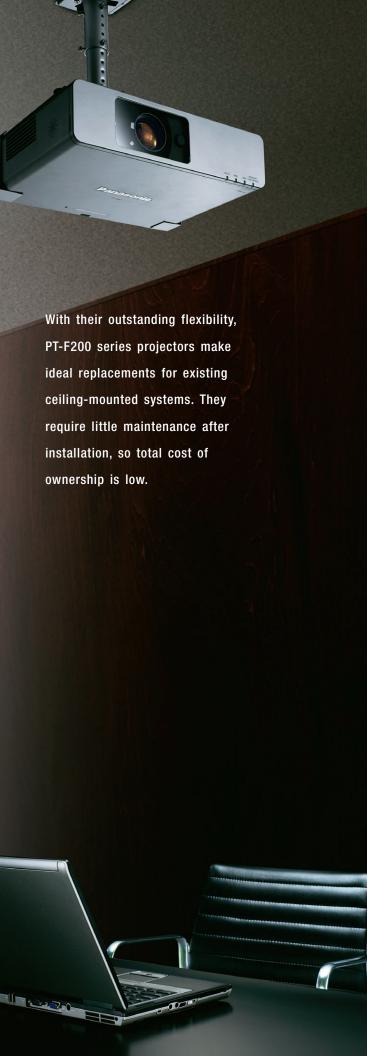
Panasonic
ideas for life

PT-**F200NT**U PT**-F200**U

LCD Projector





A Bright Choice for New Installations and Replacement Use

Advanced Technologies that Maintain High Brightness over a Longer Service Life

Auto Rolling Filter (ARF) and Anti-Dust Design

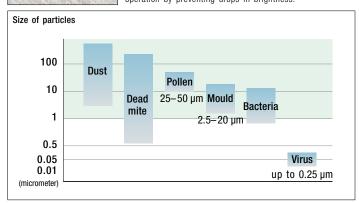
dust-free at all times.

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



Micro Cut Filter

A high-efficiency electrostatic filter in the air intake section traps dust particles that are 1 microns or larger. By capturing approximately 7 times as much dust as our previous filters, it guards against optical blocks and reduces the penetration of dust into the interior to provide stable operation by preventing drops in brightness.



The PT-F200NTU and PT-F200U are highperformance 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.











Original Lamp Drive System for Optimal Lamp Performance

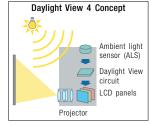
Lamps used in a projector require much higher precision than ordinary household lamps. Panasonic employs a number of new technologies—including an original lamp drive system—that help maintain optimal lamp performance for longer-lasting brightness. This has resulted in a 5.000-hour* lamp replacement 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



Daylight

View

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

off. Overall contrast

appears lower, and

are blackened.

images in dark areas

Daylight View 4 turned





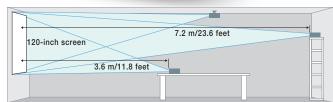
Simulated image with Daylight View 4 turned on. Detail, depth, brightness and contrast over the entire image are enhanced



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 installa-



tions, 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.

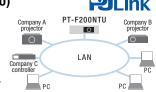
Wired LAN: Web Browser Control/Monitoring, E-Mail Message Alert (PT-F200NTU)

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.





The front panel covers the lens to keep it clean from dust, and conceals the controls to prevent accidental misoperation. It can be opened for easy access to controls even after the projector is installed on the ceiling

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.

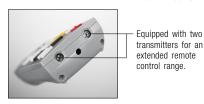


The PT-F200NTU features a LAN connector terminal.

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.

* For the PT-F200NTU only





Wireless Functions Add Versatility (PT-F200NTU)

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.



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 con-

- · 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.

tion. You can make the settings for wireless connection quickly and easily using Wireless Manager ME 4.5 software. When the presentation is finished, Wireless Manager restores the PC to its

previous LAN settings, so the PC is ready to reconnect to your LAN. Functions include Live mode and Multi-Live mode. In Live mode, the image projected is identical to the image seen on the PC screen. In Multi-Live mode, you can wirelessly connect with multiple PCs.



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

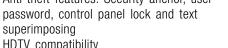


A Wide Variety of Wireless Functions

The PT-F200NTU provides a host of convenient wireless functions, including Wireless Prompter (Secondary Display Transmission), selective area transmission and a 16-window index style that lets you project images from up to 16 PCs at the same time. Wireless transmission is possible from one PC to a maximum of eight projectors at a time.

