

BROADCAST/SURVEILLANCE APPLICATIONS ULE-185U REV.H

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1. SAFETY INSTRUCTION

- Follow this safety instruction to use the monitor properly and prevent the damage.

* This safety instruction has "Warning" & "Caution" as below



Warning - If the user does not follow this instruction, it may cause the serious damage to the user.



Caution - If the user does not follow this instruction, it may cause the slight damage to the user or cause some damages to the monitor.

- Keep this user's guide book for later use.



Warning

Never remove the back cover and touch the inside of the monitor.
If you need a service, please contact the service center.



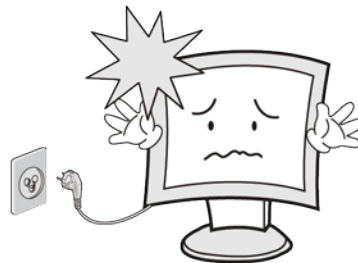
Keep away the monitor from the direct sunlight and a heating appliance.



Never put objects of any kind into this product as they may result in a risk of fire or electric shock.



Connect the power cord to the wall outlet tightly. If the power cord or plug are defective and the wall outlet is not tight, please do not use them.



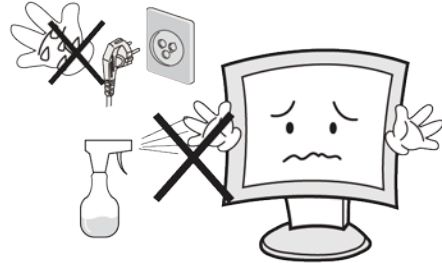


Warning

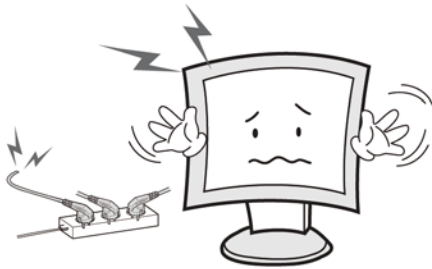
Do not install this monitor on the outside and near water. It may cause damage to the product, electric shock and fire.



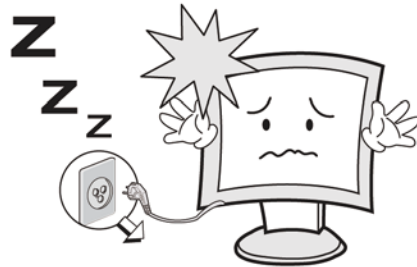
For cleaning do not use liquid cleaners. Never touch the power plug with wet hands.



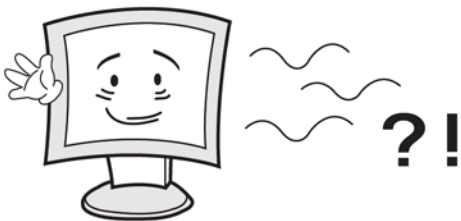
When lightning and thundering, unplug the monitor from the wall outlet and never touch it.



Unplug this product from the wall outlet, when it does not operate for a long time.



When smoking and noising from the monitor, unplug the product from the wall outlet and contact a service center.



WARNING : How to fix

Do not open this product as it contains high voltage inside.

It may create an electric shock.

If the user disassembles and remove the back cover, it does not make sure to make up for the damage and do a service and exchange the monitor.

! Cautions

Install this monitor some distance from the wall and do not install unless proper ventilation is provided.



Place this product on a stable place. If not, it may fall, causing serious damages to the monitor and people.



The openings must not be blocked by curtain, rug or other similar surface.



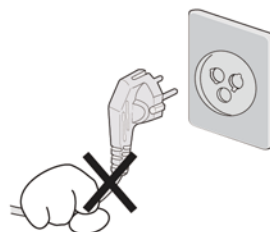
When carrying this monitor, be careful not to damage the panel and drop it. It may cause some trouble.



Before carrying the monitor, turn it off and unplug the signal cables and the power cord from the wall outlet.

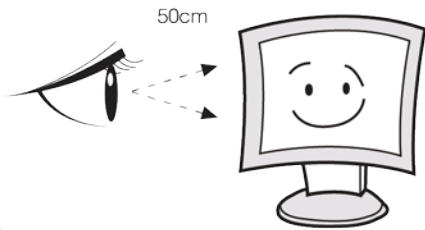


Take the power plug out from the wall outlet. Do not pull the cable. It may snap the inner-wires and cause overheating and fire.



