

F300 Series - Outline



	PT-FW300NT	PT-FW300	PT-F300NT	PT-F300		
Resolution	WXGA (12	280 x800)	XGA (1024 x 768)			
Brightness	3500) lm	4000 lm			
Daylight View	Daylight View 5					
Contrast	600:1					
Air Filter	Auto Clearning Filter (ACF)					
Lamp Replacement Cycle	5,000 hours					
Wired LAN (RJ45)	YES					
Wireless LAN	YES	NO	YES	NO		

Performance You Can Count On

1. High Durability for long lasting brightness

- New inorganic materials for LCD panels & polarizers.
- New Auto Cleaning Filter (ACF) * to keep dust out.
- Common lamp for all F series

2. Excellent Basic Features

- Brightness enhancement.4000lm(PT-F300NT/F300) & 3500lm(PT-FW300NT/FW300)
- New Daylight View 5 technology gives better white levels
- Wide aspect-ratio resolution with Side By Side function(PT-FW300NT/FW300)

3. Easy Installation and Maintenance

- Wide 2x optical zoom and H/V lens shift for flexible installation.
- Wired LAN: Web browser control/monitoring

F300 Series Key Features











Do you know what this is?

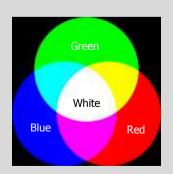
After heavy use of LCD projectors, picture image deteriorates and becomes "Yellowish"*.

After using LCD projectors for a long time, this sometimes happens when trying to project a "white" image.

The blue polarizer deteriorates the fastest.

This inhibits the passage of blue light.

White – Blue = Yellowish Image

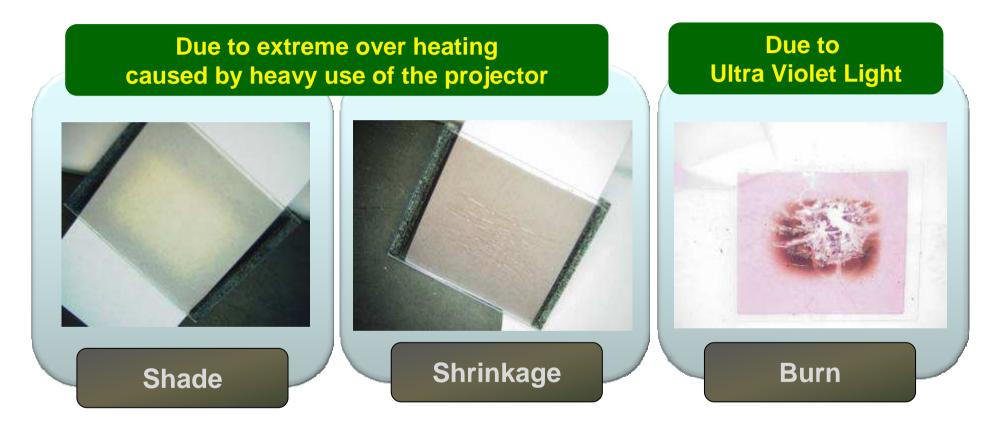


*this is an extreme example



Long Lasting Brightness - New materials

Reasons for picture deterioration over time



Examples of polarizer deterioration

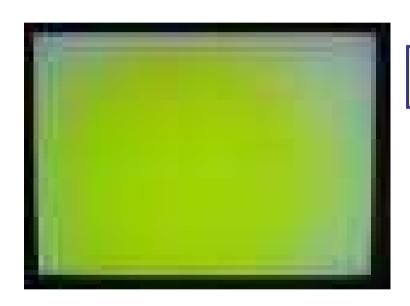
These sample pictures are taken from actual tests.



Long Lasting Brightness - New materials

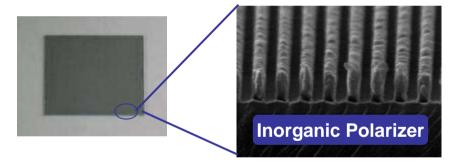


Newly designed LCD Panels & Polarizers extend the life time of the optical block!



