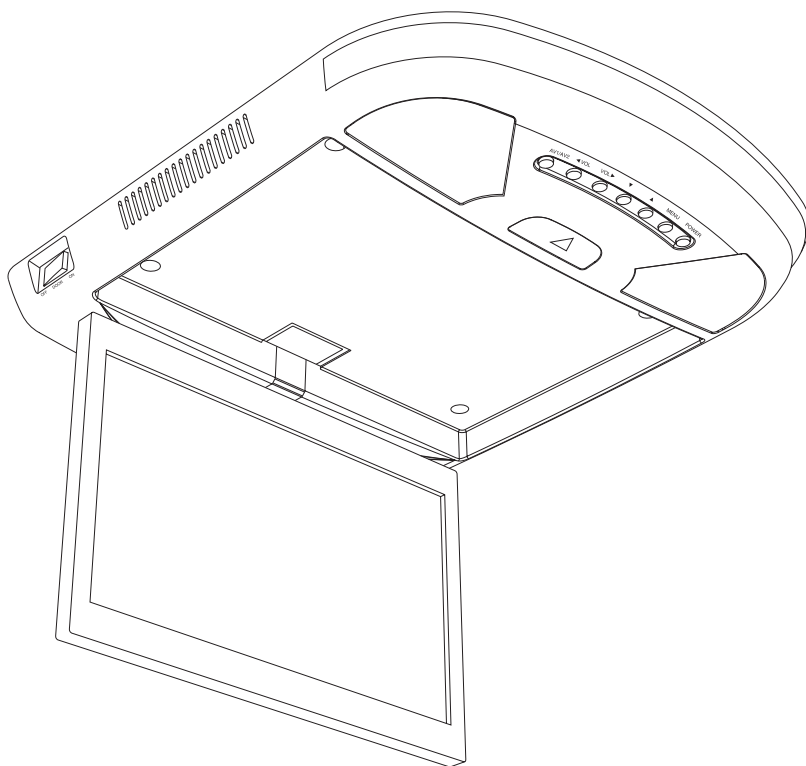


10.2" WIDE TFT LCD FLIP-DOWN MONITOR

Manual



MODEL : LFD 102

NOTICES & SAFETY INTRODUCTION

1. READ INSTRUCTIONS:

All the safety and operating instructions should be read before the monitor is worked.

2.RETAIN INSTRUCTIONS:

The safety and operating instructions should be retained for future reference.

3. HEED WARNINGS:

All warnings on the monitor and in the operating instructions should be adhered to.

4.FOLLOW INSTRUCTIONS:

All operating and maintenance instructions should be followed.

5. CLEANING:

Unplug this monitor from the wall outlet before cleaning.

Do not use liquid or aerosol cleaners.

Use a dry cloth used for dusting cabinets.

6. ATTACHMENTS:

Do not use attachments not recommended by the monitor product manufacturer as they may be hazardous.

7. POWER SOURCES:

The monitor should be operated only from the type of power source indicated on the label.

If you are not sure of the type of power supply at your home,consult your appliance dealer or local power company.

This monitor is intended to be operated from battery power, or other sources, refer to the operating instructions.

8. 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 or plugs, convenient receptacles, and the point where they exit from the unit.

9. LIGHTNING:

For added protection of monitor during a lighting storm or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system.

This will prevent damage to the monitor due to lightning and power-line surges.

10. POWER LINES:

An outside system should not be located in the vicinity of overhead power lines or other electric light or power circuits where it can fall into such power lilnes or circuits, When installing an outside system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

NOTICES & SAFETY INTRODUCTION

11.OVERLOADING:

Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.

12. OBJECTS AND LIQUIDS:

Never push objects of any kind into this monitor through openings as they may touch dangerous voltage points or short out a part that could result in a fire or electric shock. Never spill liquids of any kind onto the monitor. Should spillage occur, unplug unit and have it checked by a technician before use.

13. SERVICING:

Do not attempt to service this monitor yourself.

Opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.

14. DAMAGE REQUIRING SERVICE:

Unplug this monitor from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power-supply cord or plug is damaged.
- b. If any liquid has been spilled onto, or objects have fallen into the monitor.
- c. If the monitor has been exposed to rain or water.
- d. If the monitor does not operate normally by following operating instructions, adjust only those controls that are covered by the operating instructions. Improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the monitor to its normal operation
- e. If the monitor has been dropped or the cabinet has been damaged.