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



- HDTV compatibility
- Full compatibility with sRGB color space for accurate color reproduction (in natu-



Security anchor

- 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

PT-F200U

Specifications			
Model	PT-F200NTU	PT-F200U	
Power supply	100-240 V AC, 50/60 Hz 330 W (Approx. 4.5 W in standby mode with fan stopped)		
Power consumption LCD panel	330 W (Approx. 4.5 W III Standby III	ode with fair stopped)	
Panel size	0.7" (17.78 mm) diagonal (4:3 aspec	ct ratio)	
Display method	Transparent LCD panel (x 3, R/G/B)		
Drive method	Active matrix		
Pixels	786,432 (1,024 x 768) x 3, total of	2,359,296 pixels	
Pixel configuration Lens	Stripe Manual zoom (1:1–1:2), manual foci	IS F 1 7-2 6 f 21 6-43 0 mm	
Lamp	250 W UHM™ lamp	33, 1 1.7 2.0, 1 21.0 40.0 11111	
Projection size	33-300 inches/838-7,620 mm diag	gonally (4:3 aspect ratio)	
Colors	Full color (16,777,216 colors)		
Brightness*1	3,500 lumens		
Center-to-corner uniformity*1	80%		
Contrast ratio*1	400:1 (full on/full off)		
Resolution (RGB)	1,024 x 768 pixels*2		
Scanning frequency			
RGB	Horizontal: 15-91 kHz, Vertical: 50-	-85 Hz	
YPBPR	480i (525i): fH 15.75 kHz; fV 60 Hz 576i (625i): fH 15.63 kHz; fV 50 Hz		
	480p (525p): fit 31.5 kHz; fv 60 Hz 576p (625p): fit 31.25 kHz; fv 50 Hz 720/60p (750/60p): fit 45 kHz; fv 60 Hz 720/50p (750/50p): fit 37.5 kHz; fv 50 Hz		
	1080/60i (1125/60i): fH 33.75 kHz; 1 1080/50i (1125/50i): fH 28.125 kHz;		
S-Video/Video	NTSC, NTSC4.43, PAL-M, PAL60: fH		
	PAL, SECAM, PAL-N: fn 15.63 kHz; f		
Optical axis shift*3	Vertical: ±50%, horizontal: ±32%		
Keystone correction range	Vertical: ±30°		
On-screen menu	17 languages: English, French, German, Spanish, Italian, Korean, Russian, Chinese, Japanese, Swedish, Norwegian, Danish,		
	Russian, Chinese, Japanese, Swedish, Norwegian, Danish, Portuguese, Polish, Hungarian, Czech, and Thai		
Installation	Front/rear ceiling/desk (menu select		
Built-in speakers	4 cm (round), x 1, 3.0 W (monaural)	output power	
Terminals	D 1 11D 15 1 1		
COMPUTER 1 IN	D-sub HD 15-pin x 1 D-sub HD 15-pin x 1		
COMPUTER 2 IN/ COMPUTER 1 OUT	(input/output selectable using on-sc	reen menu)	
COMPONENT IN	RCA pin x 3	,	
VIDEO IN	RCA pin x 1		
S-VIDEO IN	Mini DIN 4-pin x 1		
AUDIO IN (COMPUTER 1) AUDIO IN (COMPUTER 2)	M3 (stereo) x 1 M3 (stereo) x 1		
AUDIO IN (COMPONENT/	WIO (Storoo) X 1		
VIDEO/S-VIDEO)	RCA pin (L, R) x 1		
AUDIO OUT	M3 (stereo) x 1 (variable)		
SERIAL	D-sub 9-pin x 1 (RS-232C)		
REMOTE Lan	D-sub 9-pin x 1 RJ-45 x 1, 10BASE-T/100BASE-TX/		
LAN	1000BASE-T	-	
Power cord length	2 m (6'7')	<u> </u>	
Cabinet material	Molded plastic (PC+ABS)		
Dimensions (W x H x D)*4	432 x 124.5 x 319 mm (17" x 4-29	/32 x 12-9/16)	
Weight Operating environment	6.2 kg (13.7 lbs.)		
Temperature	0°-40°C (32°-104°F)		
Humidity	20%-80% (no condensation)		
Wireless LAN			
Standard	IEEE802.11b/g	_	
Operation range *5	Approx. 30 m (98'5") WPA-PSK (TKIP/AES), 128/64-bit WEF	-	
Infrastructure mode Ad-hoc mode	128/64-bit WEP	+	
Wireless Remote Control Uni	t	1	
Power supply	3 V DC (AA battery x 2)		
Operation range*5	Approx. 10 m (32.8 feet) when oper	ated from directly in front of	
Dimensions (W v U v D)	the signal receptor 48 v 162 v 24 5 mm (1 7/9" v 6 12/22" v 21/22")		
Dimensions (W x H x D) Weight	48 x 163 x 24.5 mm (1-7/8" x 6-13/32" x 31/32") 117 g (4.2 oz) (including batteries)		
Supplied Accessories	Power cord		
••	Power cord secure lock		
	Wireless remote control		
	Batteries for remote control		
	 Safety wire rope Wireless Manager ME 4.5 (CD-ROM) 	ı	

- *1: Measurement, measuring conditions, and method of notation all comply with ISO 21118 international standards.
- *2: Input signals that exceed this resolution will be converted to 1,024 x 768 pixels.
 *3: Shift range is limited during simultaneous horizontal and vertical shifting.
 *4: Including protruding parts.
 *5: Operation range differs depending on the environment.

