65" LED DISPLAY
65インチ LEDディスプレイ
65” LED 디스플레이
СД-ТЕЛЕВИЗОР С ДИАГОНАЛЬЮ 65"
MONITOR LED 65”
65 型 LED 顯示器
65 型 LED 显示器
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Special Notices
Certain programs may be copyrighted and unauthorized recording in whole or in part may be in violation of copyright laws in the U.S. and Canada.
FCC/CSA regulations state that any unauthorized modifications to this display may void user authority to operate it.

Warning & Precautions
- Read and keep these instructions.
- Follow all instructions.
-heed all warnings.
- The unit should be operated from the type of power source indicated on the label. If the type of available power is unknown, consult your dealer or local power company.
- Do not use this apparatus near water.
- Clean with damp cloth or cleaner approved for cleaning LCD screen.
- Do not block any ventilation openings. Install in accordance with the manufacturer’s instruction.
- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type. A polarized plug has two blades with one wider than other. A grounding type plug has two blades and third grounding prong. The wide blade or the third prong are provided for you safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- When a wall mount bracket is used, ensure the display is sufficiently tightened to the wall mount to avoid injury from tip-over.
- Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged; liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture; does not operate normally; or has been dropped.
- Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
- Do not hit this panel. Be careful to prevent from getting hurt by broken glass pieces in case the panel breaks.
- Be sure to install the display unit according to the installation instruction recommended by the manufacturer.
- Upon completion of service or maintenance, request the service technician to perform safety check to ensure that the display unit isinproperoperatingcondition .
- This display unit onlyoperateswithinthetemperature 0°C to 40°C. Operationoutsideoftherecommendation may cause damage toyourproduct .
- Use only handles on back of monitor for lifting. Monitors require two people to lift.
Important Safety Instructions

Disconnect from the electric outlet before cleaning. Do not use liquid or aerosol cleaners. Use only a slightly damp cloth or cleaner approved for cleaning LCD screen.

Cleaning & Maintenance

Disconnect from the electric outlet before cleaning. Do not use liquid or aerosol cleaners. Use only a slightly damp cloth or cleaner approved for cleaning LCD screen.

Regulatory Notice

CE Statement
The CE label on this product indicates that it complies with the 89/336/EEC directive on electromagnetic compatibility and safety rules as defined in the 2006/95/EC, low voltage directives and the 2009/125/EC Eco-design directive for Energy-using products. This product is protected against interferences from other electronic devices, provided that these devices comply with the standards in force. Sporadic interferences may happen nevertheless.

FCC Statement
The Federal Communications Commission Radio Frequency Interference Statement includes the following warning:
This equipment has been tested and found to comply with the limits for a Class B 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.
The 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 receptions, 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/display technician for help.
Important Safety Instructions

Warning
User must use shielded signal interface cables to maintain FCC compliance for the product. Provided with this display is a detachable power supply cord with IEC320 style terminations. It may be suitable for connection to any UL listed personal computer with similar configuration. Before making the connection, make sure the voltage rating of the computer convenience outlet is the same as the monitor and that the ampere rating of the computer convenience outlet is equal to or exceeds the monitor voltage rating. For 120 Volt supplications, use only UL listed detachable power cord with NEMA configuration 5-15P type (parallel blades) plug cap. For 240 Volt applications use only UL listed detachable power supply cord with NEMA configuration 6015p type (tandem blades) plug cap.

IC Compliance Notice
This Class B digital apparatus meets all requirements of the Canadian interference-Causing Equipment Regulations of ICES-003.

ROHS Compliance Statement
This display defined in this owner manual is 100% ROHS compliant and meets all the requirements set forth in European Union Directive 2011/65/EU, Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment.

Information on Disposal for Your Old Product
Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment. When this crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2002/96/EC. If you wish to discard of this product, please contact your local authorities and ask the correct method of disposal. The correct disposal of your old product will help to prevent potential negative consequences for the environment and human health.

Attention: If you want to dispose of this equipment, please do not use the ordinary dust bin!
Checking the Accessories Supplied

- LCD Display
- User's Manual
- Remote Controller & Batteries
- Sponge
- Clips & Screws
- IR Receiver & Cable Clips

Keypad Controls

1. Status LED
   Red-Standby
   The LED will illuminate in orange color if the display is at standby mode and the main power cord is plugged into the back of the unit.
   Solid Green-Power on

2. Power(Standby) Button
   Turns power on from standby mode. There is a wait period between on/standby cycles.

3. Adjustment Buttons
   These keys serve as navigation and adjustment keys when On Screen Display menu is engaged.

4. Select Buttons
   Use these buttons to navigate through the On Screen Display menu.

5. Menu Button
   Use this button to engage the On Screen Display menu.

6. Input Button
   Use this button to switch between available inputs.

Battery Installation

1. Insert battery into handle
2. Secure battery with screws
3. Place battery handle on remote controller

Overview
### Rear Panel Connections

| **1.** RS-232 Connector | **4.** RGB Input  
Connect to a computer serial port.  
| **2.** Audio Output | **5.** HDMI 1/HDMI 2 Inputs  
Variable or fixed audio output jacks for connecting to an external audio amplifier.  
| **3.** Component Video Input | **6.** IR Input  
Auto-detecting component video input (Y/Pb/Pr or Y/Cb/Cr) for connecting to the component output of video conferencing system, DVD player or Set-Top Box.  
|  |  
**Note:**  
DVI is also supported through HDMI, using a DVI to HDMI adapter cable.