! Cautions

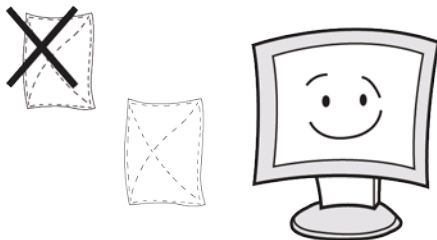
Install this monitor about 50cm far from the eyes and an angle of 0~15 degrees below eyes. Too close installation may cause having weak sight.



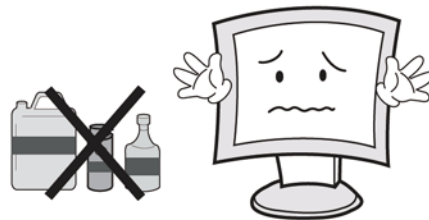
Do not press the LCD panel with hands or the sharpened material hardly.



For cleaning, unplug the monitor from the wall outlet. Do not use the liquid cloth. Use the soft cloth.



Do not use the chemical liquid for cleaning. It may cause fading and breakage.



WARNING: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT EXPOSE THIS EQUIPMENT TO RAIN OR WATER.

Instructions for Disposal of Electrical and Electronic Equipment in Private Households



Disposal of used Electrical and Electronic Equipment
(Applicable in the European Union and other European countries with garbage separate disposal and collection methods)

This symbol on the product, or in the related documents in the package, indicates that this product shall not be treated as normal household waste. Instead, it should be taken to a proper applicable collection point or depot for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent possible 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 authority, your household waste disposal service or the place where you purchased the product.

2. FCC RF INTERFERENCE STATEMENT

NOTE

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio, TV technician for help.
- Only shielded interface cable should be used.

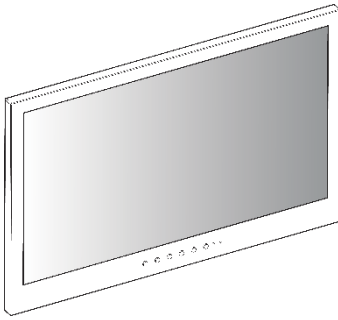
Finally, any changes or modifications to the equipment by the user not expressly approved by the grantee or manufacturer could void the users authority to operate such equipment.

DOC COMPLIANCE NOTICE

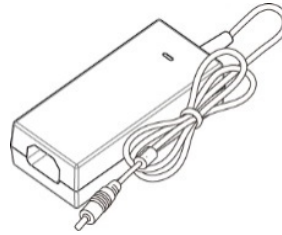
This digital apparatus does not exceed the Class A limits for radio noise emissions from digital apparatus set out in the radio interference regulation of Canadian Department of communications.

