20,000 lm of SOLID SHINE Laser Power in a Compact, Lightweight Projector That Cuts Total Cost of Ownership

**PT-RZ21K Series**

- 3-Chip DLP™ Projectors

**Available from Autumn 2017**

**Preliminary As of February 2017**

**PT-RZ21K Series**

<table>
<thead>
<tr>
<th></th>
<th>PT-RZ21K</th>
<th>PT-RS20K</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brightness</td>
<td>20,000 lm</td>
<td></td>
</tr>
<tr>
<td>Resolution</td>
<td>WUXGA</td>
<td>SXGA+</td>
</tr>
<tr>
<td>Contrast</td>
<td>20,000:1</td>
<td></td>
</tr>
</tbody>
</table>

**Original Technology Assures Elite Performance**

- Combines 3-Chip DLP™ with Panasonic SOLID SHINE Laser Phosphor Technology for Bright, Natural, and Immersive Picture Quality
- Compatible with Latest Color Space Standard for Accurate Image Reproduction
- Minimal Maintenance Required Under Continuous Operation
- Dust-resistant Design Featuring Hermetically Sealed Laser Modules
- Efficient Cooling System for Stable Operation and Long Life

**Reference Image Quality Maintained Longer**

- High 20,000 lm Brightness in a Compact, Lightweight, Easy-to-Handle Body
- Dynamic Contrast Laser Light-source Modulation Achieves High Contrast
- Detail Clarity Processor Clarifies and Enhances Fine Details with Advanced Processing Algorithm
- Daylight View Function Improves Color Perception in Bright Environments and in Mapping Applications

**Versatile Installation and System Flexibility**

- Free 360-degree Installation (Vertical and Horizontal)
- Shares Optional Lenses with Panasonic 3-Chip DLP™ Projector Family Including Ultra-Short Throw Lens
- DIGITAL LINK Supports Transmission of Uncompressed Full HD Video and Control Commands Through Single LAN Cable
- Multi-Screen Support System Seamlessly Connects Multiple Screens
- Multi-Unit Brightness and Color Control
- Free Geometry Manager Pro and Optional Upgrade Kit
### Specifications (Tentative)

**Power supply**
AC 100–120 V, AC 200–240 V (Brightness decreases at voltages less than AC 200 V)

**Power consumption**
TBD

**DLPI chip**
Panel size
24.1 mm (0.95 inches) diagonal (4:3 aspect ratio)

**Display method**
DLPI™, DMD Technology

**Refresh rate**
120 Hz

**Lens**
Optional or none included with this model

**Light source**
Laser diode; light source life: 20,000 hours (thermal, brightness decreases to approx. 30 %)

**Screen size (diagonal)**
1.78–25.4 in (40–640 cm) with the ET-D75LE60, 18.10 aspect ratio
3.05–15.24 m (120–600 in) with the ET-D75LE95, 16:10 aspect ratio
1.78–15.24 m (70–600 in) with the ET-D75LE50, 4:3 aspect ratio
3.05–15.24 m (120–600 in) with the ET-D75LE30, 4:3 aspect ratio

**Brightness**
5,000,000 (1400 x 1050 x 3) pixels

**Center-to-corner uniformity**
30 %

**Contrast**
20,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)

**Horizontal/vertical, free 360-degree installation**

**Keystone correction range**

### Operating Environment

- **Cabinet materials**
  - Molded plastic
- **Temperature**
  - 5°C to 40°C
- **Humidity**
  - 20% to 80% (non-condensing)
- **Altitude**
  - 0 to 2,000 m
- **Operating position**
  - Vertical or horizontal ±90° from horizontal

### Dimensions (W × H × D)

**ET-D75LE20 / ET-D75LE30**
1.78–15.24 m (70–600 in) with 4:3 aspect ratio
1.78–25.4 m (70–640 cm) with 16:10 aspect ratio

**ET-D75LE6 / ET-D75LE10**
1.78–25.4 m (70–640 cm) with 16:10 aspect ratio
3.05–15.24 m (120–600 in) with 4:3 aspect ratio

**ET-D75LE50 / ET-D75LE95**
3.05–15.24 m (120–600 in) with 4:3 aspect ratio
6.912,000 (1920 x 1200 x 3) pixels

**Brightness**
20,000 lm / 21,000 lm (Center)

**Contrast**
20,000:1 (Full On/Full Off, Dynamic Contrast Mode: 3)

**Center-to-corner uniformity**
90 %

**Resolution**
1920 x 1200 pixels

**Vertical (from center of screen)**

### Resolution

<table>
<thead>
<tr>
<th>Screen size (diagonal)</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.78–25.4 in (40–640 cm)</td>
<td>1920 x 1200 pixels</td>
</tr>
<tr>
<td>1.78–15.24 m (70–600 in)</td>
<td>1920 x 1200 pixels</td>
</tr>
<tr>
<td>3.05–15.24 m (120–600 in)</td>
<td>1920 x 1200 pixels</td>
</tr>
</tbody>
</table>