New Inorganic Polarizer :

Metal Wire Grid



Deterioration of the Blue Polarizer causes the "Yellowish" Picture Images



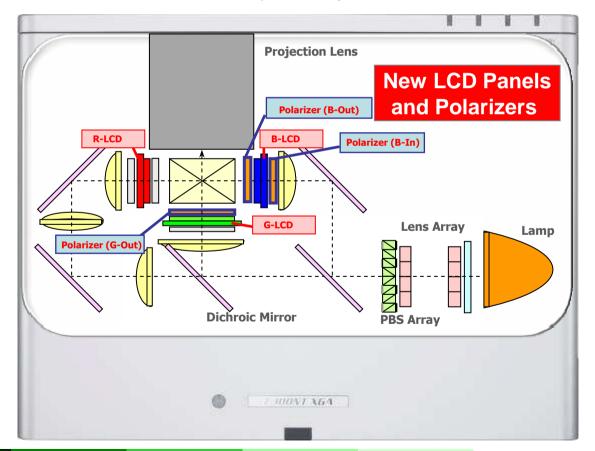
Long Lasting Brightness -The Optical block



Now using new Inorganic materials for LCD Panels & Polarizers

Consists of LCD Panels

- 1) 3x LCD Panels for "Red" "Green" "Blue"
- 2) Each panel has 2x Polarizer : Total 6x Polarizer

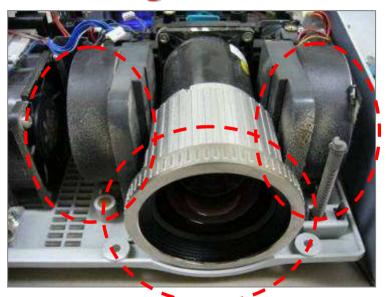


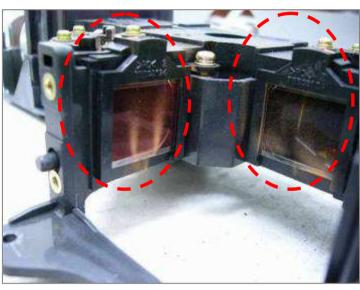




Long Lasting Brightness - Dust effect

Dust effects brightness, picture quality and causes over heating.











(Real Life Example) Over 50% brightness deterioration after 500hrs



Long Lasting Brightness - Dust Resistance

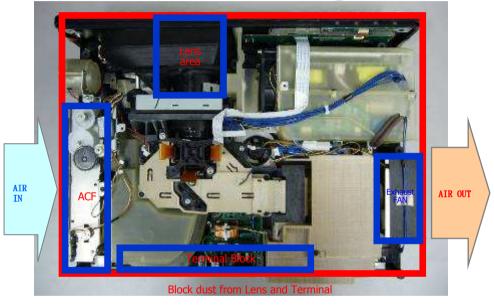
Dust Resistant Technology

ACF (Auto Cleaning Filter)*



Automatically refreshes filter material to prevent dust from entering

Sealed design



Designed to shut out dust

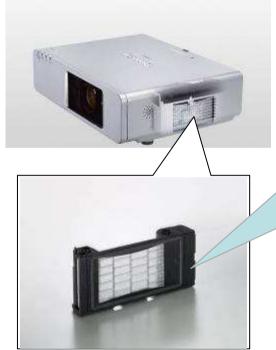


Long Lasting Brightness -ACF

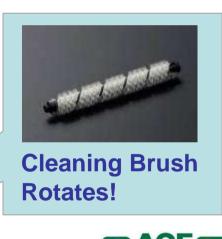
NEW

- No need to climb up to the ceiling to replace the filter
- New Auto Cleaning Filter (ACF) has a typical replacement cycle of over 10,000 hours









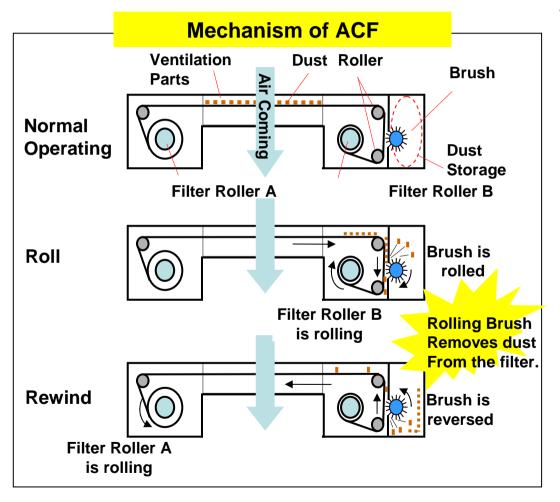


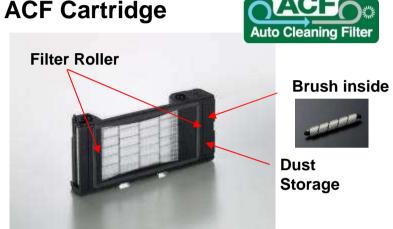
•Actual operation time changes depending on dust environment.

