

# 15.2" (16:9) Overhead Video Monitor/DVD Player

MODEL OHD1500

## NON-TRANSFERABLE LIMITED ONE YEAR CONSUMER WARRANTY

Directed Electronics, Inc. (Directed) promises to the original purchaser that the new automotive video monitor and/or source unit(s) (the Product) that is purchased and installed from a Directed authorized dealer more than ninety (90) days after the purchase of a new vehicle are warranted for a period of one (1) year from date of purchase of the Product.

Directed promises to the original purchaser that all video accessories will be free from defects in materials and workmanship under normal use and condition for a period of ninety (90) days after the date of purchase. A sales receipt and/or warranty registration card is required to provide proof of date of purchase of the Product or accessories.

Should the Product be determined defective during the applicable warranty period, the defect(s) will be repaired or replaced with a new or reconditioned part(s), at Directed's option. To obtain warranty service, the Product must be returned to a Directed authorized dealer along with proof of purchase and installation.

Note: This warranty does not cover labor costs for the removal and reinstallation of the Product. IN ORDER FOR THIS WARRANTY TO BE VALID, YOUR PRODUCT MUST BE SHIPPED WITH PROOF OF PURCHASE AND INSTALLATION BY AN AUTHORIZED DIRECTED DEALER. ALL PRODUCTS RECEIVED BY DIRECTED FOR WARRANTY REPAIR WITHOUT PROOF OF DIRECTED DEALER INSTALLATION WILL BE DENIED.

This warranty is non-transferable and does not apply to any Product that has been modified or used in a manner contrary to its intended purpose, and does not cover damage to the Product caused by installation or removal of the Product. This warranty is **VOID** if the product has not been purchase from an authorized Directed dealer or has been damaged by accident or unreasonable use, negligence, acts of God, neglect, improper service or other causes not arising out of defect in materials or construction. This warranty does not cover the elimination of externally generated static or noise, or the correction of antenna problems or weak television reception, damage to tapes, video games, software, camcorders, discs, speakers, accessories or vehicle electrical systems, cosmetic damage or damage due to negligence, misuse, abuse, failure to follow operating instructions, accidental spills or customer applied cleaners, damage due to environmental causes such as floods, airborne fallout, chemicals, salt, hail, windstorms, lightning or extreme temperatures, damage due to accidents, road hazards, fire, theft, loss or vandalism, damage due to improper connection to equipment of another manufacturer, modification of existing equipment, use of a faulty tape cartridge or cleaning of the VCR head, or Product which has been opened or tampered with for any reason or which has been damaged due to alteration or service performed by anyone other than Directed Electronics, Inc.

**ALL WARRANTIES INCLUDING BUT NOT LIMITED TO EXPRESS WARRANTY, IMPLIED WARRANTY, WARRANTY OF MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE, AND WARRANTY OF NON-INFRINGEMENT OF INTELLECTUAL PROPERTY ARE EXPRESSLY EXCLUDED TO THE MAXIMUM EXTENT ALLOWED BY LAW, AND DIRECTED NEITHER ASSUMES NOR AUTHORIZES ANY PERSON TO ASSUME FOR IT ANY LIABILITY IN CONNECTION WITH THE SALE OF THE PRODUCT. DIRECTED HAS ABSOLUTELY NO LIABILITY FOR ANY AND ALL ACTS OF THIRD PARTIES INCLUDING ITS LICENSED DEALERS OR INSTALLERS. IN NO EVENT WILL DIRECTED ELECTRONICS, INC. BE LIABLE FOR ANY INCIDENTAL, SPECIAL OR CONSEQUENTIAL DAMAGES (INCLUDING LOSS OF PROFITS), BY PURCHASING THIS PRODUCT, THE CONSUMER AGREES AND CONSENTS THAT ALL DISPUTES BETWEEN THE CONSUMER AND DIRECTED SHALL BE RESOLVED IN ACCORDANCE WITH CALIFORNIA LAWS IN SAN DIEGO COUNTY, CALIFORNIA.**

Some states do not allow limitation on how long an implied warranty lasts. In such states, the limitations or exclusions of this Limited Warranty may not apply. Some states do not allow the exclusion or limitation of incidental or consequential damages. In such states, the exclusion or limitation of this Limited Warranty may not apply to you. This Limited Warranty gives you specific legal rights, and you may have other rights which vary from state to state.

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# Safety Instructions and Cautions

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**WARNING:** TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR MOISTURE. TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK AND ANNOYING INTERFERENCE, USE ONLY THE INCLUDED HARDWARE.

THIS MONITOR IS ONLY DESIGNED FOR REAR SEAT PASSENGER VIEWING AND IS NOT INTENDED FOR VIEWING BY THE DRIVER WHILE THE VEHICLE IS IN MOTION. SUCH USE MAY DISTRACT THE DRIVER OR INTERFERE WITH THE SAFE OPERATION OF THE VEHICLE, AND MAY ALSO VIOLATE STATE LAW.

DIRECTED ELECTRONICS, INC. DISCLAIMS ANY LIABILITY FOR ANY BODILY INJURY, INCLUDING FATALITIES, OR PROPERTY DAMAGE THAT MAY RESULT FROM ANY IMPROPER OR UNINTENDED USES OF THIS PRODUCT.

SHOULD THE LCD PANEL BREAK OR LEAK FLUID, AVOID ALL CONTACT WITH THE UNIT. IF YOU SHOULD COME IN CONTACT WITH THE LEAKED FLUID, WASH THE AFFECT AREA THOROUGHLY WITH WAS AND SEEK IMMEDIATE MEDICAL ATTENTION.

- During operation, if the unit should over-heat or malfunction, switch off the unit and see your dealer. Do not disassemble the unit as there are no user-serviceable parts in this unit and the warranty will be voided.
- Should there be a need to replace a blown fuse, turn off the unit and disconnect all power to the player. Use only the correct rating fuse to avoid electrical damage to the unit.
- Only operate the monitor as described in this guide. Attempts to use or modify this monitor contrary to the descriptions in this guide may cause damage and void the warranty.
- Extremes in temperature can cause abnormal display operation. This monitor has an optimal operating temperature range between 35-115 degrees Fahrenheit. If the vehicle interior is outside this range, do NOT operate the monitor until the temperature is within its operating range.
- Exposure to moisture or dust can cause harmful damage to the internal electronics. Do not mount near cup holders or in areas where spills may occur.
- This monitor is designed for use in vehicles with standard (-) 12 volt ground electrical systems.
- Do not operate for an extended period of time without the engine running or the vehicle's battery voltage may drop to damaging levels.
- Do not drop the LCD panel or subject it to direct impact. This will damage the panel and/or the back light element.
- When operating the unit, avoid contact with the LCD panel.
- Prevent metal or foreign objects being locked between the LCD screen and the enclosure. Foreign objects may impair smooth running of the disc and may cause electrical problems.
- Keep unit away from equipment with strong magnets such as large loudspeakers.
- To prevent malfunction, do not play discs other than the ones listed below: DVD audio discs, DVD-ROMs, CD-ROMs, Photo CDs and DVDs with region numbers other than this player's region number.

# Welcome

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Thank you for your purchase of Directed's Overhead Monitor with integrated DVD. Prior to operating this unit, please fully read this instruction manual and retain it for future reference.

## NOTICE

If you have the unit with an LED on the front left of the LCD then use this front portion of the manual. If you do not, then use the manual towards the rear of this manual. The non-LED unit portion of this manual has only the information necessary for that unit.

# Important

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## WHEN CLEANING THE VEHICLE

Do not spray this unit with water or cleaning solutions. Moisture and the chemicals found in cleaning fluids could damage the consoles finish and interior electronics. A soft damp, lens cleaning cloth should be used to wipe the screen.

## WHILE DRIVING

This unit is intended for use in the rear seat area only. It should not be installed in a location that would allow the driver to view it while driving.

## WHEN PARKED

The screen is easily removable. Always close the screen when parking for an extended period of time to avoid potential theft or extended exposure to direct sunlight.

## PROPER USE

Do not touch the screen. Do not pull or hang from the fold down monitor door.

## REPAIRS

If the monitor stops working for any reason, discontinue use immediately and consult with your retailer about any necessary repairs.

## RADIO/TV TUNER USE

When the unit is used in conjunction with a Radio/TV tuner, please assure that the receiver is manufactured to receive television broadcast signals that are transmitted via terrestrial radio waves. Reception quality will change and vary according to vehicle location and weather conditions.

