

LCD Motorized Ceiling Mount Monitor

Owner's Manual



Including Warranty Card.



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Safety Precautions

This is important safety information, read all instructions before using to prevent any accident and danger and to ensure the proper purpose. Please, keep this in the user's visible area after reading.

Safety precautions are divided into 'Warning' and 'Caution' and its meaning is as below :



If you do not handle with care it may bring danger.



If you do not handle with care it may cause serious injury and serious damage to the product.



WARNING



For safe driving, driver should not watch the monitor or operate the device.

- If the driver watch Monitor while car is in motion, it may cause an accident.



Except the service technician, do not disassemble, repair and remodel the device.

- It may result in fire, breakdown.



Do not drop or give a shock to the device.

- It may result in fire, breakdown.



Do not install the device where it may impair the performance of driving and airbag or where it may cause personal injury by sudden stop.



Do not plug several wires into cigar-jack.

- It may bring danger of fire or disconnection.



Unplug this product before cleaning. Use a dry-cloth and do not use liquid cleaners such as benzene or thinner.



Do not spill water, drink or any kind of liquid on the device.

- It may bring danger of breakdown, electric shock or fire.



Do not install the product near heat sources such as heaters, radiator or ventilator of vehicle.

- It may bring the transformation of discoloration of the product.



CAUTION



The device setup should be entrusted to an expert technician.

- Please refer to the connecting diagram in owner's manual, distribute wires, entrust to an expert if it is necessary.



Please play a volume properly.

- With a condition which can not hear around or outside of vehicles, may cause an car-accident.



Do not use this product when the engine is turned on.

- It may result in battery drainage, can not start up the engine.



Disposal of Old Electrical & Electronic Equipment (Applicable in the European Union and other European countries with separate collection systems)

- This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product.

The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.



Important Note :

1.This product should keep with the temperature $-20^{\circ}\text{C} \sim 80^{\circ}\text{C}$.

- Please be note that the temperature of vehicles could rise to 100°C during summer days.

2. When the temperature intensely low or high, the screen could not display or enter slowly.

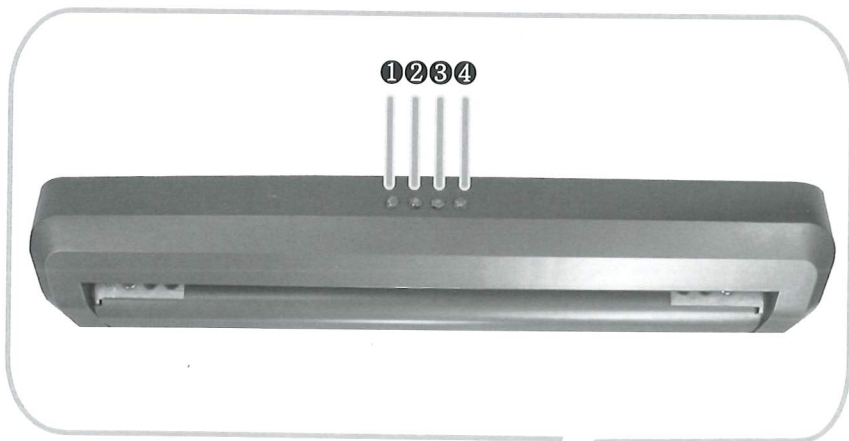
Since the display will enter after a couple of minutes, that is not defected.

- The usable temperature of this product is $0^{\circ}\text{C} \sim 40^{\circ}\text{C}$.

Name and functions of each parts



Monitor



YELLOW
(POWR TRIGER MODEL)



7



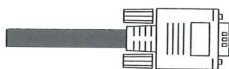
VIDEO INPUT

8



VIDEOOUT
(OPTION)

9



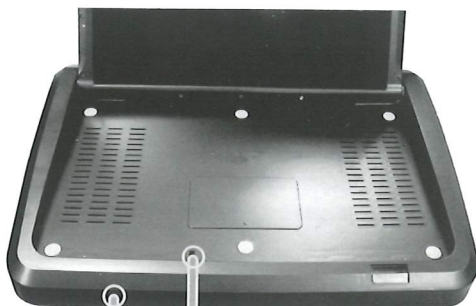
VGA INPUT
(OPTION)

10



HDMI INPUT
(OPTION)

11



6

5

1. MINUS BUTTON

* Use this button to decrease menu item in MENU.

2. PLUS BUTTON

* Use this button to increase menu item in MENU.

3. SELECT BUTTON

* Use this button to select menu.

4. MENU BUTTON

* Use this button to display menu.

