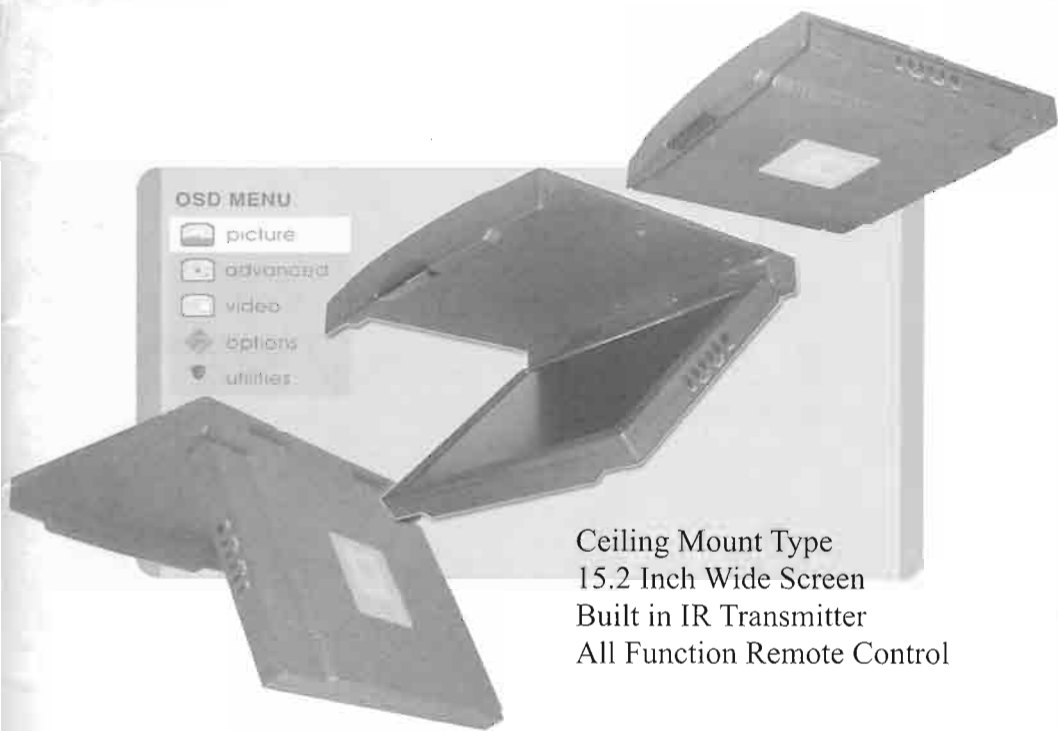


OWNER'S MANUAL

15.2" TFT LCD CEILING MONITOR



Ceiling Mount Type
15.2 Inch Wide Screen
Built in IR Transmitter
All Function Remote Control

Before Use This Unit, Please Read This Manual Carefully.



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PRECAUTIONS



Warning (Important Safeguards)

You must read the following notices carefully before using the product:

- This product should only be installed to the rear of the back of the driver's seat where it will not be visible, directly or indirectly, to the operator of the motor vehicle.
- Don't operate the monitor while driving. It is unlawful in most jurisdictions.
- Don't open or disassemble the product. It may cause electric shock.

Caution

- Don't attempt to service this product yourself. Refer all servicing to qualified service personnel.
- Do not expose extreme hot and humid temperature. (Safe storage environment: -20 <<60 degrees Celsius and <90% humidity.
- Do not press the surface of the screen, it may cause a permanent damage.
- Do not spray liquid cleaners or aerosol cleaners directly on the device (including abrasive cleaners, waxes, and solvents.). Wet a cloth with a neutral detergent (e.g. clean water), squeeze it tight and then gently wipe the outer surfaces of the monitor with it.
- Do not compel to flip down by force. It may cause breakage of the product.