15. REPLACEMENT PARTS:

When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer on used replacement part having the same characteristics as the original part.

Unauthorized substitutions may result in fire, electric shock or other hazards.

16. SAFETY CHECK:

Upon completion of any service or repairs to this monitor, ask the service technician to perform safety checks to determine that the monitor is in safe operating order.

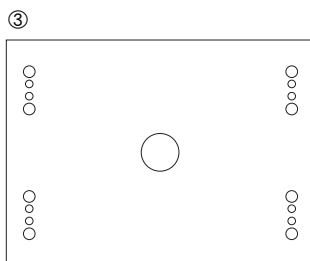
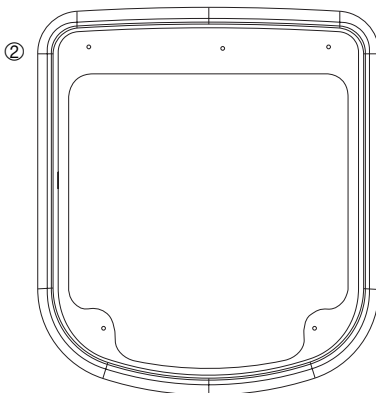
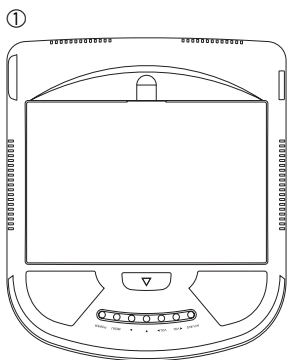
CAUTION

USE OF ANY CONTROLS, ADJUSTMENTS, OR PROCEDURES OTHER THAN SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CONTENTS

1. MATERIALS INCLUDED IN THIS PACKAGE	05
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1. MATERIALS INCLUDED IN THIS PACKAGE



① Control Panel

② Shroud (option)

③ Bracket Mount

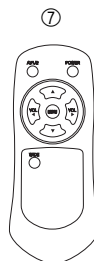
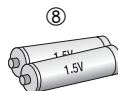
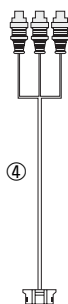
④ RCA Connectre x 2

⑤ T 2.6 x 15 Screws (8pcs)

⑥ T 4.0 x 15 Screws (4pcs)

⑦ Remote Contrroller

⑧ Battery(AAA 2pcs)



2. INSTALLATION PREVIEW AND PREPARATION

Read carefully all manuals and decide system configuration and options to be installed and decide mounting sites of all components and way of mounting.

Prepare the vehicle by taking off any interior trim to obtain access to vehicle's wiring.

Any access holes can be cut into the vehicle now.

When you route the wiring harnesses, make sure that wiring is not damaged by sharp edges leave enough slack in the wiring of each component for workspace.

Take off all A/V system components from their locations and connect them together to test proper operation of all system functions.

Proceed to mount of each component if the operation is proper.

After all components are mounted, check operation of all system functions again ensuring that no wiring was pinched or connected improperly during final installation.

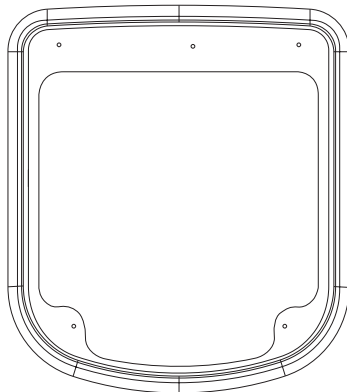
Find the locations of a constant power source(+12V at all times), an accessory power source(+12V when key is in the ACC , and run positions, and 0V when key is off), and a ground as well, You can find these wires at the ignition switch.

The best site for the video monitor is where the vehicle's factory dome light is installed so that rear seat passengers can comfortably watch the monitor.

3. SHROUD INSTALLATION(OPTION)

If MONITOR is to be installed in a vehicle with the SHROUD this console may need to be trimmed to fit the contour of the vehicle headliner.