## INSTALLATION

Avoid installing the monitor at a location, where it will be under direct sunlight or a hot air vent. Operating temperature of the unit is from 32-140 degrees Fahrenheit. Install the unit at a dry location, where it is away from condensation. Only correct size of fasteners or installation cables should be used during installation. Failure to do so may cause a mechanical failure and create a fire hazard. The installation should be done by an authorized Directed dealer.

***NOTE:** If the internal temperature of the vehicle is higher than the normal operating temperature, please allow the vehicle to cool down prior to operating the unit.*

## PICTURE QUALITY

The picture quality of this LCD unit depends strictly on its installed location. To achieve the best picture quality, adjust the brightness control or viewing angle of the unit until the optimum viewing is achieved.

## Important Information

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### FCC NOTICE

This device complies with Part 15 of 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 undesirable operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this device.

### YOUR WARRANTY

Your warranty registration must be completely filled out and returned within 10 days of purchase. Your product warranty will not be validated if your warranty registration is not returned. Make sure you receive the warranty registration from your dealer. It is also necessary to keep your proof of purchase, which reflects that the product was installed by an authorized dealer.

# Installation Guide

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## PRECAUTIONS

1. This unit should be installed by an authorized Directed dealer.
2. This product is designed to operate with a 12V DC, negative ground battery system.
3. Disconnect the ground wire from the battery terminal prior to connecting the unit to the electrical system.
4. The wiring from some other products or accessories might bear similar color code as this product; however, they might be of other function. Please refer to the electrical connection diagrams of this product prior to installing to avoid improper connection.
5. Use proper connectors and insulation to prevent electrical damage to the unit.
6. Do not connect the yellow wire and red wire together of this product directly to the +12V. Connect the red wire of this product to the ACC of the ignition key switch and yellow wire to +12V. Failure to do so may result in permanent drainage of the battery charge.
7. Only supplied accessories should be used to avoid damage to the unit during installation.
8. Ensure that the display monitor is suitably installed at a location, such that it will not obstruct the rear view mirror and/or the air condition vents.
9. Do not install this unit at a declining angle exceeding 30 degrees.
10. Do not install screws over the plane surface, which may affect monitor eject or retract function.

## ELECTRICAL CONNECTIONS

### Power Cable (4-pin, one pin not used)

Color Code	Function
Black	This wire is the ground source for the monitor and DVD.
Red	Accessory +12V switched power source for the monitor and DVD. This wire supplies the main power to the system.
Yellow	Constant +12V power. This wire supplies power to the DVD for last position memory.
Blue	Connect to parking brake switch or connect to ground. This wire must be connected if the driver can view the screen while driving.



## Dome Light Cable (5-pin)

Color Code	Function
Black	This wire supplies the ground to the domelight circuit.
Red	This wire supplies +12V switched power to the domelight circuit.
Yellow	This wire supplies +12V constant power to the domelight circuit.
Purple	This wire connects to the (+) door trigger.
Grey	This wire connects to the (-) door trigger.

The Red and Yellow wires should be connected together and then run to the domelight circuit.

## SIGNAL CONNECTION

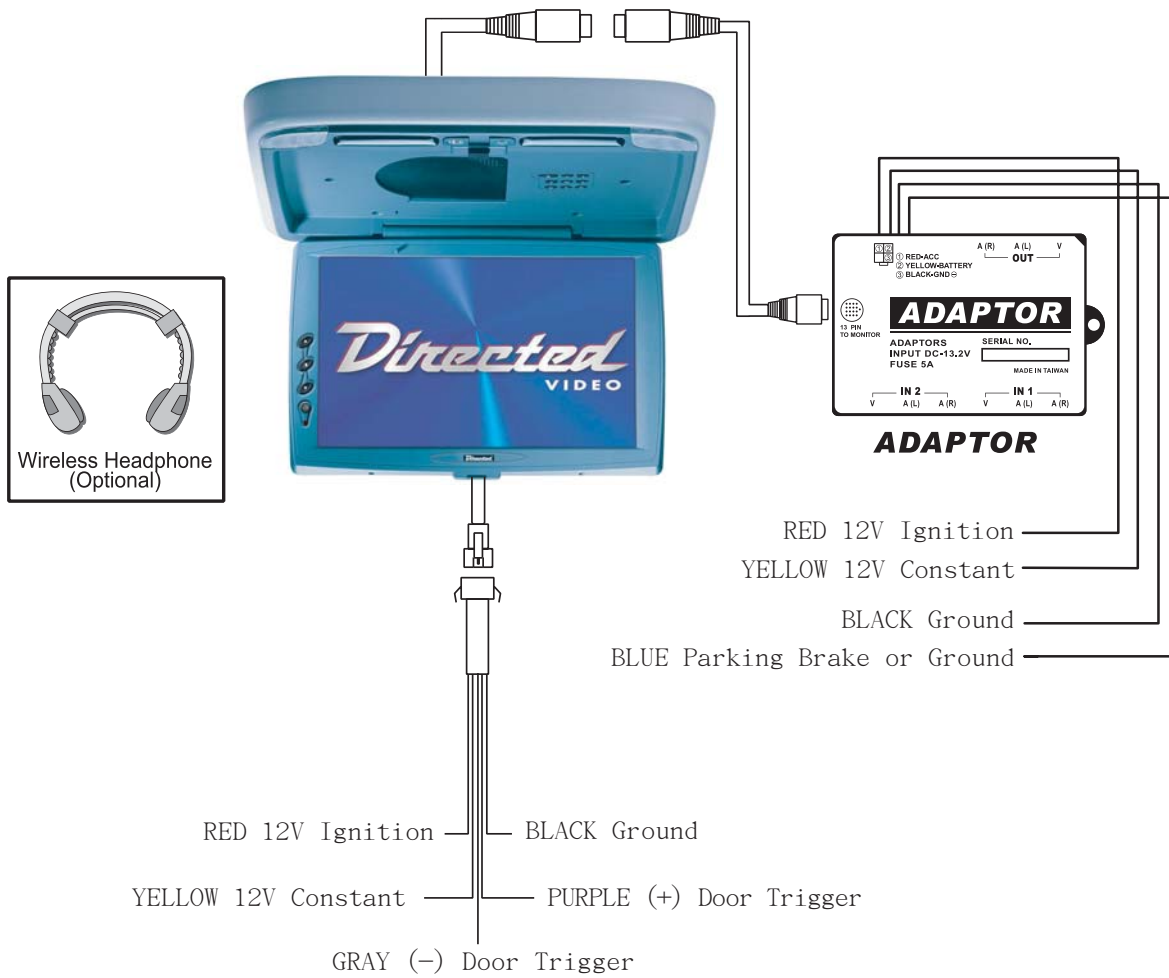
### Adapter Audio

Color Code	Function
Red 1 (RCA)	Audio - Right (Input)
White 1 (RCA)	Audio - Left (Input)
Red 2 (RCA)	Audio - Right (Input)
White 2 (RCA)	Audio - Left (Input)
Red 3 (RCA)	Audio - Right (Output)
White 3 (RCA)	Audio - Left (Output)

