The Industrial series LED monitor supports 1280 x 1024 resolution. 16.7 million colors achieve high picture quality. Improved energy efficiency and fan-less architecture provides professional-use durability and around-the-clock operation.

It is more than just a standalone monitor. It has a variety of embedded modules including HDMI Decoder, HDMI Extender, HDMI Quad display Extender, Multi-Monitor OSD Controller and SDI Input. The embedded modules give you the ability of video remote management and transmission for multiple monitors over network.

As a versatile 1280 x 1024 monitor, 19 is meticulously designed to meet professional and environmental demands including Sunlight readable brightness, IP65 Front protection, Multi-touch, Anti-reflective/Vandal proof glass, DC power input, Brightness dimming and Mounting kit for Panel-mount, VESA-mount, Universal-mount and Desktop stand.

With over 22 years' production experience, the structure is well-engineered and manufactured by our own CNC facilities and team of experts to ensure its ruggedness, mobility and quality, as well as being suitable for harsh environment applications. The structure can be customized if required to facilitate monitor installation. Our knowledgeable engineers are able to provide frame customization for specific dimensions, color, metal treatment, screen printing, bezel and mounting.
Professional and Versatile 19" LED Monitor

250 cd/m² Brightness

- 6mm aluminum front bezel
- NEMA 4 / IP65 front protection

AP-19

1000 cd/m² Sunlight Readable Brightness

- 6mm aluminum front bezel
- NEMA 4 / IP65 front protection

HAP-19

MP-19
- Industrial Display Kit
  - 4:3 19" LED
  - LCD controller
  - AC power

HAP-19

6mm aluminum front bezel

NAP-19

NHAP-19

Aluminum front cover

DP-19

HDP-19

Universal open frame

OP-19

HOP-19

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Options — Video Management & Transmission over Network

Embedded HDMI Decoder Module 1080p over IP

- Decodes RTSP, RTMP, UDP, HTTP, HLS protocols
- Supports video resolutions up to 1080p / 60Hz
- Unicast and multicast support
- Operates on standard 1000Mb Ethernet networks
- Built-in Web UI for configuration and control
- Excellent image quality with very low delay

Part no.
Embedded HDMI Decoder Module : UV-DE100F
Standalone HDMI Encoder : UV-EN100F

Embedded HDMI Receiver Module 1080p

- Extends the HDMI signal over a single Cat5/6 cable
- Supports video resolutions up to 1080p / 60Hz
- One to one via Cat5/6 cable
- One to multi via network hub and Cat5/6 cable
- 100m maximum Cat5/6 cable distance
- Supports bi-directional IR communication
- High Speed HDMI 1.3 and HDCP 1.1 compliant
- No software or drivers required

Part no.
Embedded HDMI Receiver Module : UV-R100F
Standalone HDMI Transmitter : UV-T100F

Embedded HDMI Quad Display Module 1080p

- Allows 4 x HDMI inputs to be monitored simultaneously
- Quad split, panel left and full screen monitoring modes
- High speed HDMI 1.3a and HDCP 1.2 compliant
- Supports video resolutions up to 1080p / 60Hz
- Supports Scaler Up and Down function
- Control via local front panel and IR remote

Part no.
Embedded HDMI Quad Display Module : QD-1080
Embedded Quad Display Extension Module : QD-E1080
Professional and Versatile 19" LED Monitor

Options — Video Management & Transmission over Network

**Embedded Multi Monitor OSD Control Module over serial**
- Remote control the monitor OSD via RS-232C serial interface
- Daisy chain up to 64 monitors via Cat5/6 cable
- Individual ID for individual monitor OSD settings
- Power ON or OFF monitor
- Adjust brightness & audio
- Switch video sources

Part no.
Embedded Multi Monitor OSD Control Module : MCS

**Embedded 3G / HD / SD-SDI Input Module**
- Intelligent SDI monitoring with broadcast quality scopes
- Supports multi-rate 3G / HD / SD-SDI format
- Provides input to output loop-through capability
- Auto format sensing & selection

Part no.
Embedded 3G / HD / SD-SDI Input Module : SDI

**Embedded Auto Brightness Dimming Module**
- Brightness changes according to its ambient brightness
- Its brightness change causes 10% increase or decrease