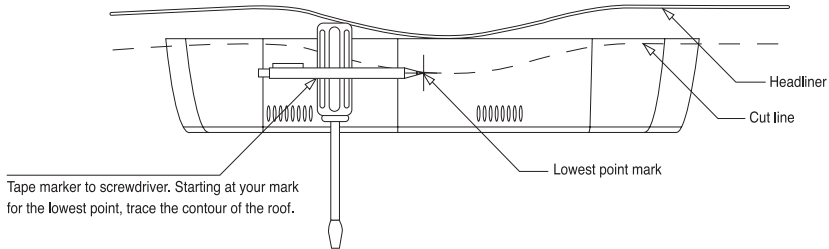
- 1) In this installation, the MONITOR is mounted directly to the overhead crossmember in the roof by using the mounting screw bosses. these screw bosses should contact the cross-member directly(i.e.:no gap between the screw boss and the roof structure). Also, be sure that the screws do not pierce the outer roof skin when fully fastened to the cross-member. The SHROUD is attached to the MONITOR by using the perimeter screws bosses. It is important that the screws used in this installation are not overtightened, and that the MONITOR and SHROUD are mounted in such a way that the assembly does not distort(or bend) when the mounting screws are tightened.



- 2) There should be a gap between the headliner and the outer flange of the MONITOR. The SHROUD should be cut to full this gap. Apply masking tape to the outer surface of the SHROUD in the areas where the cut will be made.
- 3) Mark the cut to follow the necessary contour of the roof. The suggested method of marking is as follows:
 - A) first mark the narrowest point of the SHROUD on the masking tape. Be careful to consider not only vertical location, but fore-aft location.
 - B) Using the handle of a screwdriver, make a “transfer marking tool”. See diagram below. Place the tool against the roof and the marker against the masking tape on the SHROUD. Trace the cut to be made around the entire perimeter of SHROUD.
 - C) Cut the SHROUD using a sharp utility knife or shears. Make the cut in several passes over the marked line, each time cutting a little deeper. It is not necessary to cut completely through the plastic, the cut only need be over 50% of the wall thickness of the plastic. By bending the cut back and forth several times, the plastic will break cleanly at the cut.
 - D) Check the fit of the trimmed console and make any minor adjustments necessary.

3. SHROUD INSTALLATION(OPTION)

- 4) The SHROUD can be painted or covered with a material that matches the headliner before assembling the SHROUD to MONITOR.
- 5) The finished SHROUD should be attached to the MONITOR, then attach the assembly to the roof.

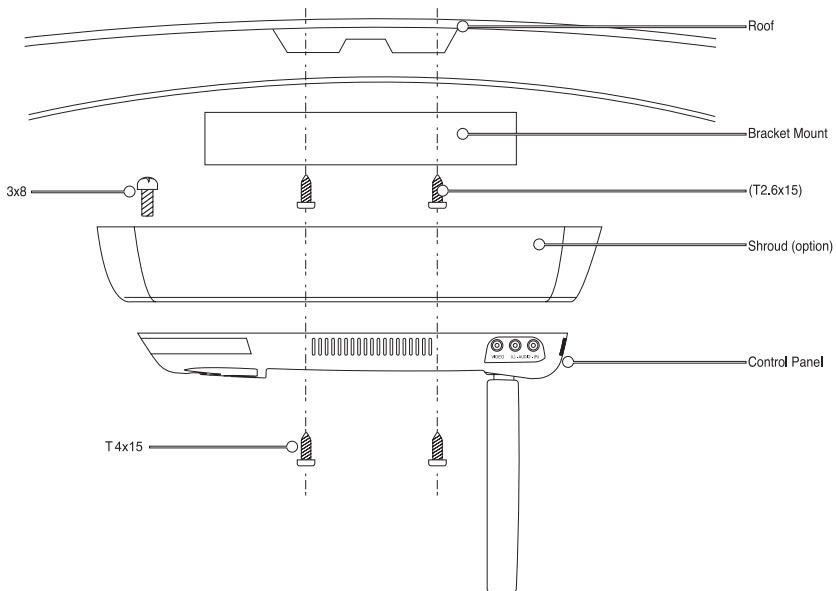


This page shows cover special installation of the Shroud.
Should be need to trimmed to fit the contour of the vehicle headliner when LCD.

- 1) Monitor is to be installed in a vehicle with the shroud.
- 2) These screw bosses should contact directly to the cross-member by using the mounting screw bosses to overhead cross-member at the roof.
- 3) When fully fastened to the cross-member make sure the screw do not pierce the outer roof skin. Use the perimeter screw bosses for while LFD-console attached to the LCD monitor. It is very significant that the screws used in this installation are not over tightened, and then the LCD monitor and LFD-console are mounted in such a way that the assembly does not distort when the mounting screws are tightened.
- 4) Another method is to use a piece of plywood($12 \times 9 \times 3/4$ "). That screws the LCD monitor into the plywood before the plywood block to the cross-member on make secure.
- 5) Mount the LCD monitor to the roof structure first and then attach with console. There should be a gap between the headliner and the outer flange of the LCD monitor. The shroud should be cut to complete this gap.
- 6) Apply masking tape to the outer surface of the shroud in the areas where the cut will be made.