### Reflector

**ET-D75LE20 / ET-D75LE30**

**ET-D75LE6 / ET-D75LE10**

**ET-D75LE50 / ET-D75LE95**

### Light source

**ET-D75LE20 / ET-D75LE30**

**ET-D75LE6 / ET-D75LE10**

**ET-D75LE50 / ET-D75LE95**

### Lens

**Fixed-Focus Lens**
ET-D75LE6 / ET-D75LE10 / ET-D75LE20 / ET-D75LE30 / ET-D75LE50 / ET-D75LE95

**Replacement Filter Unit**
TBD

**Ceiling Mount Bracket**
For High Ceilings
ET-PKD526H / ET-PKD528H

**Ceiling Mount Bracket**
For Low Ceilings
ET-PKD525H / ET-PKD527H

**Projector Mount Bracket**
ET-PKD520B

**Geometry Manager Pro Software Upgrade Kit**
ET-UKE07 Series

**Auto Screen Adjustment Upgrade Kit**
ET-OJX10

---

**Weights and dimensions shown are approximate. Specifications and appearances are subject to change without notice. Product availability differs depending on region and country. This product may be subject to export control regulations. DLPI, DLP logo and DLP Médaille logo are trademarks or registered trademarks of Texas Instruments, Inc. HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries. PJLink™ is a registered trademark or pending trademark in Japan, the United States, and other countries and regions. All other trademarks are the property of their respective trademark owners. © 2017 Panasonic Corporation. All rights reserved.**

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For more information about Panasonic projectors, please visit Projector Global Website – www.panasonic.net/avc/projector
Facebook – www.facebook.com/panasonicprojector
YouTube – www.youtube.com/user/PanasonicProjector
**PT-VZ580 Series**

**LCD Projectors**

**Available from June 2017**

**Premium Portables Bring Bright, Wireless**\*1 **Projection to the Office and Classroom with No Mess and No Stress**

---

**PT-VZ585N**

- Brightness: 5,000 lm
- Resolution: WUXGA
- Contrast: 10,000:1

**PT-VZ580**

- Brightness: 5,300 lm
- Resolution: WXGA

**PT-VW545N**

- Brightness: 5,500 lm
- Resolution: XGA

**PT-VX615N**

- Brightness: 5,500 lm

**PT-VX610**

- Brightness: 5,500 lm

---

**High Brightness and Great Pictures in an Eco-friendly Design**

- Bright, Large-format Image Projection at Up to 5,500 lm (WX615N/VX610)
- Pin-sharp WUXGA Resolution for Full HD Video via PC (VZ585N/VZ580)
- Lamp and Filter\(^2\) Replacement Timing Extended to 7,000 hours\(^1\)
- Mechanical Iris Enables 10,000:1 Dynamic Contrast for Text Legibility, Clearer Graphics, and Naturally Balanced Image Quality
- Daylight View Basic Technology Senses Ambient Light for Optimal Pictures in Bright Environments
- Color Adjustment and Color Correction Functions Enhance Image Consistency Across Screens in Multi-unit Applications
- ECO Lamp Power Modes for Efficiency and Eco-friendly Projector Design

---

**Wireless and Wired Network Functions**

- Supports Panasonic Apps for Wireless Media Casting from Android\(^{™}\) and iOS Mobiles\(^{1}\)
- Supports Miracast with Meeting Mode and Cut-in Mode for Collaborative or Managed Presentations\(^4\)
- Supports Wireless Manager ME for Wired or Wireless Connection with Windows\(^{®}\) PC and Mac Screen Images\(^1\)
- QR Code Display Function Simplifies Wireless Connection to Supported Smartphones and Tablets\(^1\)
- Compatible with IEEE802.1X Protocol (EAP over LAN) for Secure Network Connection\(^1\)
- Optional Early Warning Software to Monitor Device Status and Send Alerts if Abnormalities are Detected
- Quiet 29 dB\(^7\) Operation Minimizes Distractions in Quiet Rooms
- Built-in 10 W Monaural Speaker
- Direct Power Off Function Allows Projector Shutdown from Mains