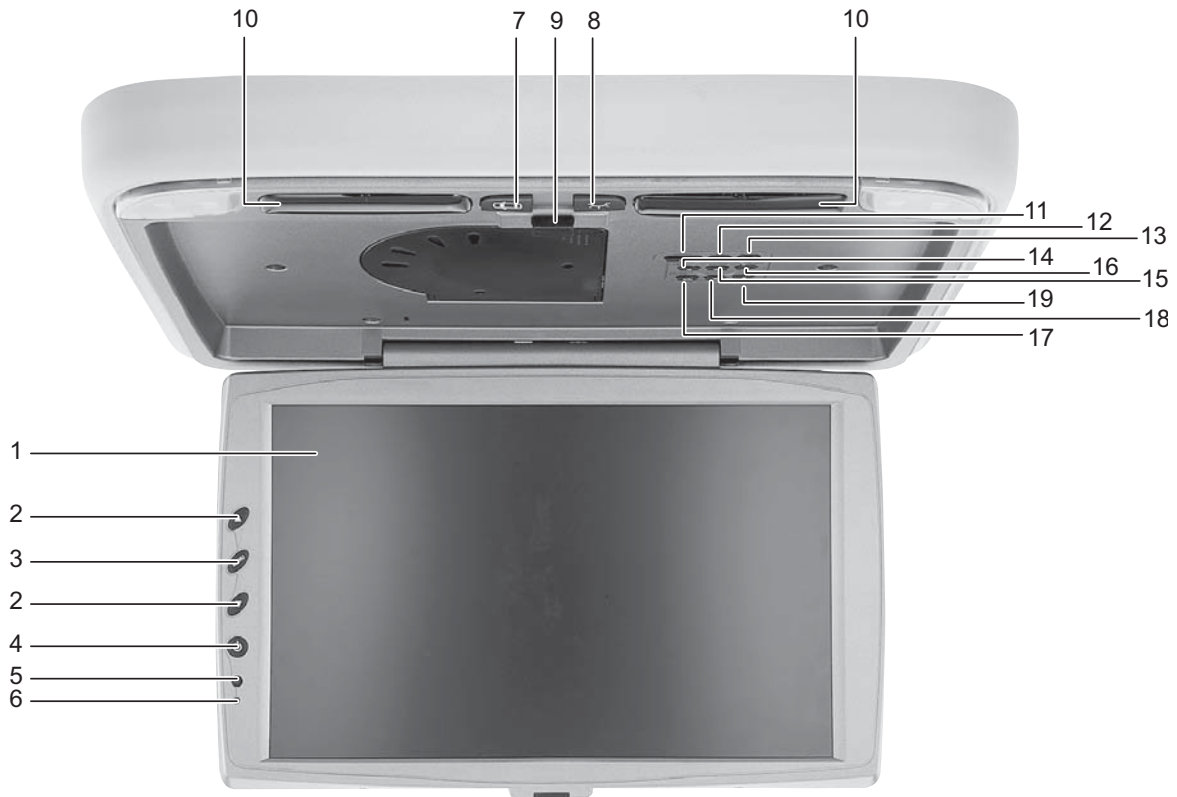
### Adapter Video

Color Code	Function
Yellow 1 (RCA)	Video - In (V-IN 1)
Yellow 2 (RCA)	Video - In (V-IN 2)
Yellow 3 (RCA)	Video - Out (V-OUT 1)






# Typical Wiring Diagram












# Function Keys



## Display and Unit

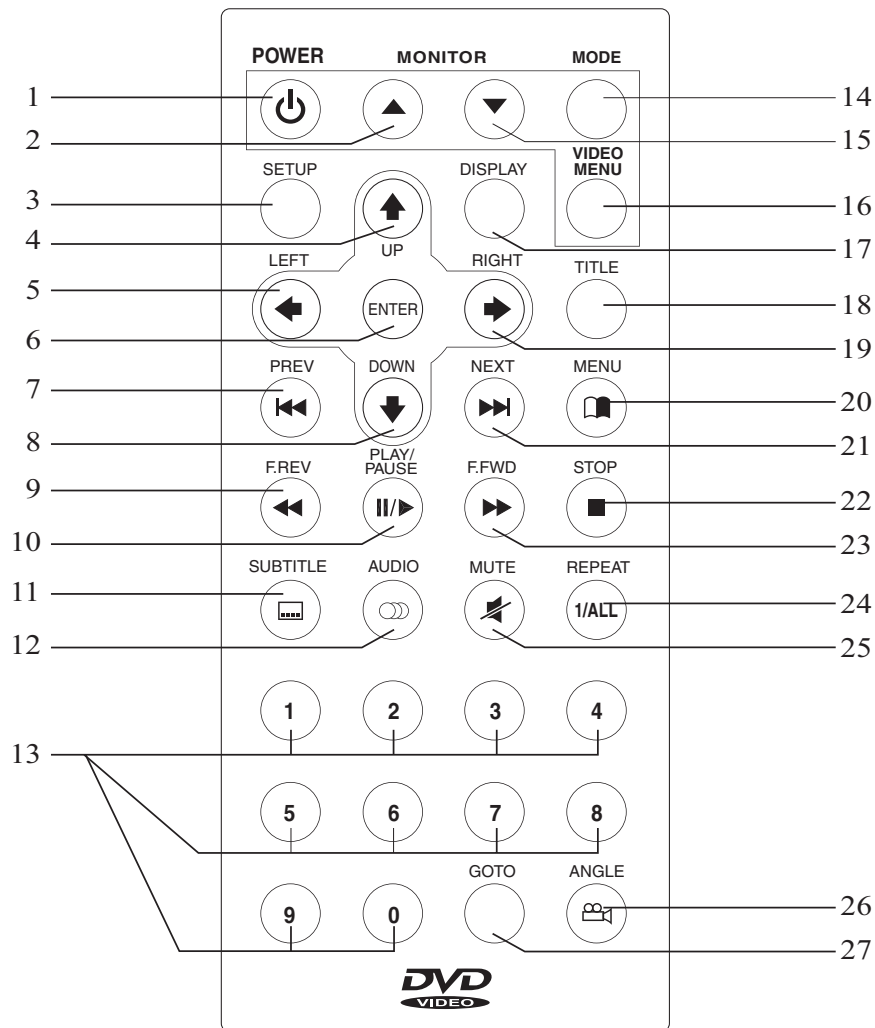
1. LCD Display
2. UP/DOWN button 
3. VIDEO MENU button 
4. Power ON/OFF button 
5. IR Sensor
6. LED
7. Door Light ON/OFF button 
8. Courtesy Light 
9. OPEN/Close latch
10. IR transmitter

## DVD Function Keys

11. DVD MENU button 
12. UP button 
13. AUDIO button 
14. LEFT button 
15. Enter button 
16. RIGHT button 
17. PLAY/PAUSE button 
18. DOWN button 
19. STOP button 

# Remote Control Unit

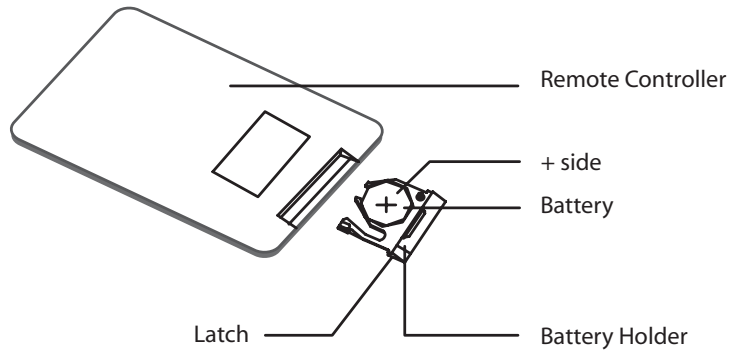
## REMOTE BUTTONS



- |                           |                          |
|---------------------------|--------------------------|
| 1. POWER                  | 14. MODE (AV1/AV2/DVD)   |
| 2. UP (display)           | 15. DOWN (display)       |
| 3. DVD SETUP              | 16. VIDEO MENU           |
| 4. UP cursor              | 17. DISPLAY (on screen)  |
| 5. LEFT cursor            | 18. TITLE                |
| 6. ENTER                  | 19. RIGHT cursor         |
| 7. PREV (previous)        | 20. MENU                 |
| 8. DOWN cursor            | 21. NEXT                 |
| 9. F. REV (fast reverse)  | 22. STOP                 |
| 10. PLAY/PAUSE            | 23. F.FWD (fast forward) |
| 11. SUBTITLE              | 24. REPEAT (1/ALL)       |
| 12. AUDIO                 | 25. MUTE                 |
| 13. 1-0 (numeric buttons) | 26. ANGLE                |
|                           | 27. GO TO                |

## BATTERY REPLACEMENT

*NOTE: Before using remote after installation, remove the battery plastic protective slip.*



1. Move the small latch to the right and slide out the battery holder.
2. Remove old battery and replace it with a new battery (CR2025) with the positive "+" sign facing as shown above.
3. Push battery holder back into its compartment until it is locked.


## PRECAUTIONS

1. Properly dispose of used battery.
2. Do not misuse battery by shorting the positive "+" and negative "-" terminal or put it into fire. Overheating may cause the battery to explode and cause a fire hazard.
3. If the remote is not to be used for a long period, remove the battery from the remote to prevent damage from battery leakage.
4. To avoid accidents, prevent children from playing with the battery.

# Loading and Unloading Discs


You can use single side and dual layer DVDs, VCDs, CD-audio and CD-R compatible 12cm discs with this system.

## LOADING DISC

1. Press  at the upper right corner to open the door.
2. Load with the recorded side (the shiny side) facing up. With double-sided discs, load with the side you want to watch facing up. Ensure that the disc is seated properly before pushing tray back into its locking position.
3. Push to close the door.



## UNLOADING DISC

1. Press  at the upper right corner to open the door.
2. Remove the disc. (Avoid touching the recorded surface.)
3. Push to close the door, until you hear a click sound from the door mechanism.