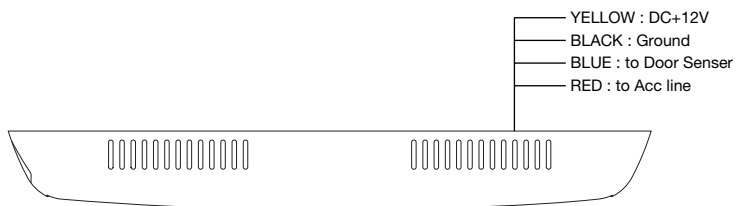
3. SHROUD INSTALLATION(OPTION)

- 7) Make the cut to follow the need contour of the roof. The recommended method of indicated is as follows:
- ① Mark the narrowest point on the masking tape first of shroud.
 - ② Carefully examine not only vertical position, but fore-aft location.
 - ③ Using the handle of a screwdriver, make a transfer marking tool. See diagram below. Place the tool against the roof and the marker against the masking tape on the shroud.
 - ④ Cut the shroud using a sharp utility knife. Make the cut in several passes over the marked line, each time cutting a little deeper to half of the wall thickness of the plastic. The plastic will be break easily at the cut by bending several times.
 - ⑤ Make any small adjustments, if necessary.
- 8) The shroud can be decorated with a material that fits the headliner before assembling the shroud to monitor.
- 9) The finished shroud should be attached to the monitor, then mount the assembly to the roof.

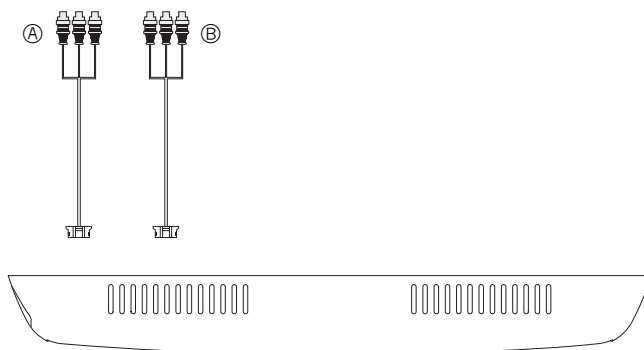


4. CONNECTING

① How to connect the power cable



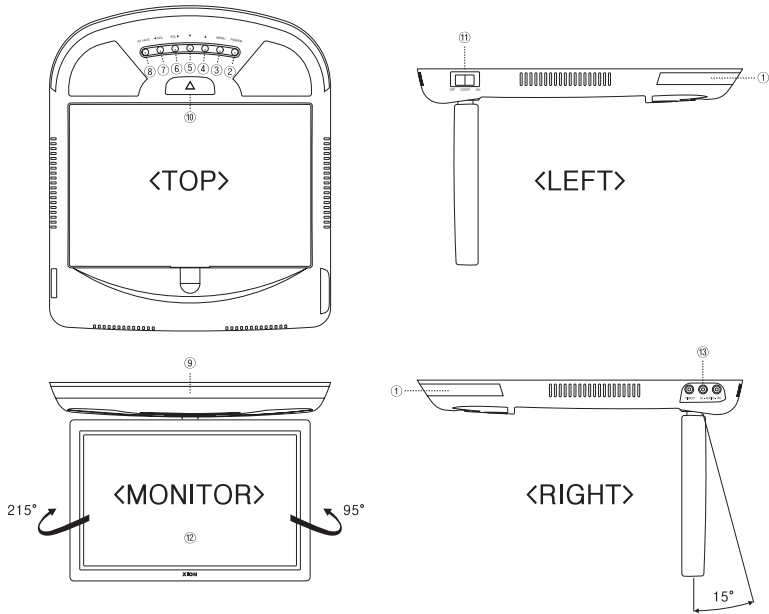
② How to connect video/audio cable



5.FEATURES

- ① DV 12V
- ② 10.2" WIDE TFT LCD SCREEN
- ③ LOW REFLECTION HIGH RESOLUTION TFT LCD
- ④ OSD(ON SCREEN DISPLAY)
- ⑤ COLOR SYSTEM(NTSC,PAL & SECAM)
- ⑥ BUILT-IN IR TRANSMITTER
- ⑦ BUILT-IN FM MODULATOR
- ⑧ ANTI SHOCK & ANTI MOISTURE MACHANISM
- ⑨ AUTO POWER OFF (FLIP-UP POSITION)
- ⑩ 2 AV INPUTS/1 AV OUTPUT
- ⑪ DOME LIGHTS
- ⑫ MULTI ASPECT RATIO SUPPORT
- ⑬ HIGH RESOLUTION 800x480(PIXELS 384,000)
- ⑭ FULL FUNCTION OSD REMOTE CONTROL