---

**Simple, Versatile Connectivity and Operation**

- DIGITAL LINK\(^*\) Single-cable\(^*\) LAN Connection for Long-distance Video and Control Signal Transmission Up to 150 m (492 ft)\(^6\)
- Vertical Lens-shift Function Adjusts Images On Screen Without Distortion
- Corner Keystone Correction Image Alignment for Off-axis Projection
- Curved Screen Correction for Projection Onto Curved Screen Surfaces
- Optional Early Warning Software to Monitor Device Status and Send Alerts if Abnormalities are Detected
- Quiet 29 dB\(^7\) Operation Minimizes Distractions in Quiet Rooms
- Built-in 10 W Monaural Speaker

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\(^1\) PT-VZ585N/VW545N/VX615N only. \(^2\) Filter can be washed and reused twice. If the filter is not sufficiently clean after washing, replacement is advised. Please consult your user manual for further information. \(^3\) Approximate maximum value with Lamp Mode set to Eco. \(^4\) PT-VZ585N/VW545N/VX615N only. Miracast-compatible source device required. \(^5\) STP cable CAT 5e or higher required. \(^6\) 150 m (492 ft) transmission available only with ET-YFB200G DIGITAL LINK Switcher for signals up to 1080p (dot clock frequency 148.5 MHz) in Long Reach Mode. \(^7\) With Lamp Mode set to ECO2. 37 dB in Normal/ECO1 Mode.
Specifications (Tentative)

**Model**
- PT-VZ585N
- PT-VZ580
- PT-VW545N
- PT-VW540
- PT-VX615N
- PT-VX610

**Power supply**
- AC 120 V, 50/60 Hz (North America), AC 110 V, 60 Hz (Taiwan), AC 240 V, 50/60 Hz (other countries)

**Power consumption**
- TBD

**Standby power consumption**
- TBD

**Standby Mode**
- TBD

**LCD panel**
- Panel size: 0.64 inches (1.63 cm) (16:9 aspect ratio)
- Display area: 0.64 inches (1.63 cm) (4:3 aspect ratio)

**Display**
- Transyn LCD panel

**Pixels**
- 1,920 x 1,080 pixels

**Lamp**
- 200 W (in lamp mode)

**Screen size (diagonal)**
- 70–300 inches

**Brightness**
- 5,000 lm (in signal output, PC: lamp power: Normal, picture mode: Dynamic)

**Center-to-center uniformity**
- 6%

**Resolution**
- 1280 x 1080 pixels

**Scanning**
- Horizontal: maximum ±30° (manual, input: WUXGA)
- Vertical: maximum ±35° (auto/manual, input: XGA), Vertical 0~+40% from center of screen (manual), U/D ratio on top end: 9:1

**Optical axis shift**
- Vertical: ±44 mm from center of screen (manual)

**Keypads**

**Installation**
- 1,024,000 (1920 × 1200) × 3, total of 6,912,000 pixels

**Audio IN**
- AUDIO IN 3: Pin jack (L/R)
- AUDIO IN 2: M3 jack (L/R)
- AUDIO IN 1: M3 jack (L/R)

**Video IN**
- Pin jack

**RGB/Y • P**
- COMPUTER IN 2/MONITOR OUT: D-sub 15-pin (female) [HDMI IN: HDMI 19-pin × 2 (Deep Color, compatible with HDCP), audio signal: Linear PCM [sampling frequency: 48 kHz/44.1 kHz/32 kHz]]

**HDMI**
- HDMI IN: HDMI 19-pin × 2 (Deep Color, compatible with HDCP), audio signal: Linear PCM

**Memory Viewer**
- x 1

**LAN/DIGITAL LINK**
- RJ-45 × 1

**USB**
- Type A for DC output x 1

**USB B: Type B for USB Display x 1**

**Dimensions (W x H x D)**
- 389 x 250 x 332 mm (15 5/16 x 9 7/8 x 13 1/16"

**Weight**
- 38.9 kg (85.9 lbs)

**Lamp life**
- 5,500 lm (input signal: PC, lamp power: Normal, picture mode: Dynamic)

**Power supply**
- AC 120 V, 50/60 Hz (North America), AC 110 V, 60 Hz (Taiwan), AC 240 V, 50/60 Hz (other countries)

**Power consumption**
- TBD

**Standby power consumption**
- TBD

**Standby Mode**
- TBD

**LCD panel**
- Panel size: 0.64 inches (1.63 cm) (16:9 aspect ratio)

**Display**
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- AUDIO IN 1: M3 jack (L/R)

**Video IN**
- Pin jack

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**Memory Viewer**
- x 1

**LAN/DIGITAL LINK**
- RJ-45 × 1

**USB**
- Type A for DC output x 1

**USB B: Type B for USB Display x 1**

**Dimensions (W x H x D)**
- 389 x 250 x 332 mm (15 5/16 x 9 7/8 x 13 1/16"

**Weight**
- 38.9 kg (85.9 lbs)

**Operating environment**
- Operating temperature: 0~40 °C (32~104 °F) (altitude: less than 2,000 m (6,562 ft)), 0~30 °C (32~86 °F) (altitude: 2,000~5,000 m (6,562~16,404 ft))