3. INSTALLATION

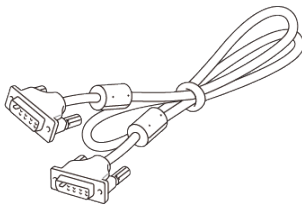
3-1 Parts



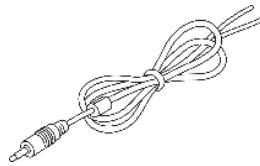
LCD Monitor



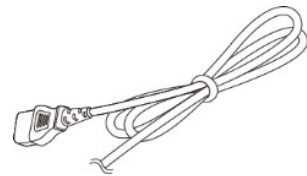
Adapter



VGA Cable



Trigger Cable



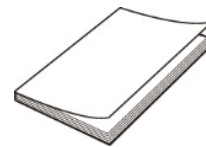
Power Cable



Battery



Remote Controller



User Manual

3-2 How to Install

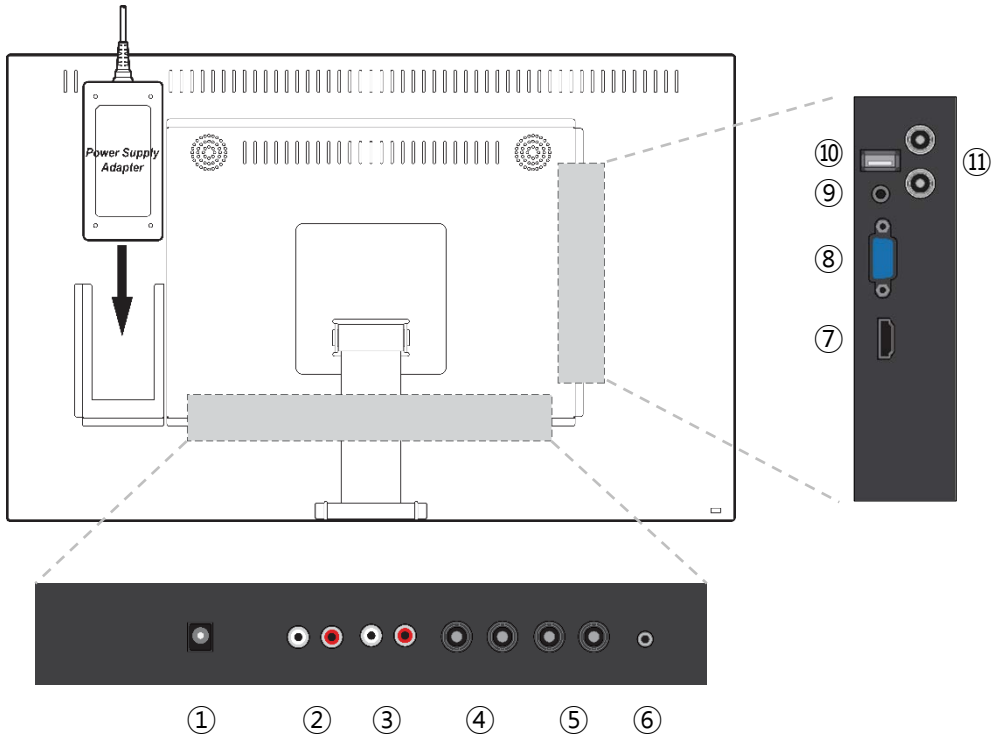
1) KEY BUTTON



SHORT KEY FUNCTION

| OSD Key | Function |
|------------|--|
| MENU | Activate the menu function / Exit from the menu |
| SOURCE / ▼ | Input source menu / Source selection(move down from OSD menu) |
| AUTO / ▲ | Auto-fit screen with PC-RGB input / move up from OSD menu |
| ◀(VOL) | Decrease the level of volume and move the previous menu |
| (VOL)▶ | Increase the level of volume and select the OSD menu |
| | Power On / Off |
| LED | Red : Power Off state Green : Power On and available input signal state Orange : When DPMS "ON" state, no input signal |
| ▲ + ◀ | Press "▲ , ◀" Key 10 seconds simultaneously to lock / unlock OSD Key |

2) CONNECTION



| | | |
|---|----------------|--------------------------------|
| ① | DC 12V | DC adapter input |
| ② | AUDIO(VIDEO-1) | Stereo audio input for VIDEO-1 |
| ③ | AUDIO(VIDEO-2) | Stereo audio input for VIDEO-2 |
| ④ | VIDEO-1 IN/OUT | VIDEO-1 signal input/output |
| ⑤ | VIDEO-2 IN/OUT | VIDEO-2 signal input/output |
| ⑥ | TRIGGER | TRIGGER signal input |
| ⑦ | HDMI | HDMI signal input |
| ⑧ | VGA | VGA(PC RGB) signal input |
| ⑨ | AUDIO(PC) | Stereo audio input for VGA |
| ⑩ | For FW Update | |
| ⑪ | SDI IN/OUT | SDI signal input/looping out |

3) REMOTE CONTROLLER





| | |
|--------------|------------------------------------|
| POWER | Power On or Off |
| MUTE | Turn on or off the speaker |
| VIDEO1/CVBS1 | Not functional |
| VIDEO2/CVBS2 | Not functional |
| BRIGHTNESS | Not functional |
| VGA | Select VGA signal |
| AUTO | Auto adjustment of VGA source |
| COLOR TEMP | Select color temperature of screen |
| DVI | Select DVI signal |
| HDMI | Select HDMI signal |
| DP | Select DP signal |
| HDM12/CAMERA | Not functional |
| SDI | Select SDI signal(Not functional) |
| S.SET | Not functional |
| SCAN MODE | Select scan mode of screen |
| PIP | Activate PIP mode |
| VOL-/VOL+ | Adjust volume |
| MENU/EXIT | Activate or exit of OSD menu |
| KEYLOCK | Look of release the OSD control |
| P.INPUT | Select an input source for PIP |
| P.LOC | Select a location for PIP |
| P.SIZE | Select a screen size of PIP |
| P.SWAP | Swap between Main / Sub screen |
| STILL | Not functional |
| ROTATE | Select Rotation for OSD menu |