6.MAIN FUNCTION DESCRIPTIONS



- ① **Infrared Transmitter**
Use to transmit audio to wireless headphones.
- ② **Power button**
The button to turn the monitor on or off.
- ③ **Menu button**
The button to select the functions that do not exist in this buttons panel(For example, to change of picture's quility, turn 'TM Transmitter' on/off.).
Use the Up (▲) and Down (▼) button to select the function and press enter once more this button to activate setting selected. The button to return to the previous menu.
- ④ **Up (▲) button**
The button to up in the menu's state.
- ⑤ **Down (▼) button**
The button to down in the menu's state.
- ⑥ **Volume Up (►) button**
The button to raise the level of the wireless headphone's volume and FM Radio's volume.

6.MAIN FUNCTION DESCRIPTIONS

⑦ **Volume Down (◀) button**

The button to decrease the level of the wireless headphone'volume and FM Radio's volume.

⑧ **AV1/AV2 button**

The button to select one of the two sources(AV1's mode and AV2's mode).

⑨ **Center Remote Sensor**

Allows the remote control to operate the monitor.

⑩ **Screen release**

Push the button to release the drop down screen.

⑪ **Three button Dome Light Switch**

Auto Automatically switches on the dome light in conjunction with the vehicle's interior illumination.

off - The dome lights will not turn on in this position

on - Turns on the dome lights.

⑫ **Drop Down LCD Pannel**

⑬ **A/V2 INPUT JACK**

7.REMOTE CONTROL OPERATION

① **Power button**

Press this button to turn the monitor on.
Press the button again to turn the monitor off.

② **AV1/2 button**

The button to select one of the two sources(AV1's mode and AV2's mode).

③ **Menu button**

The button to select the functions that do not exist in this buttons pannel(For example, to change of picture's quility, turn 'TM Transmitter' on/off, etc.). Use the Up (▲) and Down (▼) button to select the function and press enter once more this button to activate setting selected. The button to return to the previous menu.

④ **Up (▲) button**

The button to up in the menu's state.

⑤ **Down (▼) button**

The button to down in the menu's state.

⑥ **Volume Up (►) button**

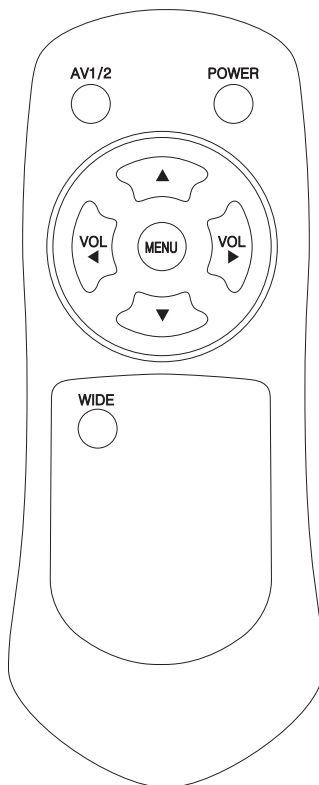
The button to raise the level of the wireless headphone'volume and FM Radio's volume.

⑦ **Volume Down (◄) button**

The button to decrease the level of the wireless headphone'volume and FM Radio's volume.

⑧ **WIDE button**

The button to select the LCD screen mode(Wide, Normal)



8.GENERAL SETUP PAGE

① PICTURE

If you press the menu key of key pannel or remote control, you can see the follwing function table.

Picture	
Brightness	50
Contrast	50
Color	50
Sharpness	50
Tint	50
MOVE : ▲▼ ADJ : ◀▶ NEXT : ■	

- 1) Brightness: Select Brightness item by ▲, ▼ button and adjust at the desired level by VOL ◀, ▶ button.
- 2) Contrast : Select Contrast item by CH ▲, ▼ button and adjust at the desired level by VOL ◀, ▶ button.
- 3) Color : Select Color item by CH ▲, ▼ button and adjust at the desired level by VOL ◀, ▶ button.
- 4) Sharpness : Select Sharpness item by CH ▲, ▼ button and adjust at the desired level by VOL ◀, ▶ button.
- 5) Tint : Select Tint item by CH ▲, ▼ button and adjust at the desired level by VOL ◀, ▶ button.