**Supplied accessories**

<table>
<thead>
<tr>
<th>Optional Accessories</th>
</tr>
</thead>
<tbody>
<tr>
<td>High-Ceiling Mount Bracket ET-PKLU100H</td>
</tr>
<tr>
<td>Low-Ceiling Mount Bracket ET-PKLU100S</td>
</tr>
<tr>
<td>Bracket Assembly ET-PKX4000E</td>
</tr>
<tr>
<td>Replacement Lamp Unit ET-LAV4000</td>
</tr>
<tr>
<td>Replacement Filter Unit ET-RV410</td>
</tr>
<tr>
<td>Early Warning Software ET-SW1A100 Series</td>
</tr>
<tr>
<td>DIGITAL LINK Switcher ET-YFD200</td>
</tr>
<tr>
<td>Digital Interface Box ET-YFB100</td>
</tr>
<tr>
<td>Easy Wireless Stick ET-UWB100</td>
</tr>
</tbody>
</table>

* Availability depends on region.

For more information about Panasonic projectors, please visit Projector Global Website – panasonic.net/avc/projector
Facebook – www.facebook.com/panasonicprojector
YouTube – www.youtube.com/user/PanasonicProjector

All information included here is valid as of February 2017.

PT-VZ580PRE1 Printed in Japan.
LFV8 Series Delivers Convincing Cost-to-Performance In a 4K-ready Video Wall with DisplayPort and More

<table>
<thead>
<tr>
<th>LFV8 Series</th>
<th>TH-55LFV8</th>
<th>TH-49LFV8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen size</td>
<td>55-inch</td>
<td>49-inch</td>
</tr>
<tr>
<td>Panel/backlight</td>
<td>IPS / Direct LED</td>
<td></td>
</tr>
<tr>
<td>Brightness</td>
<td>500 cd/m²</td>
<td>450 cd/m²</td>
</tr>
<tr>
<td>Bezel-to-Bezel*¹</td>
<td>3.5 mm (0.14”)</td>
<td></td>
</tr>
</tbody>
</table>

Slim Bezels and Brilliant Pictures
- Bezel-to-Bezel*¹ Distance: 3.5 mm [0.14”]
- Presents a Virtually Seamless Image
- IPS Panel for Clear Off-axis Visibility and Wide-Angle Color Accuracy
- DisplayPort 1.2 In/Out Terminals for a Native 4K (3840 x 2160/30p) Image Across Daisy-chained 2 x 2 Video-wall Panels with MST 4K Input Signal
- Precise Scaling and Enlargement of 4K (3840 x 2160) SST Signals Across 2 x 2 Video Walls and Larger
- Anti-Glare (AG) Screen Surface for Clear Visibility in Bright Ambient Light
- Energy-efficient Direct-lit LED Backlighting with Local Dimming to Optimize Contrast According to Individual Scenes

High Reliability and Low TCO
- Supports Daisy-chain Connection via DVI/DisplayPort and RS232C
- Engineered for Dependable and Economical 24/7 Operation with High Suitability for Airports, Train Stations, Surveillance, and Signage
- Supports Portrait Orientation Without Affecting Color, Brightness, or Operational Life

Cost-Effective Installation and Easy Operation
- Factory Pre-Calibrated Color Minimizes Color Differences in Multi-screen Installations
- Fast and Precise Video-Wall Mounting System with Optional Installation Mount
- Up to 10 x 10*² Multi-Screen Configuration for High-Impact Images in Large Spaces

*¹ Bezel-to-bezel distance refers to the combined top and bottom (or left and right) bezel-width of adjacent displays in video-wall configuration. The gap between displays is not included. *² Multi-screen configuration for 4K output is to be determined.
Specifications (Tentative)

