Panasonic
ideas for life

Long-Lasting
Brightness

Market Forecast

<table>
<thead>
<tr>
<th>Year</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2010</td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td></td>
</tr>
<tr>
<td>2014</td>
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</tr>
</tbody>
</table>

LCD Projectors
With their outstanding flexibility, PT-F200 series projectors make ideal replacements for existing ceiling-mounted systems. They require little maintenance after installation, so total cost of ownership is low.

A Bright Choice for New Installations and Replacement Use

Auto Rolling Filter (ARF) and Anti-Dust Design
A Micro Cut Filter, a high-efficiency electrostatic filter, with superior dust-collecting performance combines with Panasonic’s original Auto Rolling Filter and anti-dust design to minimize brightness loss due to dust accumulation. The projector automatically detects when dust accumulates on the high-efficiency electrostatic filter and impairs performance. The affected section of the filter is wound into the casing, so the filter maintains its dust-catching capability. In developing the anti-dust design, Panasonic totally re-engineered the airflow path, from intake to exhaust, to create a cabinet that hermetically seals off the projector interior. This design and the Auto Rolling Filter team up to keep the air inside the projector dust-free at all times.

ADVANCED TECHNOLOGIES THAT MAINTAIN HIGH BRIGHTNESS OVER A LONGER SERVICE LIFE

Size of particles

<table>
<thead>
<tr>
<th>Size of Particles</th>
<th>Width (µm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dust</td>
<td>Up to 0.25</td>
</tr>
<tr>
<td>Dead mite</td>
<td>25–50</td>
</tr>
<tr>
<td>Pollen</td>
<td>1</td>
</tr>
<tr>
<td>Mould</td>
<td>2.5–20</td>
</tr>
<tr>
<td>Bacteria</td>
<td>0.5</td>
</tr>
<tr>
<td>Virus</td>
<td>0.05</td>
</tr>
<tr>
<td></td>
<td>0.01 up to 0.25</td>
</tr>
</tbody>
</table>
The PT-F200NTU and PT-F200U are high-performance LCD projectors designed for use in fixed installations. Each model combines Panasonic’s original Auto Rolling Filter with an original lamp drive system to deliver crisp, bright images over extended periods of time and enable a 5,000-hour*1 lamp replacement cycle. Each also offers outstanding installation flexibility, with 2x zoom lens, lens shift and wireless/wired LAN*2 functions that accommodate everything from permanent ceiling-mounted use to simple placement on a shelf. Whether you’re looking to install a new system or considering a replacement, Panasonic answers the call for projectors that provide long-lasting brightness, simple maintenance, and easy, casual use even in fixed installations.

*1 The value given above does not imply a guaranteed amount of time. The value may vary considerably depending on usage conditions.

*2 The PT-F200NTU only.
Original Lamp Drive System for Optimal Lamp Performance

Lamps used in a projector require much higher precision than ordinary household lamps. Panasonic employs a number of new technologies—including an original lamp drive system—that help maintain optimal lamp performance for longer-lasting brightness. This has resulted in a 5,000-hour* lamp replacement cycle.

* The value given above does not imply a guaranteed amount of time. The value may vary considerably depending on usage conditions.

Daylight View 4 Technology: Remarkable Detail with Enhanced Perception of Brightness and Contrast*

The PT-F200 series feature Panasonic’s Daylight View 4 technology. Sharp edges are achieved with the new “Edge Enhancer Control” and “Gamma Curve Control.” Remarkable detail is provided and perceived brightness and contrast are enhanced, so images appear crisp, vivid, 3-dimensional and easy to see even in brightly lit rooms. Daylight View 4 also includes a built-in ambient light sensor that automatically detects room brightness and adjusts operation accordingly. * There is no actual change in the rated brightness or contrast ratio.

Simulated image with Daylight View 4 turned off. Overall contrast appears lower, and images in dark areas are blackened.

Simulated image with Daylight View 4 turned on. Detail, depth, brightness and contrast over the entire image are enhanced.

Wired LAN: Web Browser Control/Monitoring, E-Mail Message Alert (PT-F200NTU)

Anybody can operate the PT-F200NTU by remote control or monitor its status over a LAN network, because it is all done using the computer’s familiar web browser. Furthermore, the projector sends an e-mail message to notify the operator when an error has occurred, or a lamp needs to be replaced.

PJLink™ compatibility (PT-F200NTU)

The LAN terminals support PJLink™ class 1 connection. Control with the same specifications is also possible when used in a multi-projector system with projectors of another brand.

Direct Power Off

Because the cooling fan keeps operating until the lamp is cooled, you can turn off the room’s main power without waiting for the projector to cool down.

Easy Lamp Replacement from the Rear

For easier maintenance, you can replace the lamp from the rear. The lamp is easily replaced even after the projector is installed on the ceiling.

