization

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The Ayre C-5xe is configured at the factory to provide the best performance for a typical installation. In certain situations you may wish to change the default configuration for optimal performance in your system, using small toggle switches on the rear of the unit.



The default configuration settings (all switches in the “up” position) will work best for the vast majority of users.

## Digital Audio Output

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*An adapter is available from Ayre should you need to connect the digital output to a device with an S/PDIF input that uses an RCA connector.*

The Ayre C-5xe features a balanced AES/EBU digital audio output on the rear of the unit. This may be used when connecting to a digital recording unit or other device, such as an external digital-to-analog converter (DAC).



The digital audio output is only active with PCM or compressed PCM (Dolby Digital or DTS) based discs (CD and DVD). It is inactive when playing SACDs.



A switch on the rear panel allows the digital audio output to be turned off if its use is not required.



Turning the digital output “off” when not using it will result in slightly higher sound quality through the analog outputs.

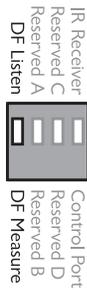
A second switch sets the sample rate available at the digital output. Selecting “44/48 kHz” will downsample high sample rate (88.2, 96, 176.4, or 192 kHz) PCM discs to single rate (44.1 or 48 kHz) PCM output.



Only change the sample rate switch while the unit is powered on and no disc is playing.

If the unit is not powered on or if a disc is playing, the position of the switch will not be detected. This can lead to a mismatch between the position of the switch and the actual state of the unit.

Selecting “88/96 kHz” will allow high sample rate PCM discs to output dual-rate PCM (88.2 or 96 kHz) at the digital audio output. This higher quality format can be used with a device capable of accepting higher sample rates. Dual-rate discs will output dual-rate audio, while quad-rate (176.4 or 192 kHz) DVD-Audio discs will be downsampled to dual-rate audio.



## Digital Filter

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The digital filter of the Ayre C-5xe features two user-selectable algorithms. A selector switch is located on the rear panel. One algorithm produces greater accuracy in the time domain and is labeled “Listen”. The other algorithm produces greater accuracy in the frequency domain and is labeled “Measure”.



Normally the selector switch is set to the “Listen” position when listening to music. However some listeners may prefer the additional high-frequency energy provided by the “Measure” position.

This switch only affects the analog outputs, and not the digital audio output.

## Control Port

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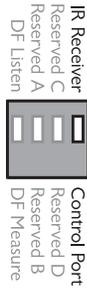


The control port on the rear panel of the C-5xe allows the unit to communicate with a system controller such as a Crestron or AMX. The control port uses opto-isolators to ensure that there are no unwanted ground loops created when using a system controller.



Pre-terminated cables, command files, and detailed information regarding the control port are available upon request from the Ayre factory.

There are two separate functions performed by the control port; reception of commands and transmission of the current power status (“Operate” or “Standby”) information.



## Command Functions

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The C-5xe may either be controlled by the remote control handset via a receiver on the front panel or by a system controller via the control port. A small toggle switch on the rear panel selects which mode is active.



For normal use, set this switch to “IR Receiver”. Set the switch to “Control Port” only when using a custom programmed system controller.

Command files are available from the Ayre factory in both Crestron and Pronto (CCF) format. These files include discrete on/off commands.

## Power Status Information

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The control port will also transmit the current power status (“Operate” or “Standby”) of the C-5xe information to a system controller. This feedback ensures that system controller remains synchronized with the actual state of the unit.

## Numbers and

# Specifications

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<i>Maximum Output Level</i>	2.05 V rms – unbalanced outputs 4.10 V rms – balanced outputs (PCM)  1.00 V rms – unbalanced outputs 2.00 V rms – balanced outputs (DSD)
<i>Analog XLR Output Polarity</i>	Pin 1 = Ground Pin 2 = Non-inverting (Positive) Pin 3 = Inverting (Negative)
<i>Frequency Response</i>	DC - 20 kHz (44.1 kHz sample rate) DC - 22 kHz (48 kHz sample rate) DC - 40 kHz (88.2 kHz sample rate) DC - 44 kHz (96 kHz sample rate) DC - 80 kHz (176.4 kHz sample rate) DC - 88 kHz (192 kHz sample rate) DC - 100 kHz (2.8224 MHz sample rate)
<i>Output Impedance</i>	55 $\Omega$ – unbalanced outputs 110 $\Omega$ – balanced outputs (55 $\Omega$ per phase)
<i>Power Consumption</i>	60 watts maximum

*Dimensions*      17-<sup>1</sup>/<sub>4</sub>" W x 13" D x 4-<sup>3</sup>/<sub>4</sub>" H  
44 cm x 33 cm x 12 cm

*Weight*            26 pounds  
12 kg

## Statement of

# Warranty

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*Please take a moment to fill out and return the enclosed warranty registration card.*

Your Ayre C-5xe universal stereo player is warranted against defects in workmanship and materials for a period of five years from the date of purchase, except for the transport mechanism. The warranty period for the transport mechanism is two years from the date of purchase. This warranty is transferable to subsequent purchasers within the original warranty period. All warranty claims must be made through an authorized Ayre dealer or distributor.

## Warranty Statement

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1. If any defects are found in the materials or workmanship of this Ayre product within the warranty period, the unit will be repaired or replaced by Ayre Acoustics, Inc. (Ayre) or its authorized agent.
2. Purchaser must return the product, packed in the original shipping carton, freight prepaid to:

Ayre Acoustics, Inc.  
2300-B Central Avenue  
Boulder, Colorado 80301

or to Ayre's authorized agent.

3. Ayre reserves the right to inspect any product that is the subject of any warranty claim prior to repairing or replacing it. Final determination of warranty coverage lies solely with Ayre.

Out-of-warranty claims will be billed for labor, materials, return freight, and insurance as required. Any product for which a warranty claim is accepted will be returned to the purchaser and the cost of shipping and insurance will be factory prepaid within the boundaries of the USA. Units to be shipped outside of the USA will be shipped freight collect only.

4. Ayre strives to manufacture the finest possible equipment, and therefore reserves the right to make improvements on its products, without necessarily assuming an obligation to retrofit such changes upon its previously manufactured models.

5. The above warranty is the sole warranty given by Ayre, and is in lieu of all other warranties. All implied warranties, including warranties of merchantability or fitness for any particular purpose shall be strictly limited in duration to five years from the date of original purchase, and upon expiration of the warranty period (five years), Ayre shall have no further obligation of any kind, whether express or implied. Further, Ayre shall in no event be obligated for any incidental or consequential damages as a result of any defect or any warranty claim, whether express or implied.

6. Ayre does not authorize any third party, including any dealer or sales representative to assume any liability of Ayre or make any warranty for Ayre. The unit must not have been altered or improperly serviced. The serial number on the unit must not have been altered or removed.

7. Warranty registration cards must be completed and mailed to Ayre within 30 days of purchase. Ayre may, at its option, require from the purchaser valid proof of purchase (dated copy or photocopy of dealer's original invoice).

A Place for

# Notes

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*Ayre Acoustics, Inc.*  
*2300-B Central Avenue*  
*Boulder, Colorado 80301*

*[www.ayre.com](http://www.ayre.com)*  
*+1-303-442-7300*

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