Product specification (design and specification subject to change without notice)

### Display Panel
- **Screen Size (Diagonal):** 54.6-inch (1387.8 mm)
- **Panel Type:** IPS / D-LED
- **Effective Display Area (W x H):** 47.6” x 26.7” (1209.6 x 680.4 mm)
- **Number of Pixels (H x V):** 1920 x 1080 pixels
- **Brightness:** 700 cd/㎡ (typ)
- **Contrast Ratio:** 1200:1 (typ)
- **Dynamic Contrast Ratio:** 500000:1
- **Response Time:** 12 ms (G to G) (typ)
- **Viewing Angle (Horizontal / Vertical):** 178° / 178°
- **Panel Life Time:** approx. 60000 hours (typ)*
- **Panel Surface Treatment:** Anti-glare treatment (Haze 44 %)

* When the panel lifetime is at 50 % of the brightness under the condition of 25 degrees Celsius (+/- 2 degrees celsius). Panel lifetime may be shortened due to usage environment.

### Connection Terminal
- **VIDEO IN**
  - BNC x 1, (Shared with Component Y IN)
  - Pin jack x 1 set (Side) (Shared with Component IN)

- **AUDIO IN (L/R)**
  - Pin jack x 1 set (Side) (Shared with VIDEO IN)

- **HDMI IN**
  - HDMI TYPE A Connector x 1

- **Component IN**
  - BNC x 3

- **DVI-D IN**
  - DVI-D 24pin x 2
  - Compliance with DVI Revision 1.0, Compatible with HDCP 1.1

- **AUDIO IN (L/R)**
  - Pin jack x 1 set (Side) (Shared with PC IN)

- **DisplayPort IN**
  - DisplayPort x 1 (Type 1.1 Dual Mode Only)

- **PC IN**
  - Mini D-sub 15pin x1 (Female)
  - R/G/B: 0.7 Vp-p (75 Ω)
  - H/CS/V: TTL (2.2 kΩ)
  - SOG: 1.0 Vp-p (75 Ω)

- **AUDIO IN (L/R)**
  - 3.5 mm Stereo mini jack (M3) x 1 (Shared with DVI-D IN)

- **USB**
  - TYPE A x 1

### Control
- **SERIAL IN / OUT**
  - D-sub 9pin IN x 1 / OUT x 1, RS-232C COMPATIBLE

- **DIGITAL LINK IN / OUT**
  - RJ45 x 1

- **IR IN / OUT**
  - 3.5 mm Stereo mini jack (M3) IN x 1 / OUT x 1

- **CAN**
  - Pin jack x 1 set

### Electrical
- **Power Requirements**
  - 110 - 127 V AC 50/60 Hz
- **Power Consumption**
  - 330 W (340 VA)
- **On Mode Average Power Consumption**
  - 168 W
- **Power off Condition**
  - No Power
- **Stand-by Condition**
  - 0.5 W
- **BTU**
  - Max 11.2 BTU

* Based on IEC 62087 Ed.2 measurement method

### Mechanical
- **Dimensions (W x H x D):** 47.8” x 26.9” x 3.7” (1213 x 684 x 95 mm)
- **Bezel Width**
  - 0.09” (2.25 mm) (left / top), 0.05” (1.25 mm) (right / bottom), 0.14” (3.5 mm) (B to B)
- **Carton Dimensions (W x H x D):** 61.1” x 37.8” x 17.7” (1551 x 961 x 450 mm)
- **Weight**
  - approx. 66.1 lbs. (30 kg)
- **Gross Weight**
  - approx. 99.2 lbs. (45 kg)
- **Cabinet Material / Color**
  - Metal / Black
- **Pitch for Wall-Hanging**
  - VESA Compliant 15.8" x 15.8" (400 x 400 mm) (Installed by: M6 screws / Screw hole depth 0.64" (16.3 mm))

### Installation Requirement
- **Orientation**
  - Landscape / Portrait
- **Tilting Angle**
  - Vertical only

* Please contact your sales representative with regard to the tilt angle before installation.