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*HDMI, the HDMI logo and High-Definition Multimedia Interface are trade marks or registered trademarks of HDMI Licensing LLC

*The USB port is labelled. It is provided for after service/engineer use ONLY.
Remote Control Buttons

1. **Standby Power On/off**
   Push this button to turn on the display from standby mode. Push it again to standby mode.

2. **POLYCOM Mode**
   Push this key to select POLYCOM modes for optimal conference performance.

3. **Number Keypad**
   These keys are not applicable for this display.

4. **Quick View**
   This key is not applicable for this display.

5. **Wide**
   Toggles between various aspect ratio settings.

6. **Menu**
   Engages the On Screen Display menu.

7. **VOL. / ADJ.**
   For adjusting volume function, it is not applicable for this display.
   Use ADJ. keys to scroll through the On Screen Display menu.

8. **SEL.**
   Use SEL. button up or down to navigate through the On Screen Display menu.

9. **EXIT**
   Press Exit button to close the On Screen Display menu screen.

10. **Direct Input Selection Keys**
    Directly change input signal modes.

11. **Input Select**
    Press to select input signal modes sequentially.

Note:

- AV key is not applicable for this display.

12. **Sound Mute On/Off**
    To mute or restore the sound. (Only applicable if optional side mounted or external amplified speaker are connected directly to the display.)

13. **Info.**
    Press to show the status of the display.

14. **Q.Access**
    This key is not applicable for this display.

15. **Sleep**
    Press this key to engage sleep timer selection directly.

16. **Recall**
    Recall default setting.
Using the OSD Menu

The On Screen Display (OSD) menu allows access to setup various parameters equipped with this display.

1. To access the OSD menu, press “MENU” button on the remote control or on the rear cover.

2. Navigation through the OSD menu can be accomplished by using the “Left/Right” or “Up/Down” keys on remote control or rear cover.

Note:

After change settings on the OSD menu, the new settings are confirmed automatically when OSD picture vanish.
Connecting POLYCOM Video Conferencing System

Refer to the Administrator’s Guide included with the POLYCOM video conferencing system for configuring the monitor(s) for optimal performance.

Connecting a DVD

Using Component Video Input

1. Connect the green-colored (labeled as Y) jack from the DVD to the green-colored jack of the display.
2. Connect the red-colored (labeled as P_R/C_R) jack from the DVD to the red-colored P_R/C_R jack of the display.
3. Connect the blue-colored (labeled as P_B/C_B) jack from the DVD to the blue-colored P_B/C_B jack of the display.

Connecting a Set-Top Box

Using HDMI Input

1. Connect the HDMI connector from the back of the Set-Top Box to the HDMI connector located on the back of the display.

Notes:

1. Some Set-Top Boxes may not have a HDMI output. Use Component Video input or RGB input method if this is the case.
2. Upon connecting your Set-Top Box to the HDMI input of the display, it may be necessary to adjust various picture setting on the display or to correctly match the output of the Set-Top Box. This is caused by the different video timing set by various Set-Top Box manufacturers.
3. If the external device has DVI output only, use a DVI to HDMI adapter cable to connect to the HDMI terminal.
Connecting an External Amplifier

1. This display can be connected to an external amplifier using the AUDIO OUT jacks located on the back of the display.

2. Connect the red (R) and white (L) AUDIO OUT jacks from right side of the connector panel to the external amplifier.

Connecting an External Amplified Speaker

1. Connect the red(R) and white(L) audio out sockets located to the right of the connector panel of the set respectively to the right and left amplified speaker.

Connecting a PC

Using RGB or HDMI Video Input

1. For most PCs, connect the 15-pin D-Sub RGB connector from the back of the PC to the RGB-IN Connector located on the back of the display.
Connecting a PC (con’t)

Setting Up Your Display Using Plug and Play

This display adheres to VESA Plug and Play standard to eliminate complicated and time consuming setup of displays. This display identifies itself to the computer and automatically sends the PC its Extended Display Identification Data (EDID) using Display Data Channel (DDC) protocols.

How To Set Up Your Display with PC (Windows)

The display settings for a typical Windows-based computer are shown below; however, actual screens on your computer will differ depending on the version of Windows and video equipped with the computer. Even though the actual screen may look different from example displayed below, basic set-up routine will apply in most cases.

1. Go to Window’s CONTROL PANEL by clicking: START, SETTINGS, CONTROL PANEL. The CONTROL PANEL Window is displayed. Select the DISPLAY icon from this window.

2. The DISPLAY PROPERTIES dialog box is displayed. Select the SETTINGS tab to display your computer’s video output settings.

3. Set the “Screen Resolution” setting to 1920x1080p PIXELS. For COLOR QUALITY, select 30 BIT COLOR (might also be expressed as 1073 million colors).