# Operating the Monitor

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## OPEN/CLOSE THE DISPLAY MONITOR

To open the display monitor, push the "OPEN" latch and pull the monitor down to the desired position. To close the display monitor, push the monitor up until it latches closed with an audible click.

## Power Up/Down the Display Monitor


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The unit will power up when the display monitor is unlatched and pulled down. (If the unit does not power up, press the Power button on either the remote or on the left side of the LCD screen.

To turn the power Off to the unit, press the POWER button on the remote or press and hold power button on left side of screen for 4 seconds. Also the power will shut Off when the display monitor is placed in the closed and latched position.

If the hand icon displays in the upper left-hand corner of the screen when using the remote, it indicates that the command issued is not allowed during the mode that the monitor display is presently in, or is not available on this system.

## FUNCTION MODE (MENU)

Press remote "VIDEO MENU" button or monitor "MENU"  button to activate the screen set up sequence as follows:

### TFT Video Menu

Color	8
Brightness	8
Tint	8
Sharpness	8
Contrast	8
Dimmer	OFF
Format	FULL
Reset	▶

RESET: Resets COLOR, BRIGHTNESS, TINT, DIMMER, FORMAT to factory settings.

Once the desired setting is selected with the ▲ or ▼ buttons, press the cursor key to the desired setting. Once the correct function is selected, press the cursor keys ◀ or ▶ (for the desired adjustment).

## DVD BASIC OPERATION:

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Place LCD in open position

### (1) DVD NAVIGATION KEYS

The remote control's [ LEFT ], [ RIGHT ], [ UP ], [ DOWN ] & [ ENTER ] allows the user to navigate the DVD MENU or DVD TITLE MENU or DVD SETUP MENU

### (2) STOP PLAYBACK

Press remote control's [ STOP ] or the front panel's [ STOP ] to stop DVD playback.

### (3) PLAY / PAUSE

Press remote control's or the front panel's [ PLAY ] button to start DVD playback or pause DVD playback

## DVD PLAYBACK (DVD)

(1) Press the remote control's or the front panel's "MODE" button to select the DVD mode.

(2) DVD playback commences. The disc will start to play if the disc does not have any menu recorded on it. If the disc has one or more titles recorded on it, a menu screen will appear on the monitor.

(3) Press **➡/⬅/⬆/⬇** on the remote to select the preferred title.

(4) Press the ENTER button, the selected item will now start playing.

Press the MENU or TITLE button, the menu screen will appear on the monitor.

## NEXT TRACK OR PREVIOUS TRACK (DVD/MP3/CD)

Press (**▶▶**) during playback MP3, Audio CD. The player will skip forward to the next track each time the button is pressed.

When using DVDs the player will skip forward to the next chapter each time the button is pressed.

Press (**◀◀**) during playback MP3, Audio CD. The player will skip backward to the previous track each time the button is pressed.

When using DVDs the player will skip backward to the previous chapter each time the button is pressed.



## PLAY/PAUSE (DVD/MP3/CD)

Press the "PLAY/PAUSE" (▶/||) button, during playback. The player will be placed in the pause mode.

Press the "PLAY/PAUSE" (▶/||) button again, the player will return to normal playback.

## STOP (DVD/MP3/CD)

(1) During Audio CD playback, when "STOP" (■) button is pressed, the CD playback will stop.

(2) During DVD playback, when the "STOP" (■) button is pressed, press "PLAY/PAUSE (▶/||)" button to continue. The player records the point where the "STOP" (■) button is pressed (Resume playback function). Press the PLAY/PAUSE (▶/||) button again, the play will resume from this point.

If "STOP" (■) button is pressed. "OP" will appear and the resume playback function will be cleared.

**NOTE:** Resume playback function is not available for Audio CDs.

## REPEAT MODE

For Audio CD/MP3/DVD

When REPEAT button on the remote is pressed,

REP 1 = The current track will be repeated

REP ALL = All the folders will be repeated

REP OFF = Repeat mode will be switched off

## CAMERA ANGLE (DVD)

Some DVD discs may contain scenes, which have more than one viewing angle. For these discs, the same scene can be viewed from a different angle by using the "ANGLE" button.

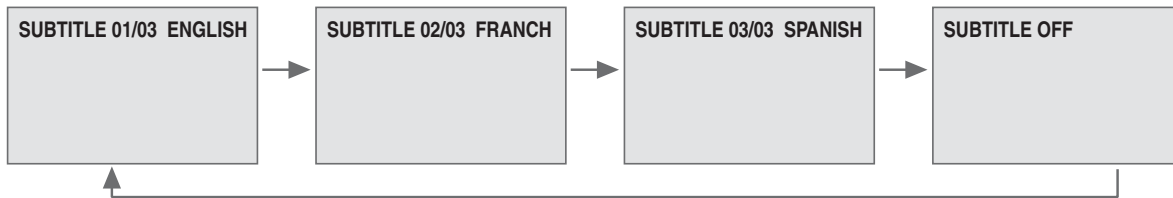
1. During DVD playback, press the "ANGLE" button on remote. "📺 x/y" will appear, x represents the current camera angle, and "y" represents the total available camera angle.
2. Press the ANGLE button on remote until the preferred angle is selected. The ANGLE selection will cycle through all available camera angle.

**NOTE:** This function will only work on discs where different camera angles have been recorded.

## SUBTITLE (DVD)

During DVD playback, you may change the subtitle language from the one selected at the initial setting to a different language, if available.

1. Pressing "SUBTITLE ON/OFF" button, the following will appear.



2. Press the "SUBTITLE" button until the preferred subtitle is selected. The SUBTITLE selection will cycle through all available subtitles.

**NOTE:** (1) The "SUBTITLE" works only for discs that have multiple subtitle.  
(2) In some cases, the subtitle will not changed immediately to the one selected.

## DVD MENU (DVD)

Most DVD discs have unique menu structures call DVD menu. The DVD menu's contents and operation may differ from disc to disc.

1. During DVD playback, press the MENU button. The DVD menu available on the disc will be displayed.
2. Use  $\blacktriangleright/\blacktriangleleft/\blacktriangleup/\blacktriangledown$  to select the preferred item or use the numeric button(s) to make a selection.
3. Press "ENTER" button, the selected item will start playing.

## TITLE MENU (DVD)

Some DVD discs may have more than one title. If the disc has a title menu recorded on it, the "TITLE" button can be used to access it.

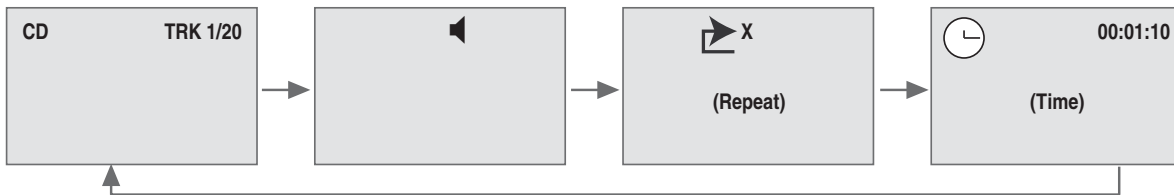
1. During DVD playback, press the TITLE button. A list of the titles may be displayed.
2. Use  $\blacktriangleright/\blacktriangleleft/\blacktriangleup/\blacktriangledown$  to select the preferred item.
3. Press "ENTER" button, the selected title will start playing.

## DISPLAY FUNCTION (DVD/MP3/CD)

The display function enables you to view the status, current title number, track number and the total playing time of the disc on the TV screen.

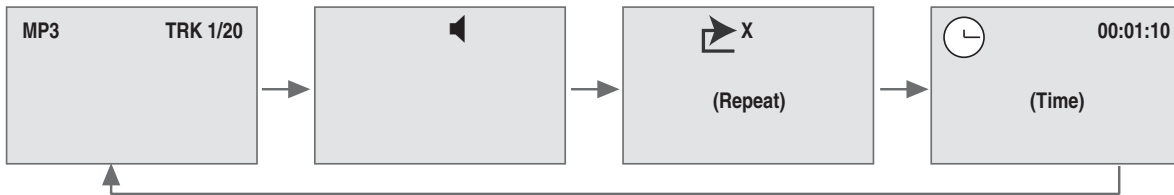
### Audio CD

When the "DISPLAY" key is pressed, the following OSD will be shown.