FEATURES

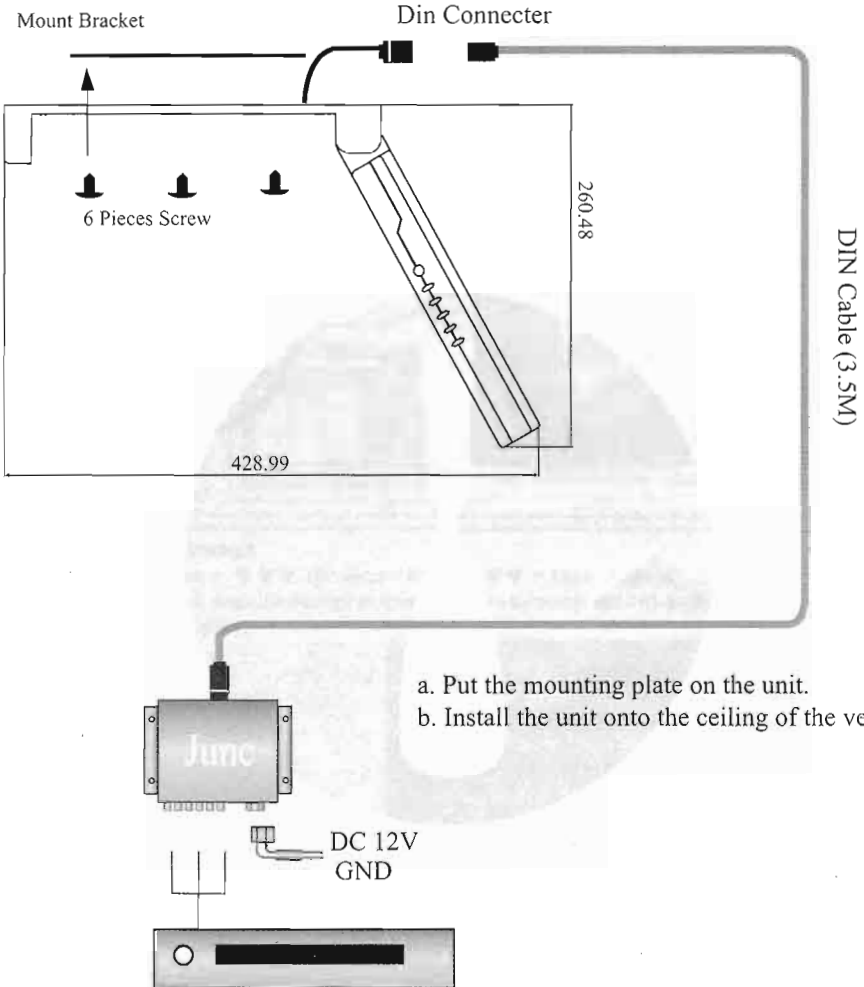
- 15.2 inch TFT LCD
- On screen Display
- Dual AV Input
- Full function Remote Control
- 12V DC Power Input
- Built in IR Transmitter
- Flip down Angle (0- 120Degrees)



PACKING LIST

| | | |
|---|-------------------|------------|
| 1 | TFT LCD Monitor | 1 EA |
| 2 | Remote Controller | 1 EA |
| 3 | Mount Bracket | 1 EA |
| 4 | Screws | 6 PCS |
| 5 | Din Cable | 1 EA(3.5M) |
| 6 | Owner's manual | 1 EA |
| 7 | Battery | 2 EA |
| 8 | Junction Box | 1 EA |
| 9 | 12Volt Power cord | 1 EA |