* In case is key protection model : Press next key sequentially to use menu button, 2-2-3-3-4 (plus-plus-select-select-menu)

5. FLIP SWITCH

* Use at motor action.

6. REPAIR HOLE

* Use the hole to open monitor
(If monitor locking device broke down)

7. POWER ON/OFF TRIGGER (POWER TRIGGER MODEL)

* Monitor power on/off.
(ACC : POWER ON GND : POWER OFF)

8. VIDEO INPUT

* Connect video input to video device.

9. VIDEO OUT (OPTION)

* Connect video output to video device.

10. VGA INPUT

* Connect VGA input to VGA device.

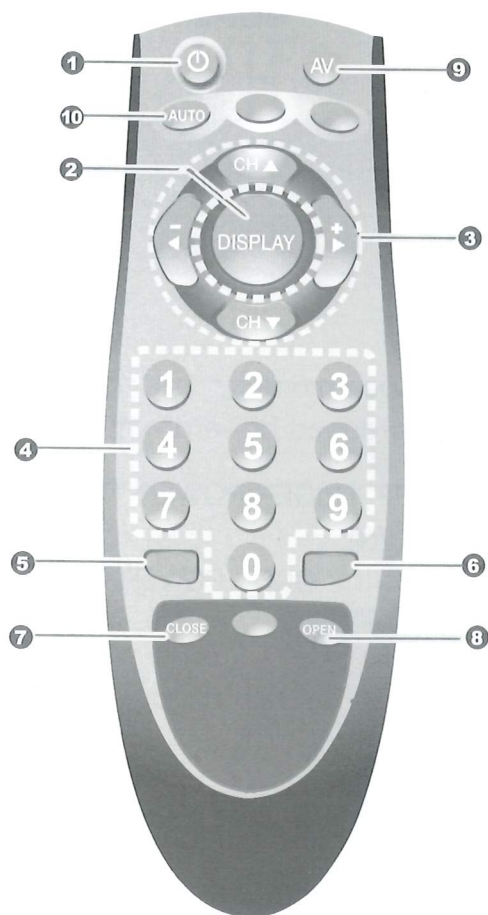
11. HDMI INPUT

* Connect HDMI input to HDMI device.

Name and functions of each parts

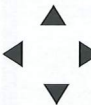


Remote Control



① POWER : MANUAL POWER ON / OFF

② DISPLAY : SELECT MENU

③  : ARROW KEY
(MENU VALUE ADJUST)

④ NUMBER KEY : DUMMY KEY

⑤ - : DUMMY KEY

⑥ DIM : ADJUST THE BRIGHTNESS

⑦ CLOSE : CLOSE MONITOR

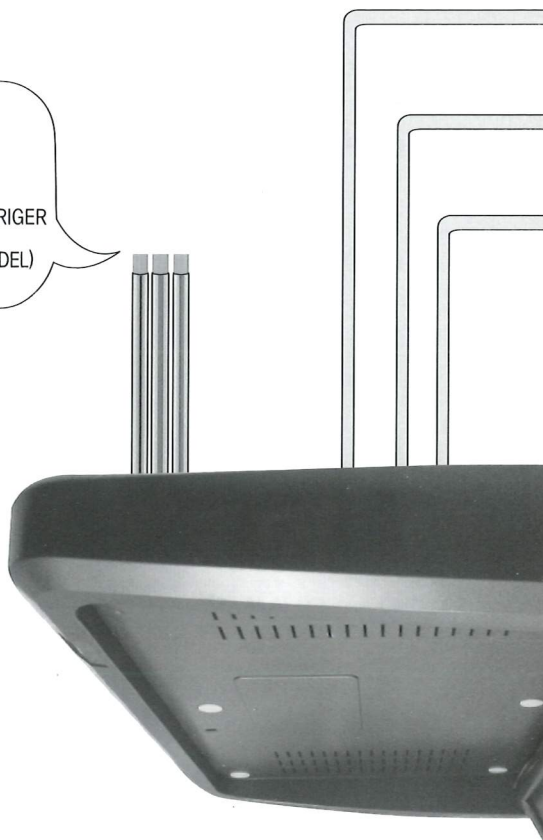
⑧ OPEN : OPEN MONITOR

⑨ AV : VIDEO SWITCH (OPTION)

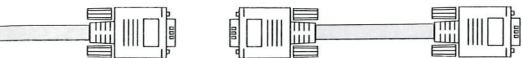
⑩ AUTO : VGA AUTO POSITION (OPTION)

Components Connecting Diagram

RED : + ACC POWER WIRE
BLACK : GND
YELLOW : POWER ON/OFF TRIGGER
(In case is POWER TRIGER MODEL)



VGA INPUT (OPTION)



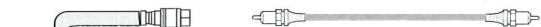
HDMI INPUT (OPTION)



VIDEO INPUT



VIDEO OUT(OPTION)



Motor Action Function

1 Automatically Motor Action

- If ACC POWER is linked in monitor OPEN state, monitor automatically CLOSE do.
- Motorized model does monitor OPEN/CLOSE automatically according to POWER ON/OFF state.
- When monitor is not gotten closed by impact and so on of vehicles driving, close monitor automatically afiter a moment.
- When motor does malfunction, motor operates for opposite direction automatically and prevents overload of motor.