Lasting Brightness -ACF mechanism

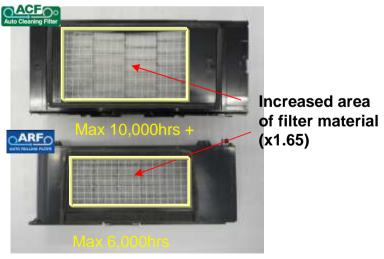
10,000 hours replacement cycle with an additional built-in sensor for auto filter clogging detection.

* The actual life time changes depending on the environment.





ACF & ARF comparison





Customers can use the same spare lamps.

Replacement lamp is the same for all F series. (No need to hold multiple stocks)

F100 series

3200 lumens XGA 3000 lumens WXGA



F200 series

3500 lumens XGA



F300 series

4000 lumens XGA 3500 lumens WXGA





Option model is the same (ET-LAF100)



Also easy to replace them. (no need to take down the projector from the ceiling)





Long Lasting Brightness - Summary

Long Lasting Brightness realized By the following 3 features.

Long Lasting

Easy Replacement

10,000H

Inorganic LCD Panel and polarizers





ACF (Auto Cleaning Filter)





5,000H

Original Lamp Drive System

Common lamp for F series





Panasonic ideas for life

F300 Series Key Features











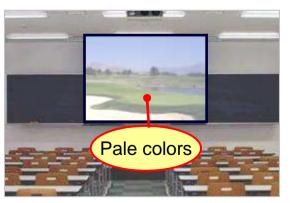
Sharp edges are achieved with the "Edge Enhancer Control" and "Gamma Curve Control".

Lights OFF Dark environment



No need to turn off the lights!

Lights ON Conventional Projector



VS.



Daylight View Technology gives you more Color perception.

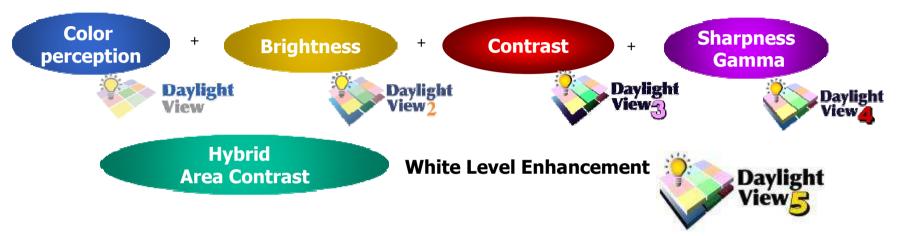
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Excellent Basic Features - Daylight View

NEW

Daylight View 5 function adds white level enhancement to increase visibility in lighted environments.