INSTALL GUIDE

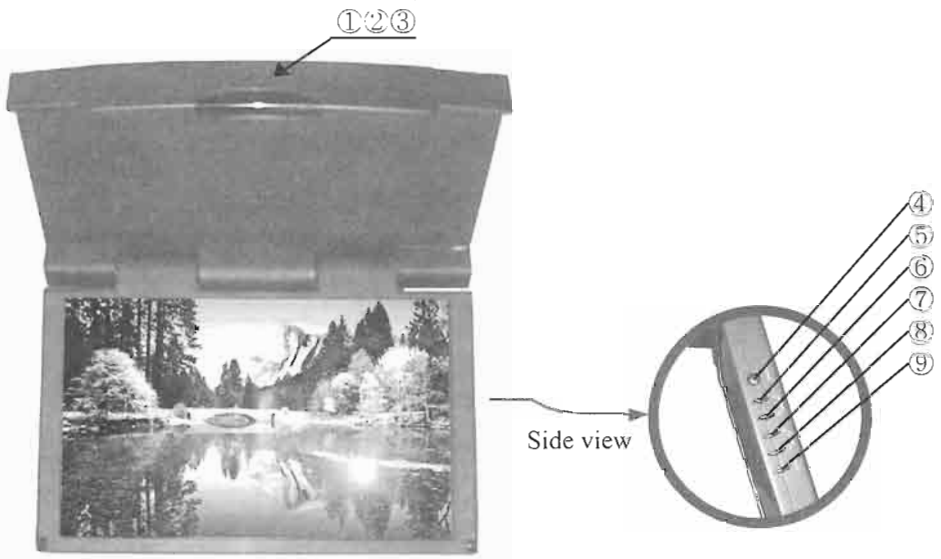


⚠ Cautions

The ceiling case has not to be bent. Otherwise there could be problem in opening and closing the unit.



ILLUSTRATION OF MONITOR



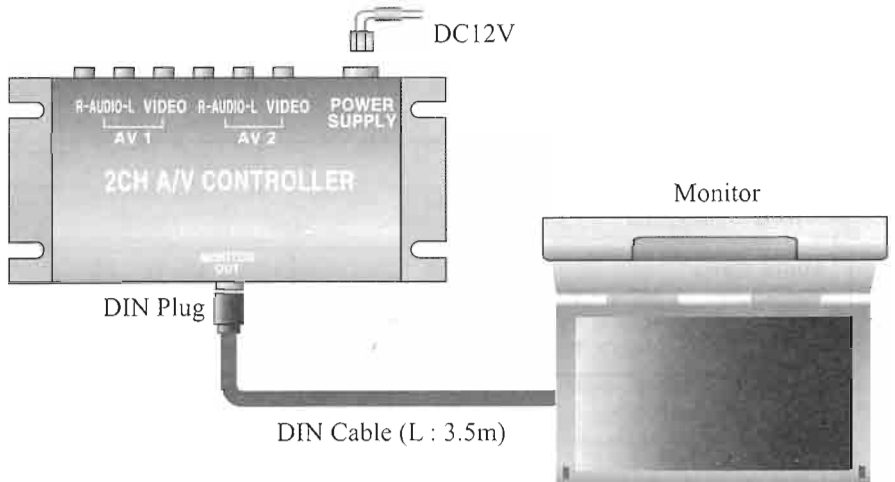
- ① Power LED
- ② IR Sensor for Remote Controller
- ③ IR Transmitter for Headset
- ④ Power : Power On / Off
- ⑤ S/S : Select Video Source
- ⑥ Menu : Activate OSD Menu or save current setting
- ⑦ Down : Move Down Scroll Bar on OSD Menu
- ⑧ Volume - : Volume Down or Decrease the Adjustment
- ⑨ Volume + : Volume Up or Increase the Adjustment

REMOTE CONTROL



- Mute : Sound On/Off
- Power : Power On/Off
- EX : Close the OSD Menu
- S/S : Hot Key for Selecting Video Source
- BRT : Hot Key for Brightness
- MENU : Activate OSD menu or save current setting
- UP(▲) : Move Up Scroll Bar on OSD Menu
- DN(▼) : Move Down Scroll Bar on OSD Menu
- VOL (+) : Volume Up or Increase the Adjustment
- VOL (-) : Volume Down or Decrease the Adjustment

WIRING CONNECTION TO THE JUNCTION BOX



Video Menu

Source
 Audio
 Display
 Scaling
 Control

Exit

- Source : Select signal source.
- Audio : Audio source select and setting.
- Display : Image quality setting.
- Scaling : Expansion control.
- Control : Capture image or OSD control.