### Environmental
- **Operating Environment**
  - Temperature: 32 °F to 104 °F (0 °C to 40 °C)
  - Humidity: 10 % to 90 % (Non condensation)
- **Altitude Operating Height**
  - 0 - 6562 ft (0 - 2000 m)
- **Storage Environment**
  - Temperature: 4 °F to 140 °F (-20 °C to 60 °C)
  - Humidity: 10 % to 90 % (Non condensation)

* Depending on the temperature or humidity conditions, uneven brightness may be observed. This is not a malfunction.
  * This unevenness will disappear while applying current continuously. If not, consult the distributor.
**MAIN FEATURE**

- **Daisy Chain**: DIGITAL LINK®, RS-232C, IR
- **Multi Screen**: Yes (N x M, up to 10 x 10)
- **Backup Input**: Yes (2 Backup)
- **1:1 Pixel Mode**: Yes
- **Automatic Picture Position**: Yes
- **Screen Saver**: Yes
- **Wobbling**: Yes
- **ECO Mode**: Yes
- **PC Power Management**: Yes
- **DVIL / HDMI Power Management**: Yes
- **Input Lock**: Yes
- **Button Lock**: Yes
- **Power ON Delay**: Yes
- **Orientation**: Landscape / Portrait
- **MENU Position Control**: Yes
- **Ceiling Suspension**: Yes (Used by Eyebolt. Two-point concurrent use)
- **Operating Time**: 24h / 7d
- **User Memory Function**: Yes
- **Color Calibration**: Done
- **Function Group Setting**: Yes
- **USB Media Player**: Yes
- **ID Auto Setting**: Yes
- **Crestron / AMX Supported**: Yes
- **YFB Series / Extron XTP Supported**: Yes

*1: 8 sets with HDCP, 10 sets without HDCP

*2: In case of running for a long time, the moving image is recommended to be displayed. If you display a still picture for an extended period, the image retention might remain on the screen. However, image retention can gradually disappear by displaying a moving images.

**INCLUDED ACCESSORIES**

- AC power cord (78.74” (2 m))
- Cat5e LAN Cable (78.74” (2 m))
- External IR receiver Cable (59.06” (1.5 m))
- Remote Control
- Wire clamper x 3
- Battery (AAA) x 2
- Operating instruction book
- Warranty Card (Mexico)

**OPTIONAL ACCESSORIES**

- OPTIONAL ACCESSORIES: TY-VK55LV1
  TY-CF55VW50 (Support from 11 / 2014 product)

**STANDARD (CERTIFICATIONS)**

- **Safety Regulations**
  - North America: UL60950-1 2nd Edition
  - UL Certificate of Compliance

- **Radiation Regulations**
  - FCC 47 CFR/PART15 Subpart B Class A 2012

- **Energy Regulation**
  - California Energy Commission for TV

**UPC Code (USA, CANADA only)**

885170183681

**DIMENSIONS**

Cautions: This drawing is not a scale

Units: inches (mm)