VIDEO POWER MODEL

- If video sign gets into CHECK ON staatus, become POWER ON automatically.
- If video sign gets into CHECK OUT status, become POWER OFF automatically.

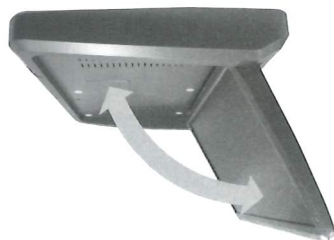
POWER TRIGER MODEL

- If ACC is linked to POWER TRIGER, become POWER ON automatically.
- If ACC is unconnect to POWER TRIGER, become POWER OFF automatically.

How to use

1 Monitor - Operation

- IF ACC POWER is linked.
do automatic checking about
3 seconds.
(POWER LED does ON/OFF
during automatic checking)



2 Monitor - Quickstart

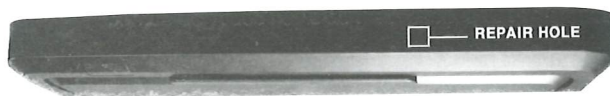
1. User connects all cables in following line.
(RED : +ACC (18~35V) BLACK : GND)
2. In case is VIDEO POWER MODEL : Input video to VIDEO INPUT
and do POWER ON.
In case is POWER TRIGGER MODEL : ACC is linked to POWER TRIGGER
and do POWER ON.
3. If use MENU button, can use various kinds functions.
In case is key protection model : Press next key sequentially
use menu button.
2-2-3-3-4 (plus-plus-select-select-menu)
4. In case is VIDEO POWER MODEL : User removes VIDEO INPUT,
product becomes POWER OFF.
In case is POWER TRIGGER MODEL : ACC unconnects to POWER TRIGGER,
product becomes POWER OFF.

3 Monitor - Locking broke down

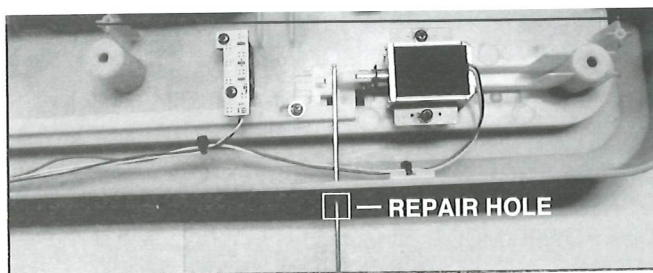
If monitor locking device broke down, monitor does not open.

*User opens monitor, need following work.

- Remove acc power.

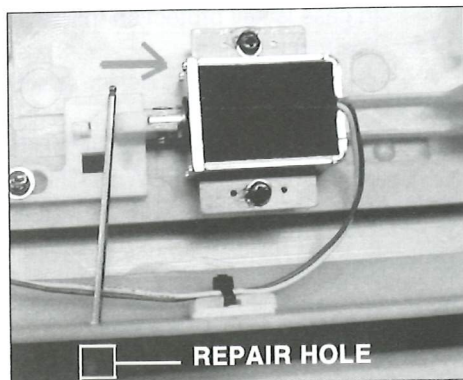


- Let in driver to REPAIR HOLE.



- Driver moves utilization locking device for right side direction

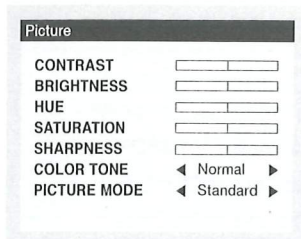
-Keep the state and monitor does open.



Monitor Function

1

PICTURE Menu

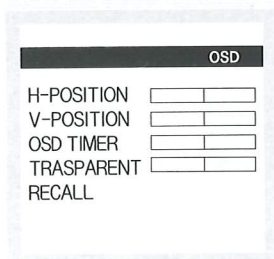


- You can see the Picture menu as you pressing : Menu → Select in device or Menu → ▼ / ▲ in remote control
- Using ◀ / ▶ → Select on device or ▼ / ▲ → Select in remote control move the cursor to select sub-menu, using ◀, ▶ button set up the set-point.