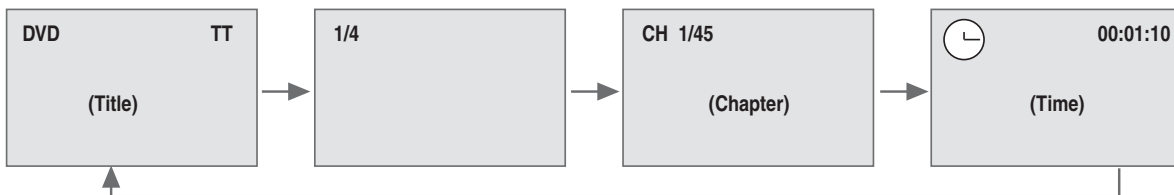
### MP3

When the "DISPLAY" key is pressed, the following OSD will be shown.



### DVD

When the "DISPLAY" key is pressed, the following OSD will be shown.



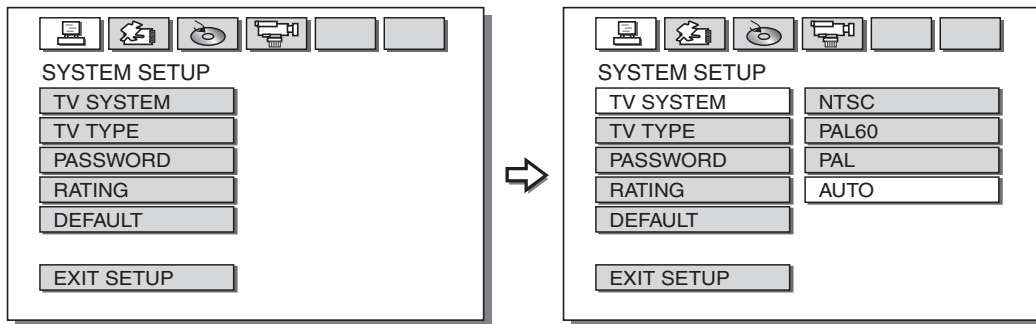
# DVD ADVANCED OPERATION

## DVD TYPICAL SETUP MENU AND CONFIGURATION

When the player is in stop mode, pressing "SETUP" button will allow you to modify some of the player's basic settings, you can use "UP / DOWN / RIGHT / LEFT" buttons to highlight a selection, and press "ENTER" button to confirm the selection.

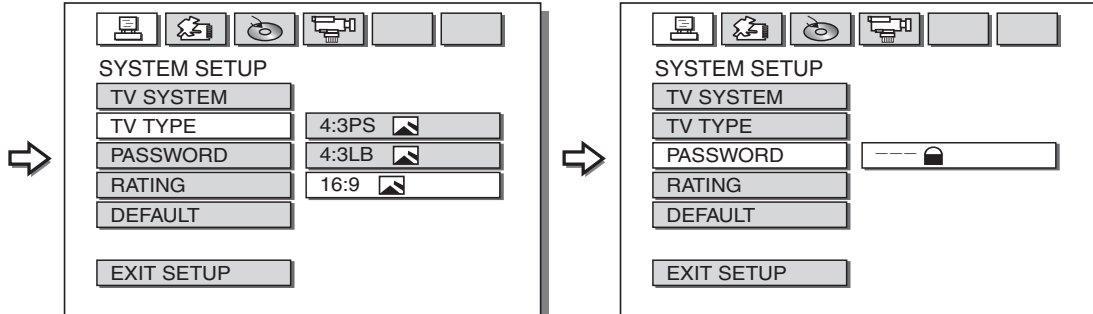
**NOTE:** Some DVD menu settings do not apply to this system, since it is specifically engineered for automotive use. Changing the state of some settings can cause apparent system failure.

### SYSTEM SETTING



SYSTEM SETUP

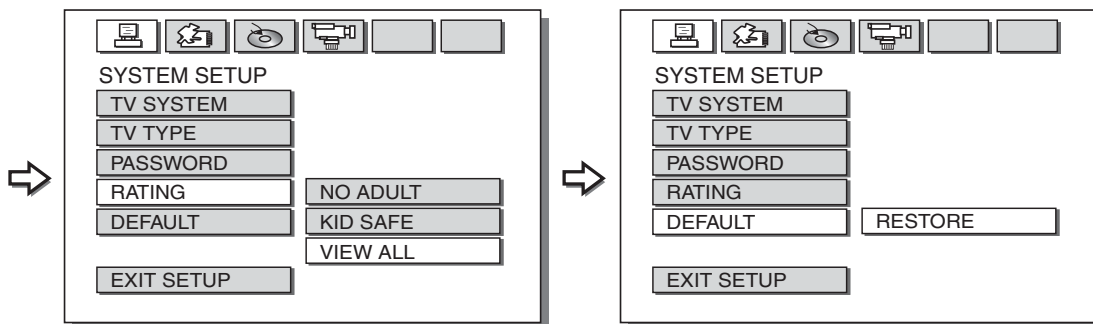
TV SYSTEM SETUP



TV TYPE SETUP

PASSWORD SETUP

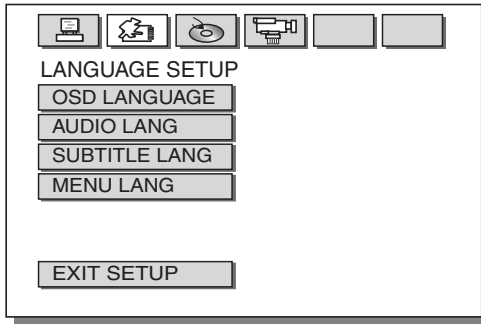
\* The Factory original Password is "1234". Use "1234" when forget the password YOU set.



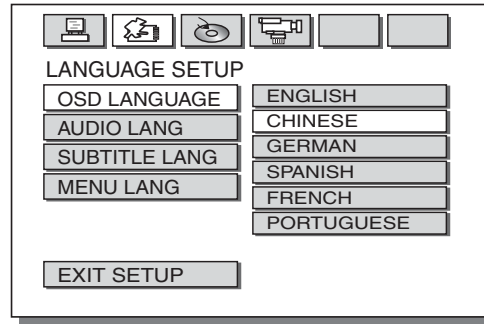
RATING SETUP

DEFAULT SETUP

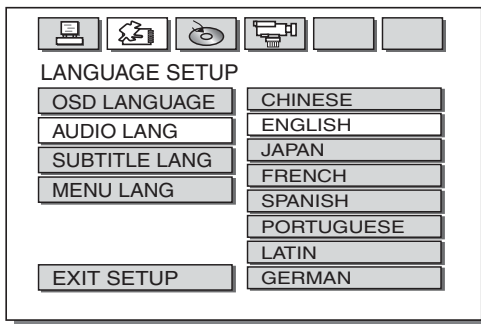
# LANGUAGE SETUP



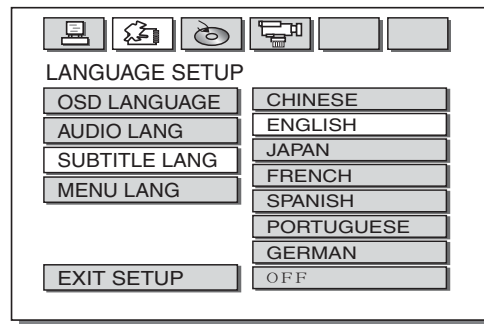
**LANGUAGE SETUP**



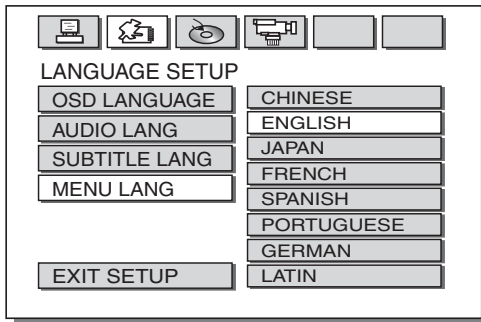
**OSD LANG SETUP**



**AUDIO LANG SETUP**

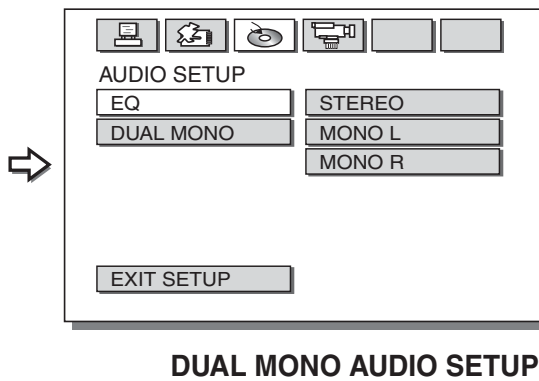
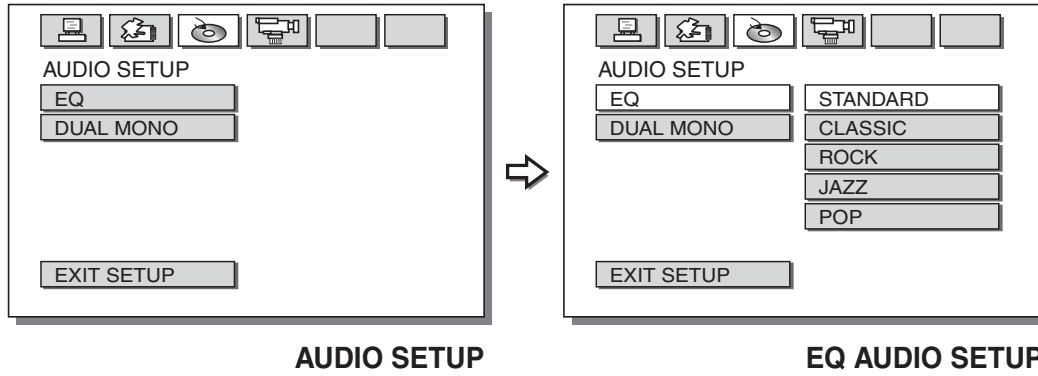