**Model**

<table>
<thead>
<tr>
<th>Display</th>
<th>TH-55LFV8</th>
<th>TH-49LFV8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen size (diagonal)</td>
<td>55-inch (1,387 mm)</td>
<td>49-inch (1,232 mm)</td>
</tr>
<tr>
<td>Panel type</td>
<td>IPS/Direct LED</td>
<td>IPS/Direct LED</td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
<td>16:9</td>
</tr>
<tr>
<td>Effective display area (W x H)</td>
<td>1,209 x 850 mm (47.6” x 26.8&quot;)</td>
<td>1,073 x 644 mm (42.2” x 23.7&quot;)</td>
</tr>
<tr>
<td>Number of pixels (H x V)</td>
<td>1,073 x 1,080</td>
<td>1,073 x 1,080</td>
</tr>
<tr>
<td>Brightness</td>
<td>500 cd/m²</td>
<td>490 cd/m²</td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>1,400:1</td>
<td>1,300:1</td>
</tr>
<tr>
<td>Dynamic contrast</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td>Response time</td>
<td>8.0 ms (L to R)</td>
<td>8.0 ms (L to R)</td>
</tr>
<tr>
<td>Viewing angle (Horizontal/vertical)</td>
<td>178° / 178° (CR ≥ 10)</td>
<td>178° / 178° (CR ≥ 10)</td>
</tr>
<tr>
<td>Panel surface treatment</td>
<td>Anti-glare</td>
<td>Anti-glare</td>
</tr>
</tbody>
</table>

**Connection Terminal**

- **VIDEO In**
  - BNC × 1 set (Shared with Component In)

- **Audio In (L/R)**
  - RCA jack (L+R) × 1 (Shared with Component In)

- **HDMI In**
  - HDMI TYPE A connector × 2

- **Component In**
  - BNC × 1 set (Shared with VIDEO In)

- **Audio In (L/R)**
  - RCA jack (L+R) × 1 set (Shared with VIDEO In)

- **DVI-D In**
  - DVI-D 24-pin × 1

- **DVI Out**
  - DVI-D 24-pin × 1

- **Audio In (L/R)**
  - Stereo Mini jack (M3) × 1 (Shared with PC In)

- **PC In**
  - Mini D sub 15 pin × 1

- **Audio In (L/R)**
  - Stereo Mini jack (M3) × 1 (Shared with DVI-D In)

- **DisplayPort In**
  - DisplayPort × 1 (DP1.2)

- **DisplayPort Out**
  - DisplayPort × 1 (DP1.2)

- **USB**
  - USB connector (TYPE A) × 1, DC 5 V/500 mA

- **LAN**
  - RJ45 × 1 for network, compatible with PJLink™, 10BASE-T/100BASE-TX

- **Serial In/Out**
  - 2.5 mm phone jack × 1, RS-232C compatible

- **IR In/Out**
  - Stereo Mini jack (M3) × 1 × 1

- **Audio Out**
  - Stereo Mini jack (M3) × 1

**Audio**

- **External Speaker**
  - 20 W [10 W + 10 W]

**Electrical**

- **Power requirements**
  - 110–240 V AC, 50/60 Hz

- **Power consumption**
  - 330 W or lower

- **Power off condition**
  - 0 W

- **Standby condition**
  - Approx. 0.5 W

**Mechanical**

- **Dimensions (W x H x D)**
  - 1,213.4 x 684.2 x 95 mm (47.8” x 26.9” x 3.8")
  - 1,077.7 x 607.9 x 103.8 mm (42.4” x 23.9” x 4.1")

- **Bezel width**
  - 3.5 mm (L: 2.25 mm, R/B: 1.25 mm)

- **Weight**
  - 190

- **Wall-hanging pitch**
  - VESA compliant 400 x 400 mm (15.8” x 15.8”)

**Installation orientation**

- Landscape/Portrait

**Operating environment**

- Temperature: 0 °C to 40 °C (32 °F to 104 °F) for up to 3,000 m altitude
- Humidity: 20 % to 80 % (Non-condensation)

**Storage environment**

- Temperature: -20 °C to 60 °C (-4 °F to 140 °F)
- Humidity: 5 % to 95 % (Non-condensation) (Altitude: 0 – 9,000 m)

**Optional Accessories**

- Installation Mount
  - TY-VK49LV1
  - TY-VK55LV1

- Early Warning Software
  - ET-SWA100 Series*

* Part number suffix may differ depending on the license type.
Standard Signage Displays Are Engineered for Confident and Reliable 24/7 Operation

**SF2 Series**

**Screen size**
- TH-65SF2: 65-inch
- TH-55SF2: 55-inch
- TH-49SF2: 49-inch
- TH-43SF2: 43-inch

**Panel/backlight**
- IPS / Edge LED

**Brightness**
- TH-65SF2: 450 cd/m²
- TH-55SF2: 1,100:1
- TH-49SF2: 1,300:1
- TH-43SF2: 1,100:1

**Contrast**
- TH-65SF2: 1,000:1
- TH-55SF2: 1,100:1
- TH-49SF2: 1,300:1
- TH-43SF2: 1,100:1

**Operating time**
- TH-65SF2: 24 hours/day
- TH-55SF2: 24 hours/day
- TH-49SF2: 24 hours/day
- TH-43SF2: 24 hours/day

---

**Immersive Pictures from Advanced IPS Panel**
- High 450 cd/m² Brightness Makes for Comfortable Viewing in Bright Spaces
- IPS Panel Preserves Color Accuracy and Visibility When Viewed Off-Axis
- Optimized Image Modes to Suit Specific Content, Video Sources, and Environments
- Slim-bezel Design Looks Great and Maximizes Viewable Screen Area in Smaller Physical Display Size