SOURCE

Source Select

Precedure Menu > Menu (Video 1 / Video 2)

Video 1

Video 2

Pre-Menu

Exit

AUDIO

Audio Menu

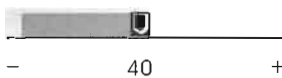
Precedure Menu > ▼ (Audio) > Menu (Bass)
 Menu > ▼ (Audio) > Menu > ▼ > Menu (Treble)
 Menu > ▼ (Audio) > Menu > ▼▼ > Menu (Mute On/Off)

DISPLAY

Brightness

Precedure Menu > ▼▼ (Display) > Menu (Brightness)

Brightness



Pre-Menu
Exit

| | |
|-----------|--------|
| + or Up | Bright |
| - or Down | Dark |

Contrast

Precedure Menu > ▼▼ (Display) > Menu > ▼ > Menu (Contrast)

Contrast



Pre-Menu
Exit

| | |
|-----------|----------|
| + or Up | Distinct |
| - or Down | Vague |

Saturation

Precedure Menu > ▼▼ (Display) > Menu > ▼▼ > Menu (Saturation)

Contrast



Pre-Menu
Exit

| | |
|-----------|-----------|
| + or Up | Reddish |
| - or Down | Decrement |

Saturation means the color tone in accordance with the difference of color concentration under red color criterion.

DISPLAY

Hue

Precedure Menu > ▼▼ (Display) > Menu > ▼▼▼ > Menu (Hue)

Hue



Pre-Menu
Exit

| | |
|-----------|----------|
| + or Up | Greenish |
| - or Down | Bluish |

Hue means that it is a difference fo color toward Bule or Red color direction.

Color Temperature

Precedure Menu > ▼▼ (Display) > Menu > ▼▼▼▼ > Menu (Color Temperature)

Setting 1
Setting 2
Setting 3
Setting 4
Pre-Menu
Exit

Setting 1 : Bluish white
Setting 2 : Default
Setting 3 : Reddish white
Setting 4 : More reddish white

Sharpness

Precedure Menu > ▼▼ (Display) > Menu > ▼▼▼▼▼ > Menu (Sharpness)

Sharpness

Sharp Level 1
Level 2
Level 3
Level 4
Soft Level 5
Pre-Menu
Exit

HOW TO USE OSD MENU

How

SCALING

Fill Screen

Precedure
Function

Menu > ▼▼▼ (Scaling) > Menu > Menu (Fill Screen)
Maximize the image

TV Mode

Precedure

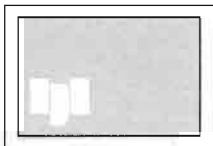
Menu > ▼▼▼ (Scaling) > Menu > ▼ > Menu (TV mode function)

Zoom

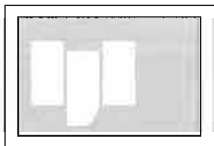
Precedure
Function

Menu > ▼▼▼ (Scaling) > Menu > ▼▼ > Menu (Zoom)
Magnify the image size to X 64

Zoom out



Zoom in



| | |
|-----------|----------|
| + or Up | Zoom in |
| - or Down | Zoom out |

Panning Zoomed Image

Precedure
Function

Menu > ▼▼▼ (Scaling) > Menu > ▼▼ > Menu > Menu
Move magnified image to four directions by using ◀(Left) ▶(Right) ▼(Down)
▲(Up)key

Use the direction key to adjust the display position

↓ Down ↑ Up ← Minus → Plus

CONTROL

Capture Frame

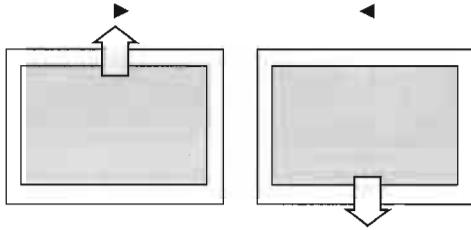
Precedure Menu > ▼▼▼▼ (Control) > Menu > Menu (Capture Frame)
 Function User capture moving picture.