4. If a vertical-frequency option exists, set the value to 60Hz.

5. Click OK to complete the setting.

Note:

1. Both screen position and size will vary, depending on the type of PC graphics card and its resolution selected.
Connecting a IR Receiver

IR receiver for remote control (suggested position is shown as below)

1. Plug in the IR connector from the back of the display.

2. Use 4 cable clips to fix the cable and IR receiver.

3. Use double-side adhesive tape to paste the IR receiver on the right bottom of front bezel.
# Supported Resolutions

Under HDMI, DVI and RGB modes, this Display supports the following resolutions:

<table>
<thead>
<tr>
<th>Mode No.</th>
<th>Mode</th>
<th>Resolution</th>
<th>H-Frequency (KHz)</th>
<th>V-Frequency (Hz)</th>
<th>Dot rate Polarity (MHz)</th>
<th>V-Sync Polarity (TTL)</th>
<th>H-Sync (TTL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>VGA</td>
<td>640 x 480@60Hz</td>
<td>31.469 +/- 0.5KHz</td>
<td>59.940 +/- 1Hz</td>
<td>25.175</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>DOS</td>
<td>720 x 400@70Hz</td>
<td>31.469 +/- 0.5KHz</td>
<td>70.087 +/- 1Hz</td>
<td>28.320</td>
<td>+</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td>SVGA</td>
<td>800 x 600@60Hz</td>
<td>37.879 +/- 0.5KHz</td>
<td>60.317 +/- 1Hz</td>
<td>40.000</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>4</td>
<td>XGA</td>
<td>1024 x 768@60Hz</td>
<td>48.364 +/- 0.5KHz</td>
<td>60.004 +/- 1Hz</td>
<td>65.000</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>5</td>
<td>SXGA</td>
<td>1280 x 1024@60Hz</td>
<td>63.981 +/- 0.5KHz</td>
<td>60.020 +/- 1Hz</td>
<td>108.000</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>6</td>
<td></td>
<td>1360 x 768@60Hz</td>
<td>47.712 +/- 0.5KHz</td>
<td>60.015 +/- 1Hz</td>
<td>85.500</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>7</td>
<td>*</td>
<td>720 x 480@60Hz</td>
<td>15.734 +/- 0.5KHz</td>
<td>59.940 +/- 1Hz</td>
<td>27.000</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>8</td>
<td>*</td>
<td>720 x 576i@50Hz</td>
<td>15.625 +/- 0.5KHz</td>
<td>50.000 +/- 1Hz</td>
<td>13.500</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>9</td>
<td>*</td>
<td>720 x 480p@60Hz</td>
<td>31.469 +/- 0.5KHz</td>
<td>59.940 +/- 1Hz</td>
<td>27.000</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>10</td>
<td>*</td>
<td>720 x 576p@50Hz</td>
<td>31.250 +/- 0.5KHz</td>
<td>50.000 +/- 1Hz</td>
<td>27.000</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>11</td>
<td></td>
<td>1280 x 720p@60Hz</td>
<td>45.000 +/- 0.5KHz</td>
<td>60.000 +/- 1Hz</td>
<td>74.250</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>12</td>
<td></td>
<td>1280 x 720p@59Hz</td>
<td>44.955 +/- 0.5KHz</td>
<td>59.940 +/- 1Hz</td>
<td>74.176</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>13</td>
<td></td>
<td>1280 x 720p@50Hz</td>
<td>37.500 +/- 0.5KHz</td>
<td>50.000 +/- 1Hz</td>
<td>74.250</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>14</td>
<td></td>
<td>1920 x 1080i@60Hz</td>
<td>33.750 +/- 0.5KHz</td>
<td>60.000 +/- 1Hz</td>
<td>74.250</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>15</td>
<td></td>
<td>1920 x 1080i@59Hz</td>
<td>33.716 +/- 0.5KHz</td>
<td>59.940 +/- 1Hz</td>
<td>74.176</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>16</td>
<td></td>
<td>1920 x 1080i@50Hz</td>
<td>28.125 +/- 0.5KHz</td>
<td>50.000 +/- 1Hz</td>
<td>74.250</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>17</td>
<td></td>
<td>1920 x 1080p@24Hz</td>
<td>27.000 +/- 0.5KHz</td>
<td>24.000 +/- 1Hz</td>
<td>74.250</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>18</td>
<td></td>
<td>1920 x 1080p@25Hz</td>
<td>28.125 +/- 0.5KHz</td>
<td>25.000 +/- 1Hz</td>
<td>74.250</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>19</td>
<td></td>
<td>1920 x 1080p@30Hz</td>
<td>33.750 +/- 0.5KHz</td>
<td>30.000 +/- 1Hz</td>
<td>74.250</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>20</td>
<td></td>
<td>1920 x 1080p@50Hz</td>
<td>56.250 +/- 0.5KHz</td>
<td>50.000 +/- 1Hz</td>
<td>148.500</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>21</td>
<td></td>
<td>1920 x 1080p@59Hz</td>
<td>67.433 +/- 0.5KHz</td>
<td>59.940 +/- 1Hz</td>
<td>148.352</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>22</td>
<td></td>
<td>1920 x 1080p@60Hz</td>
<td>67.500 +/- 0.5KHz</td>
<td>60.000 +/- 1Hz</td>
<td>148.500</td>
<td>+</td>
<td>+</td>
</tr>
</tbody>
</table>

**Note:**

1. This display does not support Macintosh resolution.
2. **“*”:** not available for RGB Mode.
Picture Adjustment

1. Press the “Menu” button on the rear cover or remote control and “Down” key to enter PICTURE menu.

2. Various picture settings are available from the Picture menu. Use “Left/Right” keys to adjust that you wish and press “Exit” key to confirm select.