**Easy-to-Install Self-Contained Signage**
- DIGITAL LINK Transmits Video, Audio, and Control Signals up to 150 m (492 ft)* in Large Venues, Saving on Cabling Costs
- USB Media Player for Simple Signage Applications Without Set Top Box (STB)
- Content Management Software for Automated Signage Playback with Scheduling Function
- Data-cloning Function Copies Settings Data from Master Display via USB Memory or LAN to Slave Displays
- Easy Network Setup for Multiple Displays via USB Memory Cloning Function
- Supports CEC over HDMI® for Power On/Off Synchronized to Playback Control

**Dependable and Consistent 24/7 Imaging Performance**
- Efficiency and High Reliability for Continuous 24-hour Operation
- Failback/Failover Function for Emergencies When Signals Interrupted
- Customizable Image Display On Startup and When No Signal Is Detected
- Free Multi Monitoring & Control Software to Monitor and Control up to 2,048 Devices over LAN from Single PC
- Optional ET-SWA100 Series Early Warning Software to Monitor Device Status, History, and Send Alerts if Abnormalities are Detected

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* TH-65SF2E and TH-65/55/49/43SF2W only. 150 m (492 ft) transmission available only with ET-YFB200G DIGITAL LINK Switcher for signals up to 1080/60p (dot clock frequency 148.5 MHz) in Long Reach Mode.
## Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>TH-65SF2</th>
<th>TH-55SF2</th>
<th>TH-49SF2</th>
<th>TH-43SF2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Display panel</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Screen size (diagonal)</td>
<td>65-inch (1,639 mm)</td>
<td>55-inch (1,387 mm)</td>
<td>49-inch (1,232 mm)</td>
<td>43-inch (1,079 mm)</td>
</tr>
<tr>
<td>Panel type</td>
<td>ProDisc LED</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Aspect ratio</strong></td>
<td>16:9</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Effective display area (W x H)</strong></td>
<td>1,428 x 803 mm (56.2&quot; x 31.6&quot;)</td>
<td>1,208 x 685 mm (47.6&quot; x 26.7&quot;)</td>
<td>1,073 x 604 mm (42.2&quot; x 23.7&quot;)</td>
<td>941 x 529 mm (37.0&quot; x 20.8&quot;)</td>
</tr>
<tr>
<td><strong>Number of pixels (H x V)</strong></td>
<td>1920 x 1080</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Brightness</strong></td>
<td>450 cd/m²</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Contrast ratio</strong></td>
<td>1,300:1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dynamic contrast</strong></td>
<td>50,000:1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Response time</strong></td>
<td>10 ms (G to G)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Viewing angle (Horizontal/vertical)</strong></td>
<td>178 °/178 ° (CR ≥ 10)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Video In / Audio In</strong></td>
<td>4-pin Mini jack (M4) x 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>HDMI In</strong></td>
<td>4-pin Mini jack (M4) x 1 (Shared with PC/Video in)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Audio In (L/R)</strong></td>
<td>4-pin Mini jack (M4) x 1 (Shared with DVI/D/Video in)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DVI-D In</strong></td>
<td>19-pin Mini jack (M4) x 1 (Shared with PC/Video in)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Audio Out (L/R)</strong></td>
<td>Stereo Mini jack (M4) x 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>USB memory</strong></td>
<td>USB TYPE A connector x 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Control</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Serial In/Out</strong></td>
<td>D-sub 9-pin x 1, RS-232C compatible</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LAN</strong></td>
<td>RJ-45 x 1, 100BASE-TX, Compatible with PJLink™ for TH-65SF26 and TH-65/55/49/43SF2W (Shared with DIGITAL LINK); RJ-45 x 1, 100BASE-TX, Compatible with PJLink™ for TH-55/49/43SF2E and TH-65/55/49/43SF2U (Shared with DIGITAL LINK)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DIGITAL LINK</strong></td>
<td>RJ-45 x 1, 100BASE-TX, Compatible with PJLink™ for TH-65SF26 and TH-65/55/49/43SF2W (Shared with DIGITAL LINK)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>IR In/Out</strong></td>
<td>Stereo Mini jack (M4) x 1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Audio</strong></td>
<td>20 W (10 W + 10 W)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Built-in speaker</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Power requirements</strong></td>
<td>110<del>127 V AC, 50/60 Hz, 220</del>240 V AC, 50/60 Hz</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>180 W</td>
<td>180 W</td>
<td>180 W</td>
<td>180 W</td>
</tr>
<tr>
<td><strong>On mode average power consumption</strong></td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
<td>TBD</td>
</tr>
<tr>
<td><strong>Power off condition</strong></td>
<td>Approx. 0.3 W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Standby condition</strong></td>
<td>Approx. 0.5 W</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mechanical</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions (W x H x D)</strong></td>
<td>1,452 x 832 x 64 mm (57.2&quot; x 32.4&quot; x 2.5&quot;)</td>
<td>1,208 x 685 x 64 mm (47.6&quot; x 26.7&quot; x 2.5&quot;)</td>
<td>1,073 x 604 x 64 mm (42.2&quot; x 23.7&quot; x 2.5&quot;)</td>
<td>941 x 529 x 64 mm (37.0&quot; x 20.8&quot; x 2.5&quot;)</td>
</tr>
<tr>
<td><strong>Bezel width</strong></td>
<td>T/R/L: 9.5 mm (0.38&quot;) B: 15.6 mm (0.62&quot;)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Approx. 29.9 kg (65.7 lbs.)</td>
<td>Approx. 29.9 kg (65.7 lbs.)</td>
<td>Approx. 16.0 kg (35.7 lbs.)</td>
<td>Approx. 14.7 kg (32.4 lbs.)</td>
</tr>
<tr>
<td><strong>Wall-hanging pitch</strong></td>
<td>VESA compliant: 600 x 400 mm (23.6&quot; x 15.8&quot;)</td>
<td></td>
<td></td>
<td>Approx. 10.7 kg (23.6 lbs.)</td>
</tr>
<tr>
<td><strong>Installation orientation</strong></td>
<td>Landscape/Portrait</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Environment</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Operating environment</strong></td>
<td>Temperature: 0 °C to 40 °C (32 °F to 104 °F) for up to 1,400 m altitude / 0 °C to 35 °C (32 °F to 95 °F) for between 1,400 m and 2,800 m altitude, Humidity: 20 % to 80 % (Non-condensation)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Storage environment</strong></td>
<td>Temperature: -20 °C to 60 °C ( -4 °F to 140 °F ) / Humidity: 20 % to 80 % (Non-condensation)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Operating time</strong></td>
<td>24 hours</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**Optional Accessories**