**SUBTITLE LANG SETUP**

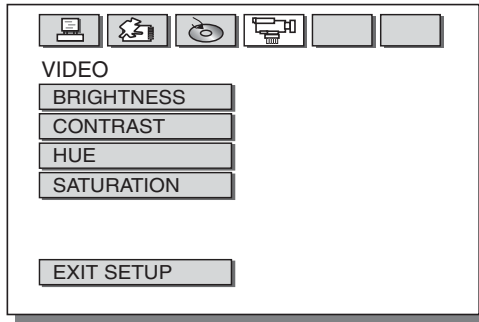


**MENU LANG SETUP**

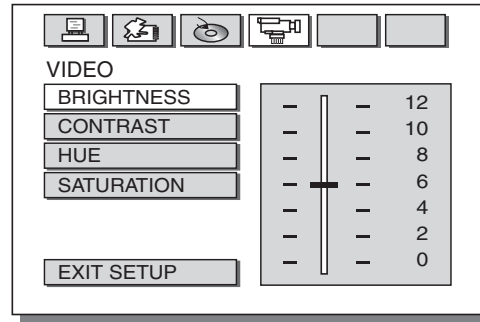
# AUDIO SETUP



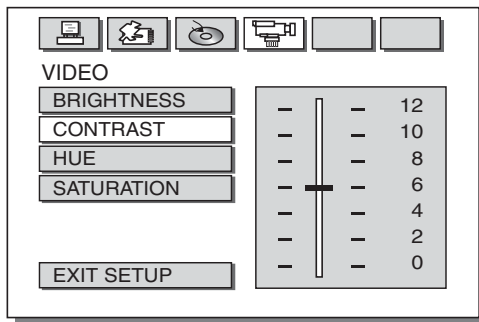
# VIDEO SETUP



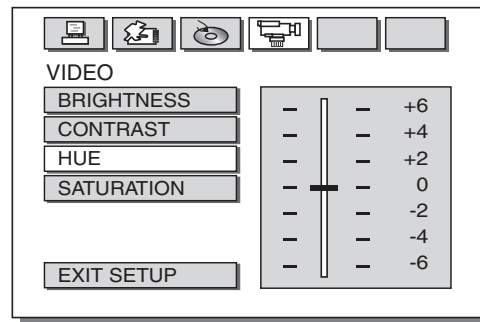
**VIDEO SETUP**



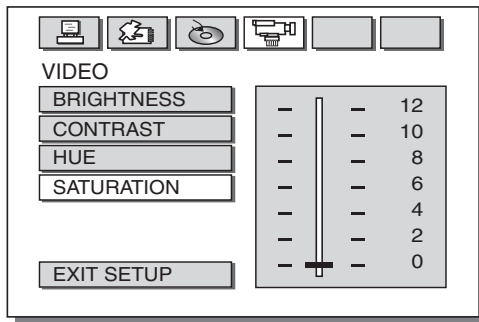
**BRIGHTNESS SETUP**



**CONTRAST SETUP**



**HUE SETUP**



**SATURATION SETUP**

# Technical Specifications

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Type	Roof Mount Color Display Monitor
Display System	15.2 inch Active Matrix Color TFT LCD NTSC/PAL Selectable
Display Pixels	1,024,000 pixels
Aspect Ratio	16 : 9
Resolution	3,072,000 = 1280(W) x 800(H) x 3 RGB
Active Area	13 (W) x 8.2 (H) inches (332.2 (W) x 207.6 (H) mm)
Back Light	10,000 hours normal operation
Mechanism	Manual Open/Close
Display Angle	Horizontal: Up/Down < 100°
Source	Composite video input x 2 Composite video output x 1 Audio L/R input x 2 Audio L/R output x 1
Wireless Audio	Infrared audio transmitter (Support IR receiver) Stereo head phone, L-channel: 2.3MHz /R-channel: 2.8MHz) Effective listening angle: 30° Effective range: 4 meter
Dome Light	3W x 2 with door sensor connection
Operating Voltage	DC 11~16V
Operating Current	2.9A, Typical
Operating Temperature	0°C to 55°C

**NOTE:** All specifications are subjected to change without prior notification.



# Specifications

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## GENERAL

Power Supply	13.2V DC Typical
Current Consumption	2.9 A Typical
Remote control	Infrared remote
Mounting	Roof mounting
Dimension (WxDxH)	W 18.1" x D 14" x H 2" (W 460 mm x D 355 mm x H 50 mm)

## AUDIO

Audio Characteristic	2-Channel Analog
Analog Output	1.8V/ 10 kohm load (1kHz)
Analog input	1.8V/ 600 ohm load (1kHz)
Frequency Response	20Hz-20kHz
S/N Ratio	$\geq 70$ dB
Dynamic Range	$\geq 60$ dB
Distortion	$\leq 0.4\%$

## VIDEO

DVD Video	
Video decompression	MPEG-2(ISO/IEC-13818), MPEG-1
Disc format	DVD, CD, MP3, CD-R, C-RW, SVCD
Video Output	1.0Vpp/75 ohm
Video Input	1.0Vpp/75 ohm

## CONNECTORS

Video output	Composite Video Output x1
Audio output	Analog output (L/R) x1
Video input	Composite Video input x 2
Audio input	Analog input (L/R) x 2
Power connector	Power supply input

**NOTE:** All specifications are subjected to change without prior notification.



# 15" (16:9) Overhead Video Monitor/DVD Player

MODEL OHD1500

*NOTE: This section contains a description of the earlier version of this model.*

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# Installation Guide

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## PRECAUTIONS

1. This unit should be installed by an authorized Directed dealer.
2. This product is designed to operate with a 12V DC, negative ground battery system.
3. Disconnect the ground wire from the battery terminal prior to connecting the unit to the electrical system.
4. The wiring from some other products or accessories might bear similar color code as this product; however, they might be of other function. Please refer to the electrical connection diagrams of this product prior to installing to avoid improper connection.
5. Use proper connectors and insulation to prevent electrical damage to the unit.
6. Do not connect the yellow wire and red wire together of this product directly to the +12V. Connect the red wire of this product to the ACC of the ignition key switch and yellow wire to +12V. Failure to do so may result in permanent drainage of the battery charge.
7. Only supplied accessories should be used to avoid damage to the unit during installation.
8. Ensure that the display monitor is suitably installed at a location, such that it will not obstruct the rear view mirror and/or the air condition vents.
9. Do not install this unit at a declining angle exceeding 30 degrees.
10. Do not install screws over the plane surface, which may affect monitor eject or retract function.

## ELECTRICAL CONNECTIONS

### Power Cable (4-pin, one pin not used)

Color Code	Function
Black	This wire is the ground source for the monitor and DVD.
Red	Accessory +12V switched power source for the monitor and DVD. This wire supplies the main power to the system.
Yellow	Constant +12V power. This wire supplies power to the DVD for last position memory.

## Dome Light Cable (5-pin)

Color Code	Function
Black	This wire supplies the ground to the domelight circuit.
Red	This wire supplies +12V switched power to the domelight circuit.
Yellow	This wire supplies +12V constant power to the domelight circuit.
Purple	This wire connects to the (+) door trigger.
Grey	This wire connects to the (-) door trigger.

The Red and Yellow wires should be connected together and then run to the domelight circuit.