Part no.
Embedded Brightness Auto Dimming Module : DA-01

**Embedded Manual Brightness Dimming Knob**
- Easy-to-use IP54 dimming knob on the front panel
- One click causes 2% brightness increase or decrease
- Brightness adjustment from 0% to 100%

Part no.
Brightness Dimming Knob : DS-01
### Option — e-Resistive 1-point Touch

<table>
<thead>
<tr>
<th>Feature</th>
<th>TRB e-Resistive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology</td>
<td>5-Wire Resistive</td>
</tr>
<tr>
<td>Touch Point</td>
<td>Single</td>
</tr>
<tr>
<td>Input Type</td>
<td>Finger or Stylus</td>
</tr>
<tr>
<td>Resolution</td>
<td>2048 x 2048</td>
</tr>
<tr>
<td>Response Speed</td>
<td>15 ms</td>
</tr>
<tr>
<td>Activation Force</td>
<td>≤ 50 g</td>
</tr>
<tr>
<td>Surface Hardness</td>
<td>3H</td>
</tr>
<tr>
<td>Light Transmission</td>
<td>80% ± 3%</td>
</tr>
<tr>
<td>Haze</td>
<td>8% ± 3%</td>
</tr>
<tr>
<td>Durability</td>
<td>10 million touches</td>
</tr>
<tr>
<td>Top Layer</td>
<td>ITO Film</td>
</tr>
<tr>
<td>Bottom Layer</td>
<td>ITO Glass</td>
</tr>
<tr>
<td>Thickness</td>
<td>3.2 ± 0.2 mm</td>
</tr>
<tr>
<td>Connector</td>
<td>USB Type A</td>
</tr>
<tr>
<td>Compatibility</td>
<td>Windows 7 / XP / Linux / Mac</td>
</tr>
</tbody>
</table>

Part no.: 19TRB

** Dimension will be changed if multi-touch required

---

### Option — e-Capacitive 1-point Touch

<table>
<thead>
<tr>
<th>Feature</th>
<th>TCB e-Capacitive</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology</td>
<td>Capacitive</td>
</tr>
<tr>
<td>Touch Point</td>
<td>Single</td>
</tr>
<tr>
<td>Input Type</td>
<td>Finger</td>
</tr>
<tr>
<td>Resolution</td>
<td>2048 x 2048</td>
</tr>
<tr>
<td>Response Speed</td>
<td>20 ms</td>
</tr>
<tr>
<td>Activation Force</td>
<td>≤ 50 g</td>
</tr>
<tr>
<td>Surface Hardness</td>
<td>9H</td>
</tr>
<tr>
<td>Light Transmission</td>
<td>92% ± 2%</td>
</tr>
<tr>
<td>Haze</td>
<td>7%</td>
</tr>
<tr>
<td>Durability</td>
<td>300 million touches</td>
</tr>
<tr>
<td>Top / Bottom Layer</td>
<td>Glass</td>
</tr>
<tr>
<td>Thickness</td>
<td>2.8 mm ± 10%</td>
</tr>
<tr>
<td>Connector</td>
<td>USB Type A</td>
</tr>
<tr>
<td>Compatibility</td>
<td>Windows 7 / XP / Linux / Mac</td>
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</table>

Part no.: 19TCB

** Dimension will be changed if multi-touch required

---

### Option — Projected Capacitive 10-point Touch

<table>
<thead>
<tr>
<th>Feature</th>
<th>TPC-10 Multi-touch</th>
</tr>
</thead>
<tbody>
<tr>
<td>Technology</td>
<td>Projected Capacitive</td>
</tr>
<tr>
<td>Touch Point</td>
<td>10 point touch standard ( special requirement available )</td>
</tr>
<tr>
<td>Input Type</td>
<td>Finger or Capacitive Stylus</td>
</tr>
<tr>
<td>Resolution</td>
<td>2048 x 2048</td>
</tr>
<tr>
<td>Touch Point Accuracy</td>
<td>± 10 mm offset</td>
</tr>
<tr>
<td>Response Speed</td>
<td>Max. 20 ms</td>
</tr>
<tr>
<td>Activation Force</td>
<td>≤ 10 g</td>
</tr>
<tr>
<td>Surface Hardness</td>
<td>7H</td>
</tr>
<tr>
<td>Light Transmission</td>
<td>≥ 88%</td>
</tr>
<tr>
<td>Haze</td>
<td>≤ 2%</td>
</tr>
<tr>
<td>Durability</td>
<td>&gt; 100 million touches</td>
</tr>
<tr>
<td>Bottom Layer</td>
<td>1.8 mm Tempered Glass</td>
</tr>
<tr>
<td>Connector</td>
<td>Film</td>
</tr>
<tr>
<td>Thickness</td>
<td>2.2 mm</td>
</tr>
<tr>
<td>Compatibility</td>
<td>Windows 7</td>
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</table>