- **Pedestal**
  - TY-ST43PE9 (43"")
  - TY-ST49PE9 (49"")
  - TY-ST65PE9 (55"")

- **Early Warning Software**
  - ET-SWA100 Series*

- **Auto Display Adjustment Upgrade Kit**
  - TY-VUK10 Series

- **Digital Interface Box**
  - ET-YFB100G

- **DIGITAL LINK Switcher**
  - ET-YFB200G

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* Full number suffix may differ depending on the license type.

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YouTube – www.youtube.com/PanasonicProDisplay

All information included here is valid as of February 2017.

PRELIMINARY

As of February 2017

SF2PRE1 Printed in Japan.
Enjoy Full Digital Whiteboard Capabilities in a Flexible and Cost-effective Interactive Display

<table>
<thead>
<tr>
<th>BQE1/BFE1 Series</th>
<th>TH-75BQE1</th>
<th>TH-65BFE1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen size</td>
<td>75-inch</td>
<td>65-inch</td>
</tr>
<tr>
<td>Panel/backlight</td>
<td>VA / Direct LED</td>
<td></td>
</tr>
<tr>
<td>Brightness</td>
<td>400 cd/m²</td>
<td></td>
</tr>
<tr>
<td>Resolution</td>
<td>3840 x 2160</td>
<td>1920 x 1080</td>
</tr>
</tbody>
</table>

Practical Whiteboard Increases Productivity and Efficiency
- Reliable and cost-efficient visual communication solution for businesses and classrooms
- Supports Panasonic Whiteboard Software for PC
- Draw and write, change line thickness, color, and background with tool palette
- Software includes whiteboard mode, PowerPoint® presentation mode, desktop mode, video, and screen capture functions
- Intuitive operation with precision 10-point (maximum) IR touch sensor allows more than two people to write at once
- Includes stylus pens for smooth writing and operation

Excellent Visibility in a Stylish Design
- Efficient high-visibility panel with 400 cd/m² brightness
- Anti-glare (AG) screen surface for clear visibility in bright ambient light
- Choice of input terminals including HDMI and PC for 4K/Full HD video
- Variety of inputs to display content from media players
- Wide 75-inch screen and 4K resolution ideal for large spaces (TH-75BQE1)