## SIGNAL CONNECTION

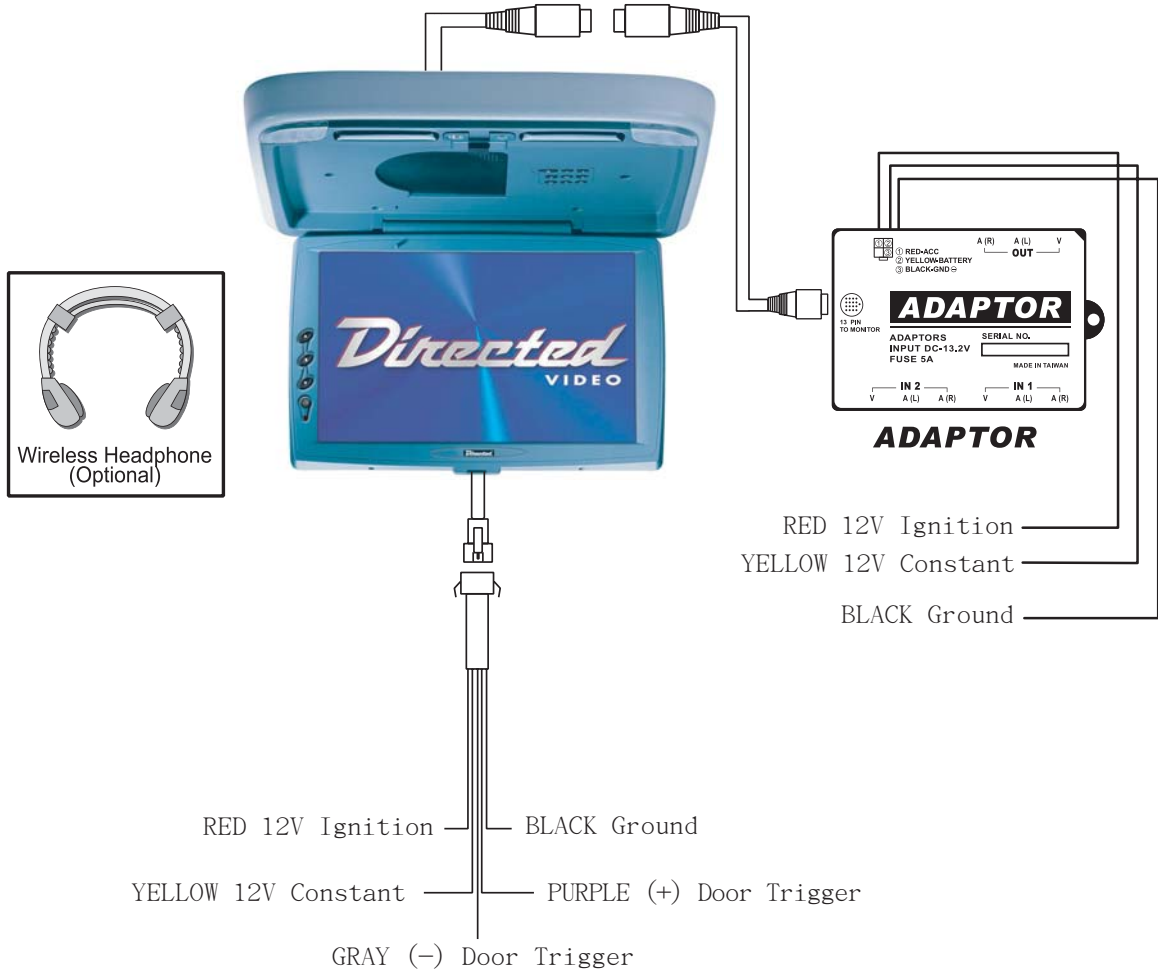
### Adapter Audio

Color Code	Function
Red 1 (RCA)	Audio - Right (Input)
White 1 (RCA)	Audio - Left (Input)
Red 2 (RCA)	Audio - Right (Input)
White 2 (RCA)	Audio - Left (Input)
Red 3 (RCA)	Audio - Right (Output)
White 3 (RCA)	Audio - Left (Output)

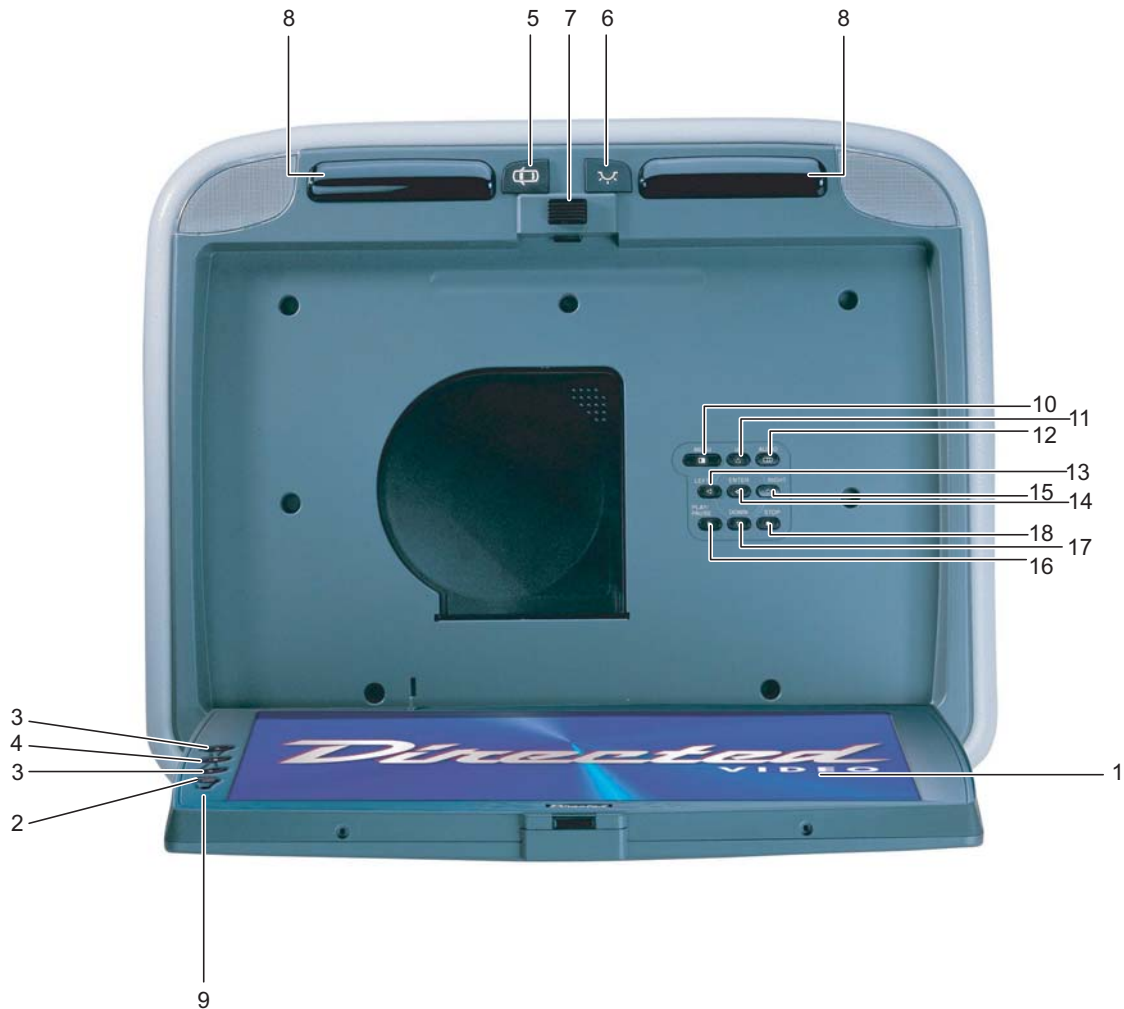
### Adapter Video

Color Code	Function
Yellow 1 (RCA)	Video - In (V-IN 1)
Yellow 2 (RCA)	Video - In (V-IN 2)
Yellow 3 (RCA)	Video - Out (V-OUT 1)






# Typical Wiring Diagram












# Function Keys



## Display and Unit

1. LCD Display
2. Power ON/OFF button 
3. UP/DOWN button 
4. VIDEO MENU button 
5. Door Light ON/OFF button 
6. Courtesy Light 
7. IR Sensor
8. OPEN/Close latch
9. IR transmitter

## DVD Function Keys

10. DVD MENU button 
11. UP button 
12. AUDIO button 
13. LEFT button 
14. Enter button 
15. RIGHT button 
16. PLAY/PAUSE button 
17. DOWN button 
18. STOP button 

# Operating the Monitor

## OPEN/CLOSE THE DISPLAY MONITOR

To open the display monitor, push the "OPEN" latch and pull the monitor down to the desired position.