SUB MENU

- **CONTRAST** : Use to adjust contrast.
- **BRIGHTNESS** : Use to adjust brightness.
- **HUE** : Use to adjust color.
- **SATURATION** : Use to adjust tint
- **SHARPNESS** : Use to adjust the degree of definition
- **COLOR TONE** : Use to choose prefer color tone
- **PICTURE MODE** : Use to choose the displaying condition among STANDARD, MOVIE, VIVID, USER.

2 OSD Menu

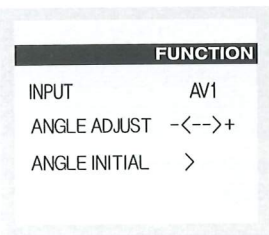


- You can see the OSD menu as you pressing : Menu → Select in device or Menu → ▼ / ▲ in remote control
- Using ◀ / ▶ → Select on device or ▼ / ▲ → Select in remote control move the cursor to select sub-menu, and using ◀, ▶ button set up value of each item.

SUB MENU

- **H-POSITION** : Use to adjust the horizontal spot of OSD box.
- **V-POSITION** : Use to adjust the vertical spot of OSD box.
- **OSD TIMER** : Use to adjust the durable time of OSD box.
- **TRASPARENT** : Use to adjust the transparency degree of OSD box.
- **RECALL** : Use to set picture default value

3 FUNCTION Menu



- You can see the **FUNCTION** menu as you pressing : Menu → Select in device or Menu → ▼ / ▲ in remote control
- Using ◀ / ▶ → Select on device or ▼ / ▲ → Select in remote control move the cursor to select sub-menu, and using ◀, ▶ button set up value of each item.

SUB MENU

- **INPUT** : Use to change video input (OPTION)
- **ANGLE ADJUST** : Use to adjust Monitor angle
MINUS : Decrease Monitor angle.
PLUS : Increase Monitor angle.
- **ANGLE INITIAL** : Use to Intialize Monitor angle.

TROUBLESHOOTING

- You can solve the simple problem with this, please check before asking for assistance.

Trouble	Check Point
No power	<ul style="list-style-type: none">- Check the Power cable is connected properly.
Remote control does not work properly.	<ul style="list-style-type: none">- Please let be away from the direct ray of light.- Make remote control same direction with the remote control sensor.- Check or change the battery of remote control.- If the remote control storages in the closed area of vehicle or under directly to the sun, the battery will be discharged.- In case of the leaking of battery liquid, wipe it and change battery.
No picture + No sound	<ul style="list-style-type: none">- Check the Power cable is connected properly.- Check the direction of Picture/Sound connector of A/V connection cable.
Picture without sound	<ul style="list-style-type: none">- Check the volume.- Check the MUTE function is ON/OFF.
Sound without picture	<ul style="list-style-type: none">- Check the AV mode is selected correctly.- Check the brightness and color of monitor adjusted properly.
Distorted sound	<ul style="list-style-type: none">- Check the Power & Voltage is provided properly.- Check A/V INPUT is connected correctly.
No display Monitor	<ul style="list-style-type: none">- Check the antenna is connected correctly.- Check if area's frequency is low, move to the area where the frequency is high.- Adjust the length and the angle of antenna.



CAUTION

When moisture, a foreign element go into the device or happen anything unusual such as smoke, strange noise, smell, etc., please disconnect Power Cable immediately and ask repair to A/S center. If you keep on using the device with this condition, it may cause breakdown of course, can bring hazard such as fire, electric shock. Also, please do not reorganize the device because there run high voltage.

PRODUCT SPECIFICATION

Power Requirement	24V(18~35V)
Power Consumption	24 ~ 72 Watt
Video Output Level	1Vp-p, 75Ω(COMPOSITE)
Video Input Level	1Vp-p, 75Ω(COMPOSITE)
Audio Input Level	500mV / 47Kohm

Manufacturer's Limited Warranty

Product Warranty

Product Name :

Model Name :

Date of Purchase : year month day

Customer's Name :

Address :

Tel. Number :

Dealer's Name :

1. To obtain warranty repair service, this card must be filled in and authenticated by the dealer from whom you purchase this product.
2. For a period of 1 (one) year from the Date of Purchase, will be free of charge for the repair of the defective product by Shinhwa Service Center.
3. Even within a period of warranty, the warranty shall not apply to any defect, failure or damage caused by improper use. The expenses will be charged to customer.
4. Since this document can not be reissued, please keep this.