Explanation of Various Picture Control Settings

- **PICTURE MODE**
  There are four preset picture modes that you can choose from to optimize the video picture according to the type of programming you are watching. (1)POLYCOM (2)CUSTOM (3)MILD (4)VIVID.

  **Note:**
  Note that the default Picture Mode setting is set to “POLYCOM”. This setting is standard mode, which is optimized (and recommended) for use with POLYCOM Video conferencing system for all video inputs. As such, many of the adjustment sub-settings are “grayed-out” and are not accessible to the user. In order to make adjustments to these settings, “CUSTOM” picture mode must be selected.

- **CONTRAST**
  Adjust Contrast to increase the level of “White” in the video picture. Increasing Contrast will make white area of the video picture brighter. Contrast works in conjunction with Brightness.

- **BRIGHTNESS**
  Adjust Brightness to enhance the level of dark area in the video picture such as night scenes and shadow scenes. Increasing brightness will make dark areas more visible.

- **COLOR**
  Use color to adjust the color saturation of the picture. Increasing color will make the color more intense. Reducing color setting will make the color less intense.

- **SHARPNESS**
  Use sharpness to adjust the amount of detail enhancement to the video picture. Increase the setting will enhance the edges of objects in the video picture. Decreasing the setting will reduce enhancement.

- **TINT**
  Use Tint to adjust the color of flesh tones. Increasing color will make the picture with more red in appearance. Decreasing setting in left direction will shift the picture with more green in appearance.

- **3D NR/MPEG NR**
  To improve the quality of the picture in the case of poor reception.
**Explanation of Various Picture Control Settings (con’t)**

- **H-POSITION**
  Use to change horizontal position of the picture. Increase to shift the picture to the right. Decrease to shift the picture to the left.

- **V-POSITION**
  Use to change vertical position of the picture. Increase to shift the picture up. Decrease to shift the picture down.

- **FORMAT**
  Use to change various screen width modes. There are two modes to choose from: (1) 16:9 (2) 4:3.

- **AUTO ADJUST**
  Use AUTO ADJUST to fine-tune the display to perfectly synchronize to the video signal source under RGB mode.

- **COLOR TEMP.**
  Select the COLOR TEMP. for white balance. There are three setting to choose from: (1) Natural (2) WARM (3) COOL.

- **CLOCK**
  Use clock to fine-tune the monitor to perfectly ADC PLL divider clock ratio synchronize to the video signal source under RGB mode.

- **PHASE**
  Use phase to fine-tune the monitor to perfectly ADC clock phase synchronize to the video signal source under RGB mode.

**Fine Tuning Under RGB Mode**

**Picture Quality Adjustment**
Due to various PC video cards with different specifications, it is likely that the initial video picture has subtle noise or imperfections. Please use the following procedures to adjust the picture quality when using under RGB mode.

1. Press “Menu” key on the rear cover or remote control.
2. Use “Down” key to enter Picture option from the menu.
3. Use “Up/Down” keys to select AUTO ADJUST option from the menu.
4. Use “Left/Right” keys to change the setting till your video picture is optimal.

**Picture Quality Adjustment-Manual-Manual Adjustment**
In certain special cases, users may desire to manually adjust. To do so, please follow below procedure. Due to various PC video cards with different specifications, it is likely that the initial video picture may not fit exactly to the size of the display. Please use the following procedures to adjust the picture position.

1. Press “Menu” key on rear cover or remote control.
2. Use “Down” key to enter PICTURE option from the menu.
3. Use “Up/Down” keys to select H-Position or V-Position from the menu and press keys to confirm selection.
4. Use “Left/Right” keys to change the setting till your video picture is best fit within the display area of display.
Understanding Widescreen Modes

This display is capable of displaying a wide-screen image on the native 16:9 aspect ratio screen. However, not all available video content fits perfectly in a wide-screen (16:9) format resulting in unused screen space. This display is capable of displaying images in various formats that is suitable for various types of content depending on its size.

For 4:3 (Square) Content

Content from traditional TV, VCR and some DVD’s are formatted using a “square” 4:3 format. When viewing content in this “Square” format, the following viewing modes are suitable.

16:9 (WIDE)
The original 4:3 image is proportionally stretched to fill the entire screen. This is the default setting from factory.

4:3 (NORMAL)
In 4:3 mode, the original 4:3 image is preserved but black bar are used to fill the extra space on the left and right.

Setup Adjustment

1. Press the “Menu” key on the rear of cover or remote control. Use “Left/Right” keys to select the SETUP Option from the menu.

2. Use “Up/Down” keys to select the option that you wish to adjust.

3. Use “Left/Right” keys to change the setting. After achieving desired setting, press “Exit” key to close the OSD.

4. The S/W Version is only for reference. The actual version will be shown on the display OSD.

Explanation of Various Setup Settings

SLEEP TIMER
After user selects the sleep time option, the display will automatically shut-off without user intervention.

POWER SAVE
When there are no signals detected by the display, the display will automatically go into sleep mode until signal is restored. Power save mode /feature works with HDMI/ RGB and Component input options.
Explanation of Various Setup Settings

- **Auto Power Down**
  When Auto Power Down is turned “ON”, the display shall automatically switch from ON mode to full standby mode following 4 hours of inactivity (inactivity is defined as having no user interaction/activation of the display control buttons or remote control for a period of 4 hours). Once in full standby mode, to bring the panel back into operation the user must activate any of the control buttons on the panel or use the remote control that is included with the display (e.g. **not** the video conferencing system remote) in order to reactivate the display.