Part no.: 19-TPC10

** Dimension will be changed if multi-touch required

---

### Options — DC Power

<table>
<thead>
<tr>
<th>Voltage</th>
<th>12V</th>
<th>24V</th>
<th>48V</th>
<th>125V</th>
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</thead>
<tbody>
<tr>
<td>Input</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>12-Volt</td>
<td>24-Volt</td>
<td>48-Volt</td>
<td>110-Volt</td>
</tr>
<tr>
<td>Range</td>
<td>9 ~ 18V</td>
<td>18 ~ 36V</td>
<td>36 ~ 75V</td>
<td>66 ~ 160V</td>
</tr>
<tr>
<td>Current</td>
<td>No load: 50 mA</td>
<td>50 mA</td>
<td>50 mA</td>
<td>35 mA</td>
</tr>
<tr>
<td></td>
<td>Full load: 4950 mA</td>
<td>2450 mA</td>
<td>1220 mA</td>
<td>749 mA</td>
</tr>
<tr>
<td>Output</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Voltage</td>
<td>12-Volt</td>
<td>12-Volt</td>
<td>12-Volt</td>
<td>12-Volt</td>
</tr>
<tr>
<td>Current</td>
<td>4.16A</td>
<td>4.16A</td>
<td>4.16A</td>
<td>6.25A</td>
</tr>
<tr>
<td>Efficiency</td>
<td>84%</td>
<td>85%</td>
<td>85%</td>
<td>91%</td>
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</table>