System Flexibility and Additional Features
- Inbuilt USB viewer easily displays digital media from USB storage devices
- Protective glass for extra security against impact
- Protective safety film prevents glass from scattering on accidental impact
- External front-firing speakers for clear audibility in classrooms
- Carriage handles make display transport from room to room easier
## Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>TH-75BFE1</th>
<th>TH-65BFE1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Display panel</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Screen size (diagonal)</td>
<td>75-inch</td>
<td>65-inch</td>
</tr>
<tr>
<td>Panel type</td>
<td>VA/Direct LED</td>
<td></td>
</tr>
<tr>
<td>Aspect ratio</td>
<td>16:9</td>
<td></td>
</tr>
<tr>
<td>Effective display area (W x H)</td>
<td>TBD</td>
<td>1,428 x 813 mm (56.2” x 31.6”</td>
</tr>
<tr>
<td>Number of pixels (H x V)</td>
<td>3840 x 2160</td>
<td>1920 x 1080</td>
</tr>
<tr>
<td>Brightness</td>
<td>400 cd/m²</td>
<td></td>
</tr>
<tr>
<td>Contrast ratio</td>
<td>4,000:1</td>
<td></td>
</tr>
<tr>
<td>Response time</td>
<td>8 ms (6 to 6)</td>
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</tr>
<tr>
<td>Viewing angle (Horizontal/vertical)</td>
<td>178°/178° - 2R x 1Q</td>
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</tr>
<tr>
<td>Panel surface treatment</td>
<td>Anti-glare</td>
<td></td>
</tr>
<tr>
<td>Detection method</td>
<td>Infrared blocking detection method</td>
<td></td>
</tr>
<tr>
<td>Touch operation</td>
<td>Up to 10-point multi-touch</td>
<td></td>
</tr>
<tr>
<td><strong>Connection terminal</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HDMI In</td>
<td>HDMI TYPE A connector x 2</td>
<td></td>
</tr>
<tr>
<td>PC In</td>
<td>Mini D-sub 15-pin x 1 (compatible with DDC/2B)</td>
<td></td>
</tr>
<tr>
<td>DVI-D In</td>
<td>DVI-D 24-pin x 1</td>
<td></td>
</tr>
<tr>
<td>USB memory</td>
<td>USB TYPE A connector x 1 for Memory Viewer</td>
<td></td>
</tr>
<tr>
<td>PC connection</td>
<td>USB TYPE A connector x 1 for touch panel</td>
<td></td>
</tr>
<tr>
<td>Serial In</td>
<td>RS-232C compliant</td>
<td></td>
</tr>
<tr>
<td>Audio In</td>
<td>φ3.5 mm Stereo mini-jack</td>
<td></td>
</tr>
<tr>
<td><strong>Audio</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>External speaker</td>
<td>10 W</td>
<td></td>
</tr>
<tr>
<td><strong>Electrical</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power requirements</td>
<td>100 V AC, 50/60 Hz, 220~240 V AC, 50/60 Hz</td>
<td></td>
</tr>
<tr>
<td><strong>Power consumption</strong></td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td><strong>Power off-condition</strong></td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td><strong>Dimensions (W x H x D)</strong></td>
<td>TBD</td>
<td>1,489 x 867 x 87 mm (58.6” x 34.1” x 3.4” excluding handle)</td>
</tr>
<tr>
<td>Bezel width</td>
<td>TBD</td>
<td>31 mm (1.22&quot;)</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td><strong>Protective glass</strong></td>
<td>Thickness: Approx. 4 mm (0.16&quot;) / Anti-glare</td>
<td></td>
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<tr>
<td><strong>Cabinet material/color</strong></td>
<td>Metal/Black</td>
<td>Metal/Black</td>
</tr>
<tr>
<td><strong>Wall-hanging pitch</strong></td>
<td>VESA compliant</td>
<td>VESA compliant: 400 x 400 mm (15.8” x 15.8&quot;)</td>
</tr>
<tr>
<td><strong>Installation orientation</strong></td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td><strong>Installation angle</strong></td>
<td>TBD</td>
<td></td>
</tr>
<tr>
<td><strong>Operating environment</strong></td>
<td>Temperature: 0 °C to 40 °C (32 °F to 104 °F) [for up to 1,400 m altitude] / 0 °C to 35 °C (32 °F to 95 °F) [for between 1,400 m and 2,800 m altitude], Humidity: 20 % to 80 % (Non-condensation)</td>
<td></td>
</tr>
</tbody>
</table>

### Optional Accessories
- TBD

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YouTube – [www.youtube.com/PanasonicProDisplay](http://www.youtube.com/PanasonicProDisplay)

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BQE1FE1PRE1 Printed in Japan.

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