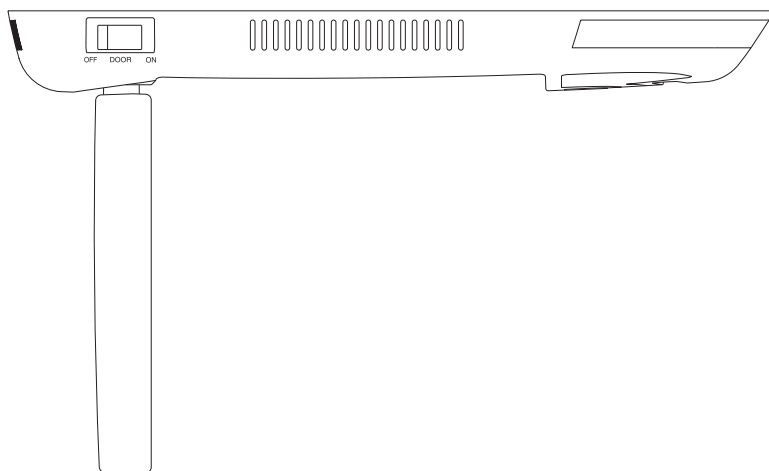
② FUNCTION

If you press twice the menu key of key pannel or remote control, you can see the follwing function table

FUNCTION	
FM Transmitter	ON
FM Frequency	88.3MHz
Mode	Wide
Auto Power	ON
Transparent	00
Reverse	OFF
MOVE : ▲▼ ADJ : ◀▶ NEXT : ■	

- **FM Transmitter : FM Transmitter ON/OFF function**
Select FM Transmitter item by ▲, ▼ button and Press ◀, ▶ button.(ON/OFF)
- **FM Frequency : Select FM Frequency. (88.3MHz - 90.2MHz)**
Select FM Frequency item by ▲, ▼ button and Press ◀, ▶ button.
- **Mode : Display Size adjust function. (Wide: 16: 9 / Normal 4 : 3)**
Select Display item by ▲, ▼ button and Press ◀, ▶ button.
- **Auto Power : Turn the monitor on automatically if power source is only connected.**
Select Auto Power item by ▲, ▼ button and Press ◀, ▶ button.
- **Transparent : OSD Transparence adjust function. (0 - 100)**
Select Transparent item by ▲, ▼ button and Press ◀, ▶ button.
- **Reverse: Display Reverse function.(ON/OFF)**
Select Transparent item by ▲, ▼ button and Press ◀, ▶ button.

9.CEILING DOME LIGHT



DOME LIGHT SWITCH

Ceiling dome lights are controlled by three button switch attached to control panel.

Switching-ON mode turn the dome lights on while switching-OFF mode turn the dome lights off.

With the AUTO switching mode, dome lights automatically turn on and off in conjunction with the vehicle's interior lights.

Please make sure not to leave the vehicle with switching-ON mode because this might cause discharge of battery.

For the wire connection, please refer to the installation manual.

10.SPECIFICATION

Power Requirements	12V	
Power Consumption	• Main	12W
	• Lamp	10W
Weight	• Control Pannel	1.2kg
	• Total	2.3kg
Dimensions	• Control Panel	331x284x33(mm)
	• Total	403x308x51(mm)
Operating Temperature Range		0~60℃
Operating Humidity Range		10~80%
Video Display System		NTSC, PAL AND SECAM
Display Resolution		800x480(pixels 384,000)
Active area(mm)		217.2(H)x130.32(V)
Screen Size(inch)		10.2"(diagonal)
Brightness		350cd/ m ²
Viewing angle		60 degree
Composite Video input		2 channel
Composite Video output		1 channel
Headphone Audio Output		IR Wireless (L : 2.3MHz, R : 2.8MHz)
FM Transmitter		88.3MHz~90.2MHz

FCC COMPLIANCE STATEMENT

This device complies with Part 15 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.

FCC Part 15.21: Information to user

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. In cases where the manual is provided only in a form other than paper, such as on a computer disk or over the Internet, the information required by this section may be included in the manual in that alternative form, provided the user can reasonably be expected to have the capability to access information in that form.

MEMO