4. OSD MENU SETTING

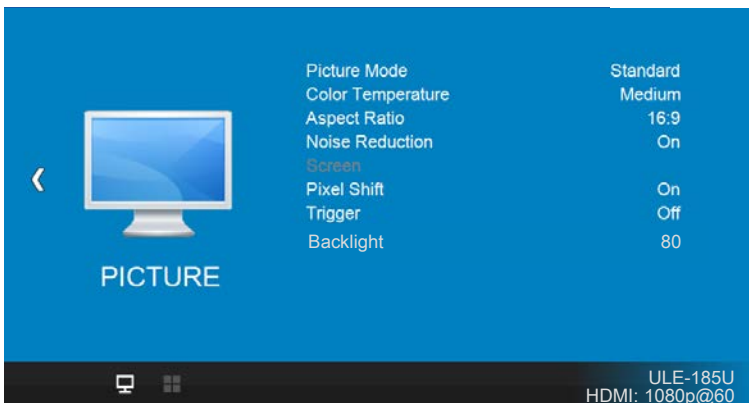
MENU STRUCTURE

When user presses the menu key, the first "PICTURE" menu is displayed. Select by "◀" key then two types of menu functions are shown as below.

-  PICTURE : Menu related to PICTURE Function
-  OPTION : Other OSD Menu Status Control and Firmware Update

If press "◀, ▶" key, then select sub title in functions.

PICTURE MENU

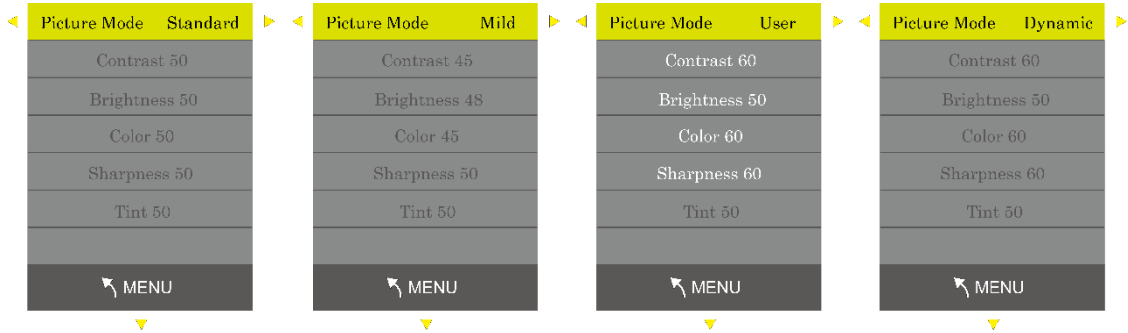


The PICTURE Menu can be selected from the following 7 modes by pressing the ▲ or ▼ key.

| | |
|-------------------|--|
| Picture Mode | Adjust setting of the picture |
| Color Temperature | Change color according to the color temperature |
| Aspect Ratio | Change the aspect ratio |
| Noise Reduction | Adjust noise attenuation of input signal |
| Screen | Adjust the PC-RGB input signal to fit the screen |
| Trigger | Select Trigger input |
| Pixel shift | Select auto pixel shift |

1) Picture Mode

Picture Mode can select 4 modes as Mild, Dynamic, Standard and User as shown in the figure below. Press the "◀, ▶" key to change the mode.



Three of the four modes except for User mode are shipped with fixed values at the time of shipment from the factory.

User mode can be set with "◀, ▶" keys by selecting each item below with "▲, ▼" key only in the User mode.

| | |
|------------|---|
| Contrast | Adjust difference in the color and brightness |
| Brightness | Adjust the dark and light |
| Color | Adjust for desired color intensity |
| Sharpness | Adjust for best clarity of outline detail |
| Tint | Adjust for natural flesh tones |

2) Color Temperature

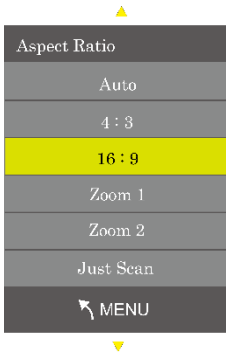
Color Temperature can select 4 modes as Cool, Medium, Warm and User as shown in the figure below.