Note that the default setting for Auto Power Down is “ON”, in compliance with EU REGULATION (EC) No 642/2009. However, it is recognized that for video conferencing applications, the display often requires the ability to sense incoming video; and if the display has entered the power down state, presence of video will not activate the display. Should Auto Power Down cause inconvenience, it is suggested that this feature be disabled and set to ‘OFF’. This will ensure that the panel will automatically come out of power save mode upon receiving an active video signal from the conferencing system, and requires no further user interaction to reactivate the display panel.
## Troubleshooting

The following table lists possible problems and methods for remedy. Please refer to this table prior to contacting a service representative.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible Cause</th>
<th>Remedy</th>
</tr>
</thead>
<tbody>
<tr>
<td>No picture is displayed.</td>
<td>1. The power cord is disconnected.</td>
<td>1. Plug in the power cord.</td>
</tr>
<tr>
<td></td>
<td>2. The selected input has no connection.</td>
<td>2. Connect the selected device to the display.</td>
</tr>
<tr>
<td></td>
<td>3. The display is in standby mode in RGB mode.</td>
<td>3. Press any key on your keyboard.</td>
</tr>
<tr>
<td>Poor picture or poor sound.</td>
<td>1. Electronic appliances, cars, motorcycles or fluorescent lights may be nearby.</td>
<td>1. Move the display to another location to reduce interference.</td>
</tr>
<tr>
<td>Color is abnormal.</td>
<td>1. The signal cable is not connected properly.</td>
<td>1. Make sure that the signal cable is attached firmly to the rear panel of the display.</td>
</tr>
<tr>
<td>Picture is distorted.</td>
<td>1. The signal cable is not connected properly.</td>
<td>1. Make sure that the signal cable is attached firmly.</td>
</tr>
<tr>
<td></td>
<td>2. The input signal is not supported by the display.</td>
<td>2. Check that the video signal source is supported by the display (refer to the specifications section).</td>
</tr>
<tr>
<td>Image doesn’t fill up the full size of the screen.</td>
<td>1. If under VGA mode, the Format settings are incorrectly set.</td>
<td>1. Use the Format options in the PICTURE menu to adjust the size of the picture.</td>
</tr>
<tr>
<td>The remote control buttons do not work.</td>
<td>1. The remote control batteries are flat or incorrectly installed.</td>
<td>1. Change the batteries. Please note that you must then reprogram the remote control.</td>
</tr>
<tr>
<td></td>
<td>2. The position of the selection switch does not correspond to the selected input.</td>
<td>2. Put the selection switch on the correct position.</td>
</tr>
<tr>
<td>Some picture elements do not light up.</td>
<td>1. Some pixels of the display may not turn on.</td>
<td>1. This display was manufactured using an extremely high level of technology; however, sometimes some pixels of the display may not display. This is not a malfunction.</td>
</tr>
<tr>
<td>After-Images can be seen on the display after it has been powered off. (Examples of still pictures include logos, video games, computer images and images displayed in 4:3 format)</td>
<td>1. A still picture was displayed for an extended period of time.</td>
<td>1. Do not allow a still image to be displayed for an extended period of time as this will cause a permanent after-image to remain on the screen.</td>
</tr>
</tbody>
</table>
## Specifications

### Display Panel
- **Screen size**: 65” - 16:9
- **Aspect ratio**: 1920(Horizontal) x 1080p(Vertical) pixels
- **Number of pixels**: 0.744 mm x 0.744 mm
- **Luminance**: 360 cd/m²

### Power Source
- **Input voltage**: 100 ~ 240 Vac, 50/60 Hz
- **Input current**: 2.0 A Max.
- **Power consumption**: 200 Watts Max.
- **Stand-by**: 0.4 Watts Max.

### Connection
- **Connector Types**
  - Video Component RCA in Jack x 1 set
  - Audio L/R Out Jack x 1 set
  - 15 Pin D-Sub for RGB x 1 set
  - 19 Pin HDMI x 2 sets
  - 9 Pin D-Sub for RS-232 x 1 set
  - 3.5Φ Phone Jack for IR Receiver x 1 set

### Y/Cb/Cr or Y/Pb/Pk Signal (Component)
- **Type**: Analog
- **Polarity**: Positive
- **Amplitude**: AV:1Vp-p(with sync), CB/PB:0.7Vp-p, CR/PR:0.7Vp-p
- **Frequency**: H:support to 15K~68KHz V:support 24~60Hz

### RGB Signal
- **Type**: TTL
- **Polarity**: Positive or Negative
- **Amplitude**: RGB:0.7Vp-p
- **Frequency**: H:support to 27K~68KHz V:support to 24~70Hz

### HDMI Signal
- **Type**: Digital
- **Polarity**: Positive or Negative
- **Frequency**: H:support to 15K~68KHz V:support 24~70Hz