Part no.: 12VDC
24VDC
48VDC
125VDC

---

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**Product Specifications**

<table>
<thead>
<tr>
<th>LCD Panel</th>
<th>Standard</th>
<th>Sunlight Readable</th>
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</thead>
<tbody>
<tr>
<td>Brightness (cd/m²)</td>
<td>250</td>
<td>1000</td>
</tr>
<tr>
<td>Panel size (diagonal)</td>
<td>19-inch TFT color LCD</td>
<td></td>
</tr>
<tr>
<td>Native resolution</td>
<td>1280 x 1024</td>
<td></td>
</tr>
<tr>
<td>Contrast ratio (typ.)</td>
<td>1000 : 1</td>
<td></td>
</tr>
<tr>
<td>Response time (ms)</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Viewing angle (L/R/U/D)</td>
<td>85/85/80/80</td>
<td></td>
</tr>
<tr>
<td>Dot pitch (mm)</td>
<td>0.294</td>
<td></td>
</tr>
<tr>
<td>Display area (mm)</td>
<td>376.32H x 301.06V</td>
<td></td>
</tr>
<tr>
<td>Surface treatment</td>
<td>Haze 25%, Hard-coating</td>
<td></td>
</tr>
<tr>
<td>Surface hardness</td>
<td>3H</td>
<td></td>
</tr>
<tr>
<td>Backlight type</td>
<td>LED</td>
<td></td>
</tr>
<tr>
<td>MTBF (hrs)</td>
<td>30,000</td>
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<table>
<thead>
<tr>
<th>Design</th>
<th>AP-19</th>
<th>NAP-19</th>
<th>DP-19</th>
<th>OP-19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Protection</td>
<td>6mm front bezel</td>
<td>NEMA 4 / IP65</td>
<td>front cover</td>
<td>open frame</td>
</tr>
<tr>
<td>Front panel</td>
<td>Black, RAL 9005</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Rear casing</td>
<td>Black, RAL 9005</td>
<td>-</td>
<td>-</td>
<td>-</td>
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<table>
<thead>
<tr>
<th>Mounting</th>
<th>AP-19 / NAP-19</th>
<th>DP-19</th>
<th>OP-19</th>
</tr>
</thead>
<tbody>
<tr>
<td>VESA mount</td>
<td>100 x 100 mm</td>
<td>100 x 100 mm</td>
<td>100 x 100 mm</td>
</tr>
<tr>
<td>Universal mount</td>
<td>-</td>
<td>bundled</td>
<td>-</td>
</tr>
<tr>
<td>Desktop stand</td>
<td>option</td>
<td>option</td>
<td>-</td>
</tr>
<tr>
<td>Panel mount</td>
<td>bundled</td>
<td>bundled</td>
<td>-</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Physical</th>
<th>AP-19 / NAP-19</th>
<th>DP-19</th>
<th>OP-19</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product (W x D x H)</td>
<td>mm</td>
<td>inch</td>
<td>mm</td>
</tr>
<tr>
<td>476.5 x 63.6 x 384.1</td>
<td>18.8 x 2.5 x 15.1</td>
<td>25.6 x 4.9 x 23.5</td>
<td>651 x 124 x 597</td>
</tr>
<tr>
<td>445.5 x 58.9 x 353.1</td>
<td>17.5 x 2.3 x 13.9</td>
<td>651 x 124 x 597</td>
<td>354.5 x 57.6 x 381.1</td>
</tr>
<tr>
<td>473.5 x 57.6 x 381.1</td>
<td>18.6 x 2.3 x 15</td>
<td>651 x 124 x 597</td>
<td>354.5 x 57.6 x 381.1</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Video Option</th>
<th>HDMI 1.3 / HDCP 1.3</th>
<th>NTSC &amp; PAL</th>
<th>NTSC &amp; PAL</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Audio Option</th>
<th>Audio input :</th>
<th>3.5mm stereo jack</th>
<th>3kΩ / 2.8V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connector</td>
<td>3.5mm stereo jack</td>
<td>30kΩ / 750mV</td>
<td></td>
</tr>
<tr>
<td>Resistance / Power level</td>
<td>3.5mm stereo jack</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Speaker :</td>
<td>Dual stereo speaker</td>
<td>2W x 2</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Power</th>
<th>Input</th>
<th>Auto-sensing 100 to 240VAC, 50 / 60Hz</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumption :</td>
<td>Screen on</td>
<td>Max. 25W</td>
</tr>
<tr>
<td>Power saving mode</td>
<td>Max. 4W</td>
<td>Max. 4W</td>
</tr>
<tr>
<td>Power button on</td>
<td>Max. 1W</td>
<td>Max. 1W</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Environment</th>
<th>Operating temp.</th>
<th>0 to 55°C degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage temp.</td>
<td>-20 to 60°C degree</td>
<td></td>
</tr>
<tr>
<td>Operating humidity</td>
<td>20~90%, non-condensing</td>
<td></td>
</tr>
<tr>
<td>Operating altitude</td>
<td>16,000 ft</td>
<td></td>
</tr>
<tr>
<td>Non-operating altitude</td>
<td>40,000 ft</td>
<td></td>
</tr>
<tr>
<td>Shock</td>
<td>10G acceleration ( 11ms duration )</td>
<td></td>
</tr>
<tr>
<td>Vibration</td>
<td>10~300Hz 0.5G RMS random vibration</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compliance</th>
<th>EMC</th>
<th>FCC &amp; CE certified</th>
</tr>
</thead>
<tbody>
<tr>
<td>Safety</td>
<td>CE / LVD certified</td>
<td></td>
</tr>
<tr>
<td>Environment</td>
<td>RoHS2 &amp; REACH compliant</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Applicable Format</th>
<th>DVI-D / VGA Input</th>
<th>PC signal</th>
</tr>
</thead>
<tbody>
<tr>
<td>HDMI 1.3 / HDCP 1.3</td>
<td>1280 x 1024 x 60 / 75Hz</td>
<td></td>
</tr>
<tr>
<td>1280 x 960 x 60Hz</td>
<td>1280 x 768 x 60 / 75Hz</td>
<td></td>
</tr>
<tr>
<td>1152 x 864 x 75Hz</td>
<td>1024 x 768 x 60 / 70 / 75Hz</td>
<td></td>
</tr>
<tr>
<td>848 x 480 x 60Hz</td>
<td>800 x 600 x 60 / 72 / 75Hz</td>
<td></td>
</tr>
<tr>
<td>720 x 400 x 70Hz</td>
<td>640 x 480 x 60 / 72 / 75Hz</td>
<td></td>
</tr>
<tr>
<td>640 x 400 x 70Hz</td>
<td>640 x 350 x 70Hz</td>
<td></td>
</tr>
<tr>
<td>2ch Linear PCM</td>
<td>2ch Linear PCM</td>
<td></td>
</tr>
<tr>
<td>Audio signal</td>
<td>Same as VGA</td>
<td></td>
</tr>
<tr>
<td>HDMI input</td>
<td>1280 x 720 x 50 / 60Hz ( 720p )</td>
<td></td>
</tr>
<tr>
<td>1280 x 480 x 50 / 60Hz ( 576p / 480p )</td>
<td>Audio signal</td>
<td>2ch Linear PCM</td>
</tr>
</tbody>
</table>
Professional and Versatile 19" LED Monitor