Three modes except User mode are factory shipped with factory default values, and each color item (RED, GREEN, BLUE) is selected with the "▲, ▼" keys in the User mode only. User settings are available.

3) Aspect Ratio

Aspect Ratio allows user to select the each aspect ratio as shown in the figure below. (However, activated list is according to the input port and the input resolution.)



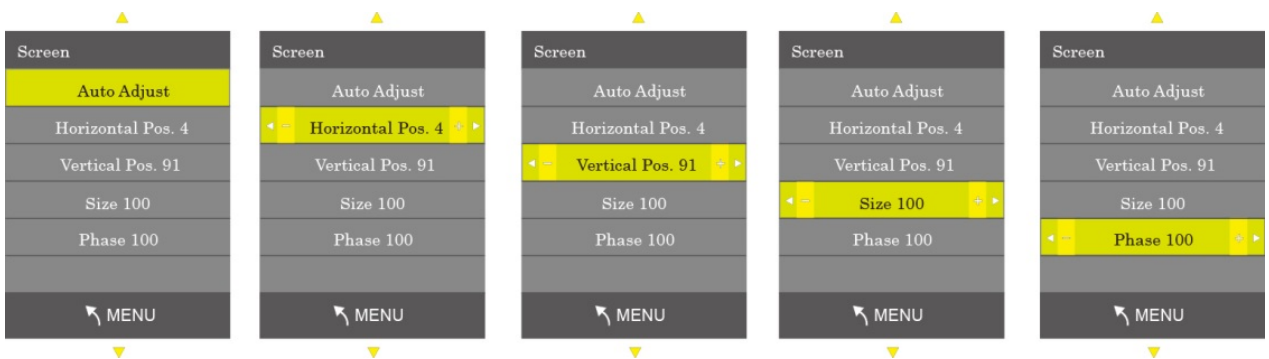
4) Noise Reduction

Noise Reduction can select 5 modes as Off, Low, Middle, High, Default as shown in the figure below.



5) Screen

Screen enables to set the active area of the display when using PC-RGB input port.



Auto Adjust is an item to be set automatically, and the input signal should be operated in the signal state where the Outline has a lot of white color.

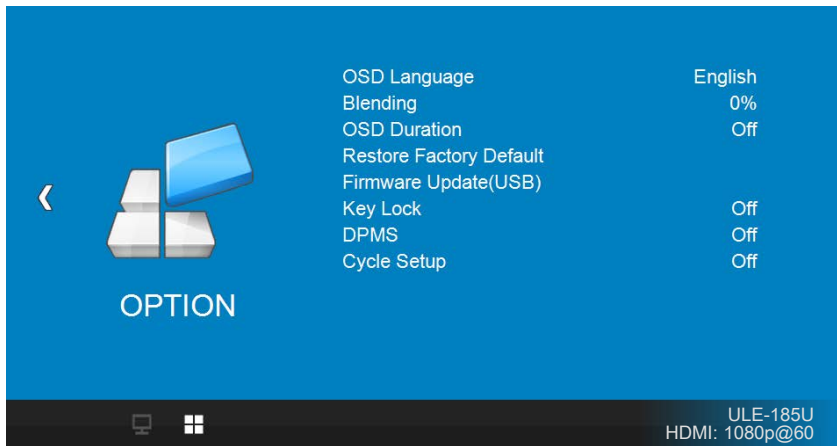
6) Trigger

Select Trigger input (Off, VIDEO 1, VIDEO 2)

7) Pixel shift

Select auto pixel shift (On, Off)

OPTION MENU



The Option Menu can be selected from the following 8 modes by pressing the ▲ or ▼ key.

| | |
|-------------------------|---|
| OSD Language | Selectable OSD Menu Language |
| Blending | Adjust blending for OSD Menu and Main window |
| OSD Duration | Setting Duration time of OSD Menu |
| Restore Factory Default | |
| Software Update(USB) | |
| Key Lock | Locking the button(prevent operation) |
| DPMS | When input signal is the no signal, DPMS "on" change the power saving mode. |
| Cycle setup | Select auto input source |

1) OSD Language

As shown in the figure below, OSD Language can be selected by "▲, ▼" key.