### Pin Assignments For D-Sub connector (In/Loop out)

<table>
<thead>
<tr>
<th>Pin</th>
<th>Function</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. RED</td>
<td></td>
</tr>
<tr>
<td>2. GREEN</td>
<td></td>
</tr>
<tr>
<td>3. BLUE</td>
<td></td>
</tr>
<tr>
<td>4. GND</td>
<td></td>
</tr>
<tr>
<td>5. GND</td>
<td></td>
</tr>
<tr>
<td>6. REDGND</td>
<td></td>
</tr>
<tr>
<td>7. GREENGND</td>
<td></td>
</tr>
<tr>
<td>8. BULEGND</td>
<td></td>
</tr>
<tr>
<td>9. 5V</td>
<td></td>
</tr>
<tr>
<td>10. GND</td>
<td></td>
</tr>
<tr>
<td>11. NC</td>
<td></td>
</tr>
<tr>
<td>12. SDA</td>
<td></td>
</tr>
<tr>
<td>13. H-SYNC</td>
<td></td>
</tr>
<tr>
<td>14. V-SYNC</td>
<td></td>
</tr>
<tr>
<td>15 SCL</td>
<td></td>
</tr>
</tbody>
</table>
Specifications

Pin Assignments For 19 Pin HDMI Connector (Digital only)

1. HDMI_RX2+
2. Ground (For +5V)
3. HDMI_RX2-
4. HDMI_RX1+
5. Ground (For +5V)
6. HDMI_RX1-
7. HDMI_RX1+
8. Ground (For +5V)
9. HDMI_RX0-
10. HDMI_RXC+
11. Ground (For +5V)
12. HDMI_RXC-
13. No Connect
14. Connect
15. RX5VDDC SCL
16. RX5VDDC SDAt
17. Ground (For +5V)
18. IN_5V
19. RX_HOTPLUG

Timing For Component

<table>
<thead>
<tr>
<th>Mode No.</th>
<th>Resolution</th>
<th>H-Frequency (KHz) +/- 0.5KHz</th>
<th>V-Frequency (Hz) +/- 1Hz</th>
<th>Dot rate (MHz)</th>
<th>V-Sync Polarity (TTL)</th>
<th>H-Sync Polarity (TTL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>720 x 480i@60Hz</td>
<td>15.734</td>
<td>59.940</td>
<td>27.000</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>2</td>
<td>720 x 576i@50Hz</td>
<td>15.625</td>
<td>50.000</td>
<td>13.500</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>3</td>
<td>720 x 480p@60Hz</td>
<td>31.469</td>
<td>59.940</td>
<td>27.000</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>4</td>
<td>720 x 576p@50Hz</td>
<td>31.250</td>
<td>50.000</td>
<td>27.000</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>5</td>
<td>1280 x 720p@60Hz</td>
<td>45.000</td>
<td>60.000</td>
<td>74.250</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>6</td>
<td>1280 x 720p@59Hz</td>
<td>44.955</td>
<td>59.940</td>
<td>74.176</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>7</td>
<td>1280 x 720p@50Hz</td>
<td>37.500</td>
<td>50.000</td>
<td>74.250</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>8</td>
<td>1920 x 1080i@60Hz</td>
<td>33.750</td>
<td>60.000</td>
<td>74.250</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>9</td>
<td>1920 x 1080i@59Hz</td>
<td>33.716</td>
<td>59.940</td>
<td>74.176</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>10</td>
<td>1920 x 1080i@50Hz</td>
<td>28.125</td>
<td>50.000</td>
<td>74.250</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>11</td>
<td>1920 x 1080p@24Hz</td>
<td>27.000</td>
<td>24.000</td>
<td>74.250</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>12</td>
<td>1920 x 1080p@25Hz</td>
<td>28.125</td>
<td>25.000</td>
<td>74.250</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>13</td>
<td>1920 x 1080p@30Hz</td>
<td>33.750</td>
<td>30.000</td>
<td>74.250</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>14</td>
<td>1920 x 1080p@50Hz</td>
<td>56.250</td>
<td>50.000</td>
<td>148.500</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>15</td>
<td>1920 x 1080p@59Hz</td>
<td>67.433</td>
<td>59.940</td>
<td>148.352</td>
<td>+</td>
<td>+</td>
</tr>
<tr>
<td>16</td>
<td>1920 x 1080p@60Hz</td>
<td>67.500</td>
<td>60.000</td>
<td>148.500</td>
<td>+</td>
<td>+</td>
</tr>
</tbody>
</table>

Note:
1. This display does not support Macintosh resolution.
2. Maximum Resolution  Up to 1920 x 1080p
### Specifications

#### Dimensions & Weight

<table>
<thead>
<tr>
<th>Width</th>
<th>Height</th>
<th>Depth</th>
<th>Net Weight</th>
<th>Gross Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>1512mm</td>
<td>882mm</td>
<td>120mm</td>
<td>62.0Kg</td>
<td>75.5Kg</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>136.7lb</td>
<td>166.5lb</td>
</tr>
</tbody>
</table>

#### Operating

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Relative Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0~40°C</td>
<td>10~90%</td>
</tr>
</tbody>
</table>

#### Non-Operating

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Relative Humidity</th>
</tr>
</thead>
<tbody>
<tr>
<td>-20~60°C</td>
<td>10~90%</td>
</tr>
</tbody>
</table>

#### Acoustics

(IHF A-weight 1 meter) 32dB Max.

#### Sound

Audio Output (only for HDMI) Audio Input +/- 3dB

#### Reliability Requirement

The MTBF is 50,000 hrs. (back light) under operation 25±5°C. (Half luminosity, motion picture)

#### Emission Requirement

The unit shall meet the EMI limits in all screen modes as qualified by CB/CE/UL/FCC/VCCI/CCC/Gost-R/S-Mark/Spring Mark and KC.