**CONNECTION TERMINAL**

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2/3
## INPUT MODE

### PC Resolution:

<table>
<thead>
<tr>
<th>Standard Resolution</th>
<th>Active Resolution</th>
<th>Refresh Rate</th>
<th>Dot Clock</th>
<th>Aspect Ratio</th>
<th>Stand for Mode</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>H Pixels</td>
<td>V Lines</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>VGA</strong></td>
<td>640</td>
<td>480</td>
<td>60 Hz</td>
<td>25.175 MHz</td>
<td>Video Graphic Array</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>72 Hz</td>
<td>31.5 MHz</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>75 Hz</td>
<td>31.5 MHz</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>85 Hz</td>
<td>36 MHz</td>
<td></td>
</tr>
<tr>
<td><strong>SVGA</strong></td>
<td>800</td>
<td>600</td>
<td>56 Hz</td>
<td>36 MHz</td>
<td>Super VGA</td>
</tr>
<tr>
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<td>60 Hz</td>
<td>40 MHz</td>
<td></td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>72 Hz</td>
<td>50 MHz</td>
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<td></td>
<td></td>
<td></td>
<td>75 Hz</td>
<td>49.5 MHz</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>85 Hz</td>
<td>56.25 MHz</td>
<td></td>
</tr>
<tr>
<td><strong>XGA</strong></td>
<td>1024</td>
<td>768</td>
<td>60 Hz</td>
<td>65 MHz</td>
<td>Extended Graphic Array</td>
</tr>
<tr>
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<td></td>
<td></td>
<td>85 Hz</td>
<td>94.5 MHz</td>
<td></td>
</tr>
<tr>
<td><strong>WXGA</strong></td>
<td>1280</td>
<td>768</td>
<td>60 Hz</td>
<td>80.14 MHz</td>
<td>Wide XGA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>83.5 MHz</td>
<td>5:3 Standard</td>
<td></td>
</tr>
<tr>
<td><strong>SXGA</strong></td>
<td>1280</td>
<td>960</td>
<td>60 Hz</td>
<td>108 MHz</td>
<td>Super XGA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>85 Hz</td>
<td>148.5 MHz</td>
<td></td>
</tr>
<tr>
<td><strong>SXGA</strong></td>
<td>1280</td>
<td>1024</td>
<td>60 Hz</td>
<td>108 MHz</td>
<td>Super XGA</td>
</tr>
<tr>
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<td></td>
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<td>85 Hz</td>
<td>157.5 MHz</td>
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<tr>
<td><strong>WXGA</strong></td>
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<td>768</td>
<td>60 Hz</td>
<td>86.71 MHz</td>
<td>Wide XGA</td>
</tr>
<tr>
<td><strong>WXGA+</strong></td>
<td>1440</td>
<td>900</td>
<td>60 Hz</td>
<td>106.5 MHz</td>
<td>Wide XGA+</td>
</tr>
<tr>
<td><strong>UXGA</strong></td>
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<td>1200</td>
<td>60 Hz</td>
<td>162 MHz</td>
<td>Ultra XGA</td>
</tr>
<tr>
<td><strong>HD1080</strong></td>
<td>1920</td>
<td>1080</td>
<td>60 Hz</td>
<td>148.5 MHz</td>
<td>HD1080</td>
</tr>
<tr>
<td><strong>HD720</strong></td>
<td>1280</td>
<td>720</td>
<td>60 Hz</td>
<td>74.5 MHz</td>
<td>HD720</td>
</tr>
</tbody>
</table>

### SDTV Resolution:

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<td>V Lines</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>480i</td>
<td>720</td>
<td>480</td>
<td>29.97 Hz</td>
<td>13.5 MHz</td>
<td>Modified NTSC Standard</td>
</tr>
<tr>
<td>480p</td>
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<td>59.94 Hz</td>
<td>27 MHz</td>
<td></td>
</tr>
<tr>
<td>576i</td>
<td>720</td>
<td>480</td>
<td>25 Hz</td>
<td>13.5 MHz</td>
<td>Modified PAL Standard</td>
</tr>
<tr>
<td>576p</td>
<td></td>
<td></td>
<td>50 Hz</td>
<td>27 MHz</td>
<td></td>
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</table>

### HDTV Resolution:

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<td></td>
</tr>
<tr>
<td>720P</td>
<td>1280</td>
<td>720</td>
<td>50 Hz</td>
<td>74.25 MHz</td>
<td>Normally DVB Mode</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>60 Hz</td>
<td>16:9</td>
<td></td>
</tr>
<tr>
<td>1080i</td>
<td>1920</td>
<td>1080</td>
<td>25 Hz</td>
<td>74.25 MHz</td>
<td>Normally ATSC Mode</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>30 Hz</td>
<td>16:9</td>
<td></td>
</tr>
<tr>
<td>1080p</td>
<td>1920</td>
<td>1080</td>
<td>48 Hz</td>
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<td>24 Hz</td>
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<td>Normally ATSC Mode</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>60 Hz</td>
<td>16:9</td>
<td></td>
</tr>
</tbody>
</table>

- The PC text quality is optimum in HD 1080 mode (1920 x 1080, 60 Hz).
- Your PC display screen might appear different depending on the manufacture (and your particular version of Windows).
- Check your PC instruction book for information about connecting your PC to a monitor.
- The display settings table complies to the IBM / VESA standards, and based on the analog input.
- The DVI support mode is regarded as same to the PC support mode.
- The best timing for the vertical frequency to each mode is 60 Hz.