To close the display monitor, push the monitor up until it latches closed with an audible click.

## Power Up/Down the Display Monitor

The unit will power up when the display monitor is unlatched and pulled down. (If the unit does not power up, press the Power button on either the remote or on the left side of the LCD screen.)


To turn the power Off to the unit, press the POWER button on the remote three times. Also the power will shut Off when the display monitor is placed in the closed and latched position.

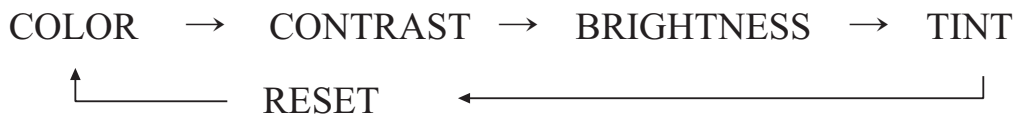
If the icon displays in the upper left-hand corner of the screen when using the remote, it indicates that the command issued is not allowed during the mode that the monitor display is presently in, or is not available on this system.

## SIGNAL SOURCE (MODE)

Press remote (MODE) button to select the input signal AV1, AV2 or DVD.

## FUNCTION MODE (MENU)

Press remote "VIDEO MENU" button or monitor "MENU"  button to activate the screen set up sequence as follows:



COLOR: Color adjustment

BRIGHTNESS: Brightness adjustment


CONTRAST: Contrast adjustment

TINT: Adjustment to color saturation

RESET: Resets COLOR, CONTRAST, BRIGHTNESS, and TINT to factory settings.

Once the desired setting is selected, press the cursor key to the desired setting. If a key is not activated within 5 seconds, this function mode will turn OFF. Once the correct function is selected, press the cursor key (or the desired setting). If no key is depressed, this function mode will turn OFF in about 5 seconds.

## DOOR LIGHT ON/OFF

Engage this switch  to activate the dome light(s) when a door is open.

*Note: This function can be operational only when the Gray wire of the dome light circuit is connected to the door switch.*

## COURTESY LIGHT ON/OFF

Activate this switch  to "ON/OFF" to illuminate the dome light(s).






# Basic Functions

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## DVD PLAYBACK




1. Select video source (DVD).
2. Load a disc into the unit.
3. DVD playback commences.

*Note: The disc will start to play if there are no titles recorded on the disc. If one or more titles are recorded on the disc, a menu screen will appear on the LCD screen.*

4. Press  /  /  /  to select the preferred title.
5. Press the "ENTER" button, the selected item will now start playing.
6. Return to the menu screen.
7. Press the DVD "MENU" button, the menu screen will appear.
8. After operation, press the "POWER"  button to put the unit into standby mode.


*Note: If the "WRONG REGION" message appears, it means that the corresponding operation is prohibited either by the player or by the disc.*

## AUDIO CD PLAYBACK

1. Press the remote control's "POWER"  button or the LCDs "POWER"  button to switch-on the unit's power.
2. Insert a disc into the unit.
3. Press "PLAY/PAUSE"  button to start the playback of the disc.



## FAST FORWARD OR REVERSE (DVD/MP3/CD)

1. Press the "FF"  button during playback. Each time this button is pressed, the unit will go into a rapid advance playback mode. This will be shown on the LCD, depending on the speed of the playback selected.

- CD playback


FF 1X      FF 2X      FF 3X      FF 4X      PLAY

Press "PLAY" button, the speed will go back to standard.

- MP3/DVD playback

FF 2X      FF 4X      FF 6X      FF 8X      PLAY

Press "PLAY" button, the speed will go back to standard.

2. Press the "FR"  button during playback. Each time this button is pressed, the unit will go into a rapid reverse playback mode. This will be shown on the LCD, depending on the speed of the playback selected.

- CD playback

FR 1X      FR 2X      FR 3X      FR 4X      PLAY

Press "PLAY" button, the speed will go back to standard.

- DVD playback

FR 2X      FR 4X      FR 6X      FR 8X      PLAY

Press "PLAY" button, the speed will go back to standard.

## NEXT TRACK OR PREVIOUS TRACK (DVD/MP3/CD)

1. Press the "NEXT"  button during playback.

- MP3/Audio CD

The player will skip forward to the next track each time the button is pressed. "NEXT" will be displayed on the LCD screen.

- DVD

The player will skip forward to the next title/chapter each time the button is pressed. "TITLE aa/bb CHAPTER cc/ddd" will be displayed on the LCD screen.

WHERE    aa:Current TITLE  
          bb:Total TITLE  
          cc:Current CHAPTER  
          ddd:Total CHAPTER

2. Press the "PREV"  button during playback.



- MP3/Audio CD

The player will skip to the beginning of the previous track each time the button is pressed. "PREVIOUS" will be displayed on the LCD screen.







- DVD

The player will skip to the beginning of the previous chapter each time the button is pressed.

## PLAY/PAUSE (DVD/MP3/CD)

1. Press the "PLAY/PAUSE"  button, during playback. "PAUSE" will display on the LCD. The player is placed in the pause mode.
2. Press the "PLAY/PAUSE"  button again. "PLAY" will momentarily display on the LCD. The player returns to normal playback.

## STOP (DVD/MP3/CD)

1. During Audio CD playback, when "STOP"  button is pressed, the CD playback will stop.
2. During DVD playback, when the "STOP"  button is pressed, the DVD playback will stop. "PRESS PLAY TO CONTINUE" will display on the LCD. Press the "PLAY/PAUSE"  button to continue playback from the point where the "STOP"  button was pressed.
3. During DVD playback, if the "STOP"  button is pressed twice. "STOP" will display on the LCD. Press the "PLAY/PAUSE"  button to resume playback from the first chapter of the DVD.

**NOTE:** The resume playback function is not available for audio CDs.

## "GO TO" FUNCTION (DVD/MP3/CD)

The "GO TO" function enables you to go to a specific location by entering the time/track/chapter or title.

### ■ MP3/Audio CD

When the "GO TO" button is pressed the following will be displayed:

GOTO \_ \_ : \_ \_

Use the numeric keys to enter the desired disc time and pressing the "ENTER" button will cause the player to start playing at the selected time.

### ■ DVD

When the "GO TO" button is pressed once the following is displayed:

(1) TITLE xx/xx CHAPTER xxx/xxx

If the "GO TO" button is pressed twice the following is displayed:

(2) TITLE xx/xx xx:xx:xx

Use the numeric keys to enter the desired title or chapter or chapter time and pressing the "ENTER" button will cause the player to start playing at the selected title, chapter or chapter time.

## ADVANCED PLAYBACK (DVD/MP3/CD)

### REPEAT MODE

#### ■ MP3/Audio CD

When the "REPEAT" button is pressed:

REP ONE = The current track will be repeated.

FOLDER REP = The current folder will be repeated.

FOLDER = All the folders will be repeated.

#### ■ DVD

When the "REPEAT" button is pressed:

CHAPTER REPEAT = The current chapter will be repeated.

TITLE REPEAT = After the DVD plays, the current title menu will be displayed.

REPEAT OFF = The repeat mode will be switched off.

### CAMERA ANGLE (DVD)

Some DVD discs may contain scenes, which have more than one viewing angle. For these discs, the same scene can be viewed from a different angle by using the "ANGLE" button.

1. During DVD playback, press the "ANGLE" button. "x/y" will appear. "x" represents the current camera angle, and "y" represents the total number available camera angles.
2. Press the "ANGLE" button until the preferred angle is selected. The ANGLE selection will cycle through all available camera angles.

***NOTE:** This function will only work on discs where multiple camera angles have been recorded.*

### AUDIO FUNCTION (DVD)

The audio function works only for discs that have multiple audio soundtracks.

During DVD playback, press the AUDIO button. "AUDIO x/y" will appear, x represents the current audio stream and y represents the total available audio streams.

Press the "AUDIO" button until the preferred audio stream is selected. The "AUDIO" selection will cycle through all available audio streams.

## SUBTITLE (DVD)

During DVD playback, you may change the subtitle language from the one selected at the initial setting to a different language, if available.

(1) Press the "SUBTITLE ON/OFF" button.

(2) During DVD playback and SUBTITLE ON, press the "SUBTITLE" button. "SUBTITLE x/y" will appear, x represents the current subtitle and y represents the total available subtitle. Press the "SUBTITLE" button until the preferred subtitle is selected. The "SUBTITLE" selection will cycle through all available subtitles.

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