#### Power Management

<table>
<thead>
<tr>
<th>Mode</th>
<th>H-sync</th>
<th>V-sync</th>
<th>Video</th>
<th>Power Dissipation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Normal</td>
<td>Pulse</td>
<td>Pulse</td>
<td>Active</td>
<td>Normal power</td>
</tr>
<tr>
<td>Stand-by</td>
<td>No pulse</td>
<td>No pulse</td>
<td>No video</td>
<td>Less than 0.5 Watt</td>
</tr>
<tr>
<td>Power Saving</td>
<td>Pulse</td>
<td>No pulse</td>
<td>B(blanked)</td>
<td>Less than 0.5 Watt</td>
</tr>
<tr>
<td>Power Saving</td>
<td>No pulse</td>
<td>Pulse</td>
<td>B(blanked)</td>
<td>Less than 0.5 Watt</td>
</tr>
</tbody>
</table>

#### Note:

1. The power indicator LED color is green in normal state, red in stand-by and power saving state.
2. This display offers a power management feature that is enabled by default, and that can be used to automatically transition from On Mode to Sleep Mode.
RS-232 Connection

Overview
This monitor is equipped with an RS-232 serial terminal for using the monitor with computer controls. The RS-232 serial terminal conforms to the RS-232 interface specification. The computer will require software application (such as Hyper Terminal) which allows the computer to send and receive control data that can support the communication parameters described in the section.

Interface Parameters
These parameters are required to setup communications with the monitor.

<table>
<thead>
<tr>
<th>Specification</th>
<th>RS-232</th>
<th>RS-232 Pint Layout</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sync Method</td>
<td>Synchronous</td>
<td>Pin 1 Received Line Signal Detector (Data Carrier Detect)</td>
</tr>
<tr>
<td>Baud Rate</td>
<td>9600 bps</td>
<td>Pin 2 Received Data (RXD)</td>
</tr>
<tr>
<td>Parity</td>
<td>None</td>
<td>Pin 3 Transmit Data (TXD)</td>
</tr>
<tr>
<td>Character Length</td>
<td>8 Bits</td>
<td>Pin 4 Data Terminal Ready (DTR)</td>
</tr>
<tr>
<td>Stop Bit</td>
<td>1 Bits</td>
<td>Pin 5 Signal Ground</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pin 6 Data Set Ready (DSR)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pin 7 Request To Send (RTS)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pin 8 Clear To Send (CTS)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Pin 9 Ring Indicator</td>
</tr>
</tbody>
</table>

Command Format and Sequencing

Data Structure Overview
In order to transmit data from the computer to the display, the data must be sent in a structured format. The format used by this display follows a COMMAND:DATA sequence. All commands and its related data are formatted using a 3-character format separated by a colon in-between. For example, the Power On command is sent as: PWR:PON where PWR is telling the display that it is receiving a Power related command, followed by the actual command to carry out.

Communications Overview
As commands are sent from the PC, the display will provide feedback regarding the state of command execution back to the PC. The display provides information status to inform the following:

1. Whether the command sent by the computer was received by the display.
2. Whether the COMMAND : DATA structure was correctly formatted for execution by the display.
3. Whether the command sent was successfully carried out by the display.

The following is an example of the communication process between the PC and the display using a program such as Hyper Terminal.

Example: Read Power Status followed by Power On command and input select to AV with disruption.
Command Format and Sequencing

Communications Overview

Command and Data Tables

<table>
<thead>
<tr>
<th>Description</th>
<th>Command</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Read Data</td>
<td>REA</td>
<td>PWR, BRT, CON, CLR, TNT, SHP, INP, MUT, LNG, TMP, ZOM, FPL, POS, BLK, PLC, VPS, HPS, RCL, INF, PTM, 3DN, MPN</td>
</tr>
<tr>
<td>Power On/Off</td>
<td>PWR</td>
<td>PON=Power On, OFF=Power Off</td>
</tr>
<tr>
<td>Brightness</td>
<td>BRT</td>
<td>001...100</td>
</tr>
<tr>
<td>Contrast</td>
<td>CON</td>
<td>001...100</td>
</tr>
<tr>
<td>Color</td>
<td>CLR</td>
<td>001...100</td>
</tr>
<tr>
<td>Tint</td>
<td>TNT</td>
<td>001...100</td>
</tr>
<tr>
<td>Sharpness</td>
<td>SHP</td>
<td>001...100</td>
</tr>
<tr>
<td>Input Select</td>
<td>INP</td>
<td>CP1=Component, RG1=RGB, HDM=HDMI1, HM2=HDMI2</td>
</tr>
<tr>
<td>V-Position</td>
<td>VPS</td>
<td>001...100</td>
</tr>
<tr>
<td>H-Position</td>
<td>HPS</td>
<td>001...100</td>
</tr>
<tr>
<td>Recall</td>
<td>RCL</td>
<td>000</td>
</tr>
<tr>
<td>Mute</td>
<td>MUT</td>
<td>MON=Mute, OFF=Normal</td>
</tr>
<tr>
<td>Language</td>
<td>LNG</td>
<td>ENG=English, SPA=Spanish, FFR=French, ITA=Italian, DEU=German, SWE=Swedish</td>
</tr>
<tr>
<td>All Black</td>
<td>BLK</td>
<td>BON=All Black, OFF=Return</td>
</tr>
<tr>
<td>Polycom mode</td>
<td>PLC</td>
<td>000</td>
</tr>
<tr>
<td>Aspect Ratio</td>
<td>ZOM</td>
<td>WID=16:9, NOR=4:3 with black bars</td>
</tr>
<tr>
<td>Keypad Lock</td>
<td>FPL</td>
<td>FO1=Lock, OFF=Unlock</td>
</tr>
<tr>
<td>Color Temp</td>
<td>TMP</td>
<td>MID=Natural, HIG=Cool, 65D=Warm</td>
</tr>
<tr>
<td>Display Model Name</td>
<td>DSP</td>
<td>INF (Example: DSP:INF RCV CFM PME65MA)</td>
</tr>
<tr>
<td>Return Model Name</td>
<td>REA</td>
<td>INF (Example: REA:INF RCV CFM PME65MA) CFM</td>
</tr>
<tr>
<td>Power On Source</td>
<td>POS</td>
<td>OFF=Normal (Last Memory) CP1=Component, RG1=RGB, HDM=HDMI1, HM2=HDMI2</td>
</tr>
<tr>
<td>Picture Mode</td>
<td>PTM</td>
<td>CNM=MILD, VVD=VIVID, PLC=POLYCOM, USR=CUSTOM</td>
</tr>
<tr>
<td>3D NR</td>
<td>3DN</td>
<td>OFF=OFF, LOW=LOW, M1D=MIDDLE, HIG=HIGH</td>
</tr>
<tr>
<td>MPEG NR</td>
<td>MPN</td>
<td>OFF=OFF LOW=LOW HIG=HIGH</td>
</tr>
</tbody>
</table>
**Dimensional Drawings**