CONVENIENT FEATURES FOR FIXED INSTALLATION

Wide 2x Zoom and Horizontal/Vertical Lens Shift Give You More Installation Flexibility

Each can project a 120-inch image (diagonal) from any distance between 11.8 feet (3.6 m) and 23.6 feet (7.2 m). In new installations, this lets you accommodate a wide range of room sizes and shapes. And when replacing existing projectors, the new 2x zoom greatly expands your installation flexibility.
Abundant connection terminals
Designed for versatility, each projector comes equipped with a host of connection terminals. The RS-232C specifications are the same as in previous Panasonic models, so replacement is quick and easy.

Easy-to-Use Remote Control with Laser Pointer
The supplied remote control features a number of wireless projection controls, including Microsoft® PowerPoint® page up/down capability.* The control range and distance have been extended, and the buttons are now larger and easier to use.

Virtual Remote Control
The same graphics used on the projector’s remote control can be displayed on the PC screen. This makes it easy to operate the projector right from the PC, without having to use the remote control.

Easy Wireless Projection from Multiple PCs
With the PT-F200NTU’s wireless capability, you don’t need cables to connect a PC. That means it’s easy to bring in a laptop (with a wireless LAN function) and deliver a smooth, hassle-free presenta-

Wireless Manager Control Panel (Launcher)
To begin wireless projection, simply use the control panel (launcher) displayed in the PC window.

Other Valuable Features
- Built-in closed caption decoder: Displays subtitles onto the projected screen without the need for any additional device.
- Anti-theft features: Security anchor, user password, control panel lock and text superimposing
- HDTV compatibility
- Full compatibility with sRGB color space for accurate color reproduction (in natural mode)
- Picture mode selection (standard/dynamic/natural)
- Blackboard mode allows you to project images onto an ordinary classroom or conference room blackboard
- Shutter function for image/sound muting
- Selectable 17-language onscreen menu

Ecology-Conscious Design
Panasonic works from every angle to minimize environmental impact in the product design, production and delivery processes, and in the performance of the product itself over its life cycle. The PT-F200 Series reflects the following ecological considerations.
- Lead-free solder is used to mount components to the printed circuit boards.
- No halogenated flame retardants are used in the cabinet.
- No styrofoam is used in the packing materials.
- Lead-free glass is used for the lens.
- The packing case and operating manual are made from recycled paper.

* For the PT-F200NTU only.
Specifications

**Model**
PT-F200NTU

**Power supply**
100–240 V ac, 50/60 Hz

**Power consumption**
330 W (Approx. 4.5 W in standby mode with fan stopped)

**LCD panel**
Panel size: 0.7 (17.78 mm) diagonal (4:3 aspect ratio)
Display method: Transparent LCD panel (x 3, R/G/B)

**Drive method**
Active matrix

**Pixel configuration**
768 x 1,024 (x 256 x 768 x 3) total of 3,255,296 pixels

**Lens**
Manual zoom (11 to 2.6), manual focus, F 1.7 to 2.6, 121.8 to 43.0 mm

**Projection size**
330 inches (638 to 780 mm) diagonally (4:3 aspect ratio)

**Brightness**
Full color (16,777,216 colors)
3,500 lumens

**Center-to-corner uniformity**
80%

**Contrast ratio**
400:1 (full on/full off) *2

**Resolution (RGB)**
1,024 x 768 pixels

**Scanning frequency**
RGB: Horizontal, 15 to 91 kHz, Vertical, 50 to 85 Hz
YPbPr: 480 (525): 15.75 kHz, 60 Hz
576 (625): 15.63 kHz, 50 Hz
480 (525): 31.3 Hz, 60 Hz
576 (625): 31.25 Hz, 50 Hz
720/60 (720/60p): 45 kHz, 60 Hz
720/50 (576/50p): 37.5 kHz, 50 Hz
1080/60 (1125/60p): 43.75 kHz, 60 Hz
1080/50 (1125/50p): 26.25 kHz, 50 Hz

**S-Video/Video**
NTSC, NTSC 4.43, PAL-M, PAL-N: 15.7 kHz, 50 Hz
PAL, SECAM: 15.63 kHz, 50 Hz

**Terminals**
Built-in speakers: 4 cm (round), x 1, 3.0 W (monaural) output power

**Power supply**
Operation range

**Operation environment**
Temperature: 5°C to 35°C (41°F to 95°F), 20% to 80% (no condensation)
Humidity: 20% to 80% (no condensation)