Factory Reset

Precedure Menu > ▼▼▼▼ (Control) > Menu > ▼ > Menu (Factory Reset)
 Function User setting becomes invalid, and return to factory setting.

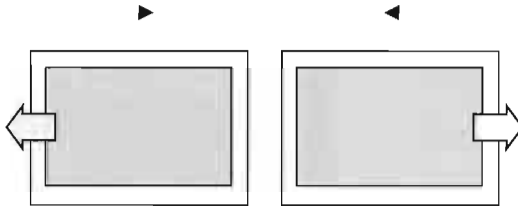
OSD Vertical Position

Precedure Menu > ▼▼▼▼ (Control) > Menu > ▼▼ > Menu (OSD Vertical Position)
 Function Moves the OSD window location (UP & Down)



OSD Horizontal Position

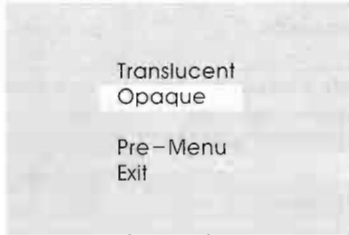
Precedure Menu > ▼▼▼▼ (Control) > Menu > ▼▼▼ > Menu (OSD Horizontal Position)
 Function Moves the OSD window location (Left & Right)



CONTROL

OSD Background Mode

Precedure Menu > ▼▼▼▼ (Control) > Menu > ▼▼▼▼ > Menu (OSD Background Mode)
Function Changes the background color of OSD window.(Translucent / Opaque)



OSD Time Control

Precedure Menu > ▼▼▼▼ (Control) > Menu > ▼▼▼▼▼ > Menu (OSD Time Control)
Function Sets time span before OSD menu disappearance 5~50 seconds.

MEMO



TROUBLESHOOTING

| Symptom | Cause | Possible Solution |
|--------------------------------|---|--|
| No Response To Remote Control. | <ul style="list-style-type: none"> - Batteries in remote control are missing, dead or incorrectly placed. - Improper direction of remote control to the sensor. | <ul style="list-style-type: none"> - Replace batteries. - Point the remote control unit to the sensor. |
| No power to unit | Power supply is not connected or Power connection fuse blown . | Check connections or Replace fuse. |
| No picture & sound | <ul style="list-style-type: none"> - Improper selection of video source. - A/V source connection is wrong. | <ul style="list-style-type: none"> - Switch video source. - Check the A/V source connection. |
| Noise on screen | - Both Video sources are on. | - Turn off one of video source. |



SPECIFICATIONS



| | |
|---------------------------------------|---------------------------|
| Power Supply | DC 12V + 10% |
| Current Consumption (Stand by mode) | 250 mA |
| Current Consumption (With one VCP on) | 2.5 A |
| System | NTSC / PAL / SECAM |
| Operating Temperature | 0 ~ 50°C |
| Storage Temperature | -20 ~ 60°C |
| Display Type | 15.2 Inch TFT LCD Display |
| Resolution | 1152 X 768 X RGB (Dots) |
| Pixel Pitch | 0.279 X 0.279 (mm) |
| Display Colors | 262,144 Colors |
| Brightness | 180 cd/m ² |
| Contrast Ratio | 250 : 1 |
| Demension (H X V X D) | 367 X 303 X 45 (mm) |
| Weight | 2Kg |