**Color Scheme**

<table>
<thead>
<tr>
<th>Item</th>
<th>Color Scheme</th>
</tr>
</thead>
<tbody>
<tr>
<td>Outer Front Bezel</td>
<td>Black</td>
</tr>
</tbody>
</table>
Packing Break Out

PME65MA  EXPLoded VIEW (MEchanical parts)

<table>
<thead>
<tr>
<th>ITEM</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PME65MA</td>
<td>SET</td>
<td>1</td>
</tr>
<tr>
<td>2</td>
<td>TL80097Y-</td>
<td>MODEL LABEL</td>
<td>1</td>
</tr>
<tr>
<td>3</td>
<td>TL80142Y1-</td>
<td>SERIAL LABEL</td>
<td>1</td>
</tr>
<tr>
<td>4</td>
<td>TL80203YB-</td>
<td>BAR CODE</td>
<td>1</td>
</tr>
<tr>
<td>5</td>
<td>SAKK0230Y1-</td>
<td>EPE BAG</td>
<td>1</td>
</tr>
<tr>
<td>6</td>
<td>SAKK0992Y1-</td>
<td>STYROFOAM</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>YRC-294POLYCOMC</td>
<td>REMOTE CONTROL</td>
<td>1 ACCESSORY KIT</td>
</tr>
<tr>
<td></td>
<td>RBAT80226Y1DD-</td>
<td>BATTERY</td>
<td>2 ACCESSORY KIT</td>
</tr>
<tr>
<td></td>
<td>TINSE2739Y1-</td>
<td>USER MANUAL</td>
<td>1 ACCESSORY KIT</td>
</tr>
<tr>
<td></td>
<td>SAKK0003Y1L-T-C</td>
<td>DATA BAG</td>
<td>1 ACCESSORY KIT</td>
</tr>
<tr>
<td></td>
<td>PCUS0257Y-</td>
<td>CUSHION</td>
<td>1 ACCESSORY KIT</td>
</tr>
<tr>
<td></td>
<td>LANGE1232Y1P-</td>
<td>ANGLE</td>
<td>2 ACCESSORY KIT</td>
</tr>
<tr>
<td></td>
<td>XPSO2015US0-Y</td>
<td>SCREWS</td>
<td>4 ACCESSORY KIT</td>
</tr>
<tr>
<td></td>
<td>SAKK00027Y1-</td>
<td>ACCESSORY BAG</td>
<td>1 ACCESSORY KIT</td>
</tr>
<tr>
<td></td>
<td>SAKK1015Y1-</td>
<td>BAG</td>
<td>1 ACCESSORY KIT</td>
</tr>
<tr>
<td>7</td>
<td>SAKK0261Y1-</td>
<td>PROTECT CARDBOARD</td>
<td>8</td>
</tr>
<tr>
<td>8</td>
<td>SAKK0916Y1-</td>
<td>CARTON</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>JH0P0020Y-</td>
<td>CASE HANDLE</td>
<td>6</td>
</tr>
<tr>
<td>10</td>
<td>YTAPE0272T045-</td>
<td>TAPE</td>
<td>1</td>
</tr>
<tr>
<td>11</td>
<td>YTE-PBT5Y1600-</td>
<td>WRAPPING</td>
<td>4</td>
</tr>
</tbody>
</table>
Assembly Information

The Assembly of Sponge

The sponge is applied for eliminating the gap when jointing 2 displays with clips. Please paste it on the surface of the side panel as indicated with 5 mm from the edge to the front.

The Assembly of Clips

Please use the clips to joint 2 panels as indicated. The clips can be a little bit tight when apply. Please use the screws to lock up the clips to the display.