Front View

AP-19
NAP-19

Side View

Rear View

DP-19

OP-19
UltraView series covers a full range of professional LCD display sizes from 6.5" to 65". Please select from the below the most suitable model for your application.

**Sales Inquiry**
sales@rackmountsales.com

**Technical Support**
sales@rackmountsales.com

<table>
<thead>
<tr>
<th>16 : 9</th>
<th>16 : 9</th>
<th>16 : 10</th>
<th>4 : 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>( 4K / 1080p )</td>
<td>( 1080p )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>K65&quot;</td>
<td>F21&quot;</td>
<td>X24&quot;</td>
<td>20&quot;</td>
</tr>
<tr>
<td>K55&quot;</td>
<td>F17&quot;</td>
<td>X17&quot;</td>
<td>19&quot;</td>
</tr>
<tr>
<td>K43&quot;</td>
<td>F15&quot;</td>
<td>W19&quot;</td>
<td>17&quot;</td>
</tr>
<tr>
<td>K32&quot;</td>
<td></td>
<td></td>
<td>15&quot;</td>
</tr>
<tr>
<td>K28&quot;</td>
<td></td>
<td></td>
<td>12&quot;</td>
</tr>
<tr>
<td>K23&quot;</td>
<td></td>
<td></td>
<td>10&quot;</td>
</tr>
<tr>
<td>K17&quot;</td>
<td></td>
<td></td>
<td>8&quot;</td>
</tr>
<tr>
<td>K15&quot;</td>
<td></td>
<td></td>
<td>6&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>16 : 10</th>
<th>4 : 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>W19&quot; ( 1440 x 900 )</td>
<td>19&quot; ( 1280 x 1024 )</td>
</tr>
<tr>
<td>X17&quot; ( 1920 x 1200 )</td>
<td>17&quot; ( 1280 x 1024 )</td>
</tr>
</tbody>
</table>

**Sunlight Readable**

<table>
<thead>
<tr>
<th>16 : 9</th>
<th>16 : 9</th>
<th>16 : 10</th>
<th>4 : 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>( 4K / 1080p )</td>
<td>( 1080p )</td>
<td></td>
<td></td>
</tr>
<tr>
<td>K65&quot;</td>
<td>F21&quot;</td>
<td>W19&quot;</td>
<td>19&quot;</td>
</tr>
<tr>
<td>K55&quot;</td>
<td>F17&quot;</td>
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<td>17&quot;</td>
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<tr>
<td>K43&quot;</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K32&quot;</td>
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<td></td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>16 : 10</th>
<th>4 : 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>W19&quot; ( 1440 x 900 )</td>
<td>19&quot; ( 1280 x 1024 )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4 : 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>19&quot; ( 1280 x 1024 )</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>4 : 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>17&quot; ( 1280 x 1024 )</td>
</tr>
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</table>

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<tbody>
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<tbody>
<tr>
<td>6&quot; ( 640 x 480 )</td>
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<tr>
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