Panasonic Projector Systems Company, Unit of Panasonic Corporation of North America www.panasonic.com/projectors

Headquarters

3 Panasonic Way, 4B-9 Secaucus, NJ 07094 888-411-1996

Panasonic Canada Inc. 5770 Ambler Drive Mississauga, Ontario Canada I 4W 2T3 905 624 5010

Options









lamp unit ET-LAF100

Replacement filter unit ET-RFF100

Ceiling mount bracket for high ceilings ET-PKF100H

Ceiling mount bracket for low ceilings ET-PKF100S

Projection Distance (4:3)

Project size	Projection distance (L)		Height from the edge of screen
(diagonal)	Min (wide)	Max (telephoto)	to center of lens (H)
0.84 m / 33"	-/	1.9 m / 6.4'	0 - 0.25 m / 0 - 0.8'
1.02 m / 40"	1.2 m / 3.8'	2.4 m / 7.8'	0 - 0.30 m / 0 - 1.0'
1.52 m / 60"	1.8 m / 5.8′	3.6 m / 11.7	0 - 0.46 m / 0 - 1.5'
2.03 m / 80"	2.4 m / 7.8′	4.8 m / 15.7	0 - 0.61 m / 0 - 2.0'
2.54 m / 100"	3.0 m / 9.8'	6.0 m / 19.7	0 - 0.76 m / 0 - 2.5'
3.05 m / 120"	3.6 m / 11.8′	7.2 m / 23.7	0 - 0.91 m / 0 - 3.0'
3.81 m / 150"	4.5 m / 14.8′	9.0 m / 29.6'	0 - 1.14 m / 0 - 3.7'
5.08 m / 200"	6.0 m / 19.8'	12.1 m / 39.6'	0 - 1.52 m / 0 - 5.0'
7.62 m / 300"	9.1 m / 29.8'	18.1 m / 59.5'	0 - 2.29 m / 0 - 7.5'

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

Microsoft® Windows® 2000 Professional, Windows® XP 0S: Professional, Windows® XP Home Edition, Windows Vista®,

Apple Mac OS X 10.4 (Tiger) and OS X 10.5* (Leopard) * MacBook and MacBook Pro with the Intel Core 2 Duo processor only

NOTE: Some functions are not available with Windows Vista $^{\mathsf{TM}}$ 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 Windows®: Intel® Pentium® III or higher, or other compatible CPU:

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.

Mac OS X 10.5: MacBook and MacBook Pro with the Intel® Core™ 2 Duo processor only.

256 MB or more (512 MB or more is recommended for Mac) Memory: Free hard disk space: 60 MB or more

CD-ROM drive: CD-ROM drive or DVD drive

IEEE 802.11b/g compatible (built-in wireless LAN system or Wireless LAN:

external IEEE 802.11b/g LAN card must be installed and running

normally.)

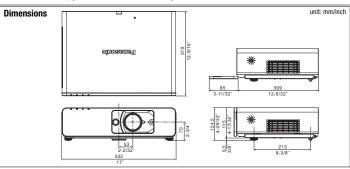
NOTE: Some IEEE 802.11g/b wireless LAN may not allow connection to the projector.

Wired LAN connector: RJ-45

NOTE: Use Category 5e (or higher) cables for 1000BASE-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.



Projectors Global Web Site: http://panasonic.co.jp/pavc/global/projector Please contact Panasonic or your dealer for a demonstration.









Weights and dimensions shown are approximate. Specifications are subject to change without notice. Product availability differs depending on region and country. This product may be subject to export control regulations. UHM is a trademark of Matsushita Electric industrial Co., Ltd. Intel and Pentium are registered trademarks of material Corporation in Intel Corporation in Intel States and/or other countries. All other trademarks are the property of their respective trademark owners. Projection images simulated. (C) 2006 Panasonic Projector Systems Company is a Unit Company of Panasonic Croporation of North America. All rights reserved. (C) 2006 Matsushite letter industrial Co., Ltd. All rights reserved.