**Power cord length**
2 m (6.6 ft)

**Cabinet material**
Molded plastic (PC/ABS)

**Dimensions (W x H x D)**
432 x 124.5 x 219 mm (17 x 4.9 x 8.6 in) *

**Weight**
6.2 kg (13.7 lbs)

**Remote**
Remote control with 2 batteries (AA x 2)

**Lamp**
250 W UHM™ lamp
203 W UHM™ lamp
230 W (Approx. 3.0 W in standby mode with fan stopped)
200 W UHM™ lamp
235 W (Approx. 4.5 W in standby mode with fan stopped)

**LAN**
IEEE802.11b/g compatible (built-in wireless LAN system or external IEEE802.11b/g LAN card must be installed and running normally)

**Audio**
Audio output: 4 cm (round), x 1, 3.0 W (monaural) output power

**Drive method**
Active matrix

**Display method**
319 dots x 1,024 x 3, total of 2,359,296 pixels

**Panel size**
786,432 (1,024 x 768) x 3, total of 2,359,296 pixels

**Projection Distance (4:3)**

<table>
<thead>
<tr>
<th>Projector size (diagonal)</th>
<th>Projector size (L)</th>
<th>Min (width)</th>
<th>Max (telephoto)</th>
<th>Height from the edge of screen to center of lens (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.84 m / 33”</td>
<td>0.8 m / 32”</td>
<td>1.9 m / 6.4</td>
<td>0.5 m / 2.0</td>
<td></td>
</tr>
<tr>
<td>1.2 m / 47”</td>
<td>1.2 m / 46”</td>
<td>2 m / 7.8</td>
<td>0.3 m / 1.0</td>
<td></td>
</tr>
<tr>
<td>1.52 m / 60”</td>
<td>1.6 m / 62”</td>
<td>3.6 m / 11.7</td>
<td>0.4 m / 1.5</td>
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</tr>
<tr>
<td>2.03 m / 80”</td>
<td>2.4 m / 78”</td>
<td>4.8 m / 15.7</td>
<td>0.6 m / 2.0</td>
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<tr>
<td>2.54 m / 100”</td>
<td>3.0 m / 98”</td>
<td>6.0 m / 19.7</td>
<td>0.7 m / 2.5</td>
<td></td>
</tr>
<tr>
<td>3.05 m / 120”</td>
<td>3.6 m / 118”</td>
<td>7.2 m / 23.7</td>
<td>0.9 m / 3.0</td>
<td></td>
</tr>
<tr>
<td>4.5 m / 182”</td>
<td>4.5 m / 182”</td>
<td>9.6 m / 30.9</td>
<td>1.2 m / 3.7</td>
<td></td>
</tr>
<tr>
<td>5.08 m / 200”</td>
<td>6.0 m / 198”</td>
<td>12 m / 39.6</td>
<td>1.5 m / 5.0</td>
<td></td>
</tr>
<tr>
<td>7.62 m / 300”</td>
<td>9.1 m / 29.8</td>
<td>18.1 m / 59.5</td>
<td>2.3 m / 7.5</td>
<td></td>
</tr>
</tbody>
</table>

**To use wireless functions, a PC is required that meets the conditions given below:**

- Macbook and MacBook Pro with the Intel Core 2 Duo processor only.

**NOTE:** Some functions are not available with Windows Vista™ and Mac OS X.

**Web browser:**
Windows® / Internet Explorer 6.0 or later, or Netscape Communicator 7.0 or later. Mac OS: Safari 2.0 or later
**CPU:**
Windows®/Intel Pentium III or higher, or other compatible processor (1 GHz or higher is recommended).
Mac OS X 10.4, 800-MHz or higher PowerPC G4, or 1.8-GHz or higher Intel® Core™ processor.

**Memory:**
256 MB or more (512 MB or more is recommended for Mac)
Free hard disk space: 60 MB or more
**CD-ROM drive:**
CD-ROM drive or DVD drive
**Wireless LAN:**
IEEE 802.11b/g compatible (built-in wireless LAN system or external IEEE 802.11b/g LAN card must be installed and running normally)

**NOTE:** Some IEEE 802.11b/g wireless LAN may not allow connection to the projector.

**Wired LAN connector:**
RJ-45

**NOTE:** Use Category 5e (or higher) cables for 100BASE-T connection.

**NOTES ON USE**
- The projector uses a high-voltage mercury lamp that contains high internal pressure. This lamp may break, emitting a large sound, or fail to illuminate, due to impact or extended use. The length of time that it takes for the lamp to break or fail to illuminate varies greatly depending on individual lamp characteristics and usage conditions.
- The brightness of the lamp will gradually decrease with use.
- The projector includes consumable parts. The frequency of replacement for the lamp and other consumable parts will increase if the projector is subjected to extended, continuous use. For details, please consult a service representative.

**Weights and dimensions shown are approximate. Specifications are subject to change without notice. Product availability differs depending on region and country.**

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