2) Blending

OSD Menu Blending can select 4 modes as Off, Low, Middle, High by pressing the "▶ SELECT" key.

3) OsdDuration

OSD menu Duration can select 4 modes as 5, 10, 15Sec and Off by pressing the "▶ SELECT" key.

4) Restore Factory Default

Restore factory default can be selected by pressing the "▶ SELECT" key. Select Yes or No by the "◀, ▶" key.



5) Firmware Update(USB)

Software update default can be selected by pressing the "Menu" key. Select Yes or No by the "◀, ▶" key.



6) Key Lock

Key lock default can be selected by pressing the "▶ SELECT" key.



7) DPMS

The function can be activated(ON) or deactivated(OFF) with the button ▶.

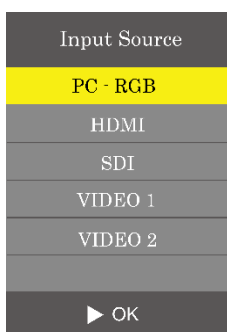
8) Cycle setup

Select auto pixel shift with the button ▶.

INPUT SOURCE

Input Source can be selected from the following four input modes by using the ▲ and ▼ keys when the window as shown below is displayed by pressing the "SOURCE / ▼" key in the Main window.

(Input Source can be selected by ▲ and ▼ key when window shown as below. To be in this menu, pressing the "ENTER" / ▶" key in the Main window.)



AUDIO VOLUME

Audio Volume can be increased or decreased by pressing "VOL- / ◀", "VOL + / ▶" Key.



5. FEATURE

| General Features | | ULE-185U REV.H |
|-----------------------|--------------------------------|--------------------------|
| Display | Screen Size | 18.5 inches |
| | Resolution | 1366*768 |
| | Pixel Pitch | 0.300*0.300 mm |
| | Brightness | 250 cd/m ² |
| | Contrast Ratio | 1000:1 |
| | Aspect Ratio | 16:9 |
| | Viewing Angle (H/V) | 170/170 degrees |
| | Display Color | 16.7 million |
| | Response Time | 14 ms |
| | Video System | NTSC/PAL |
| | Panel Life Time (hours) | 30,000 hours |
| Interface | Video In/Out (BNC Type) | 2/2 |
| | VGA In (15Pin D-Sub) | 1 |
| | HDMI In | 1 |
| | SDI In/Out | 1/1 |
| | Audio In(RCA Type) | 2 |
| | PC Stereo In | 1 |
| | Trigger In | 1 |
| Special Features | Built in Speakers | Y (1W*2) |
| | Remote Control | Y |
| | Filter Type | 3D Comb filter |
| | Deinterlacing | Y |
| | Trigger Source Switching | Y |
| | Noise reduction | Y |
| | Auto source sequencing | Y |
| Multilingual Language | Eng, Spa, Fre, Ger, Ita | |
| Dimension | Outline Dimension (with Stand) | 17.64" x 11.72" x 3.58" |
| Cabinet | Cabinet Material | Electro-Galvanized Steel |
| Power | Electrical Ratings | DC 12V |
| Circumstance | Operating Temperature | 0~50 Celsius |
| | Storage Temperature | -20~60 Celsius |
| Mounts | VESA Mount Size | 100x100 mm |
| | Ceiling Mount | CMK-01 |
| | Wall Mount | WB-5, 10, 30, 31 |
| | Rack Mount | RMK-08 |

6. TROUBLESHOOTING

* When the following troubles are occurred, follow the trouble shooting.

Before contacting service center.

| Troubleshooting | Troubleshooting Tip |
|---|---|
| The screen doesn't show up | <ol style="list-style-type: none"> 1. Make sure if the power supply is connected property 2. Turn on the power. 3. Select the input signal right for the connected port. |
| The screen is too light or to dark | Control the BRIGHTNESS |
| The screen size is not fit for the PC signal | Press the AUTO key among keys in the front. (It is used only in the PC signal) |
| The screen color shows strange in the PC signal | In the FUNCTION menu of OSD menu, perform the AUTOADJUST. |
| The key pad does not work | Press ▲ and ◀ button on the key pad for 10 seconds. |

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