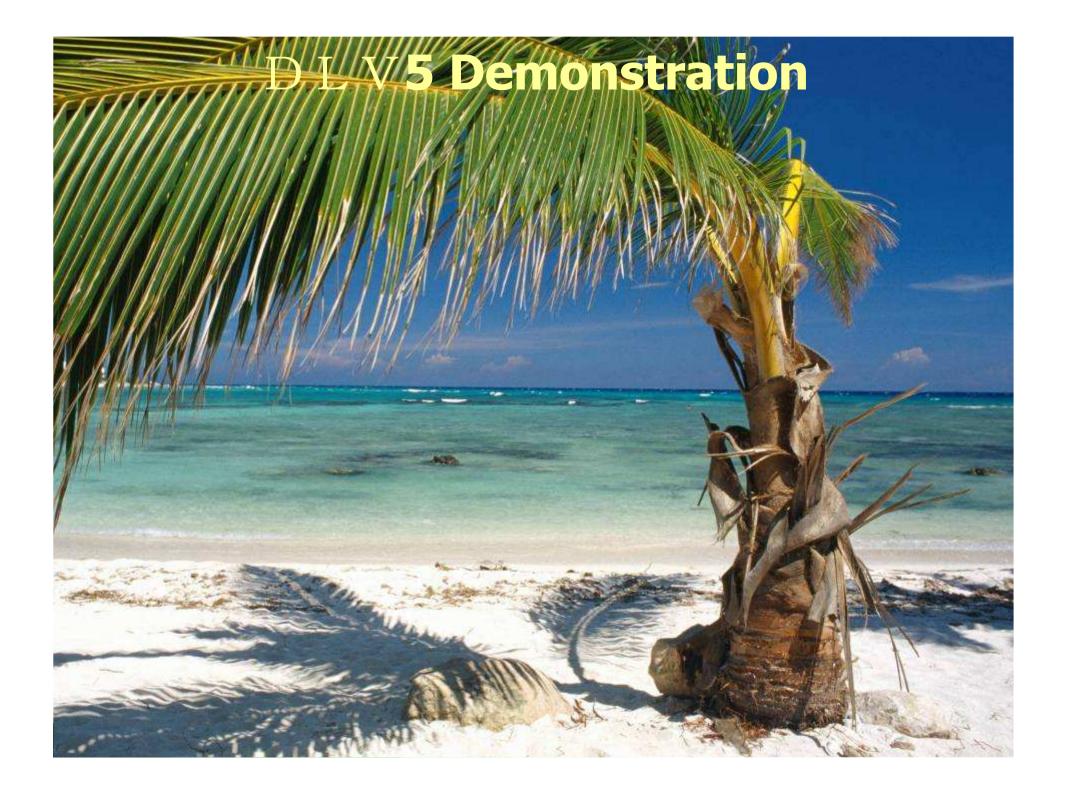






Daylight View 5





Excellent Basic Features -Why Wide?(PT-FW300NT/FW300)

No question about it, WIDE has now become the standard aspect for all things AV.

Ever growing Market Requirements

- Personal Computers are now majority WIDE
- More and more presentations now including WIDE aspect Moving Pictures.
- Blu-ray is now the de-facto HD movie source.





AVCHD

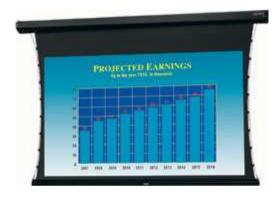






(Reference) Wide model screens also increasing









Excellent Basic Features -Why Wide?(PT-FW300NT/FW300)

Wide aspect enables images to be effectively projected into a larger screen





By projecting a wide source to a 4:3 screen, only 75% of the screen is used

When the ceiling height is limited a wide screen gives a larger picture



Excellent Basic Features -Why Wide?(PT-FW300NT/FW300)

Side By Side Function

WIDE IMAGES FOR A WIDE RANGE OF APPLICATIONS





Wide applications *

PC & PC

PC & Visualizer

PC & Wireless PC

PC & DVD



NO motion picture x 2

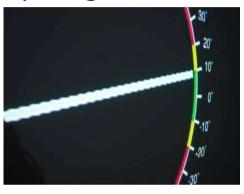


Excellent Basic Features -Picture quality

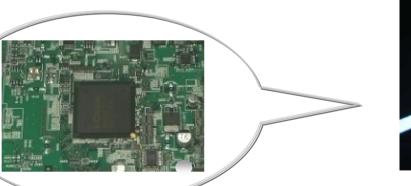
High Picture Quality

NEW

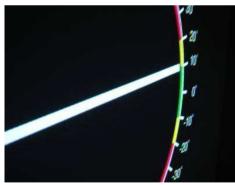
- High performance IP conversion for high quality image.
 1080p input is now also available.



Interlaced image



IP conversion circuit



Progressive image

F300 Series Key Features





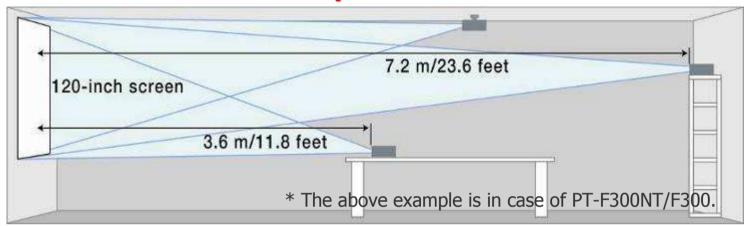




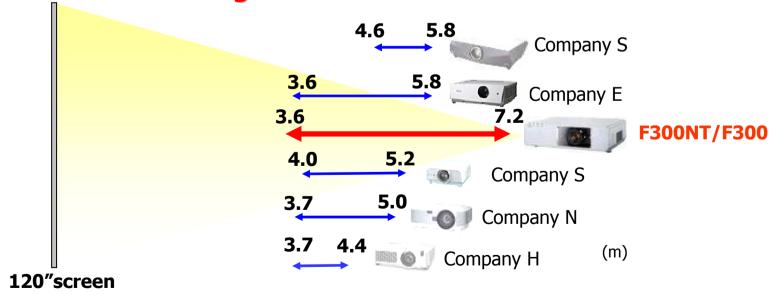


Installation Flexibility -2x zoom Lens shift

•F300 can be installed in various places



•F300 can cover whole range of throw ratios



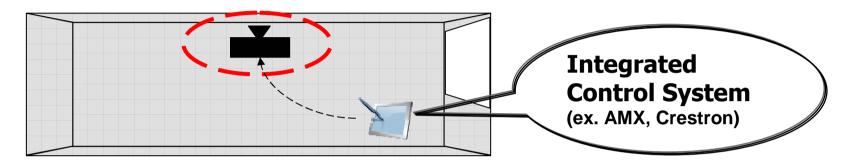
Same mounting position saves cost!

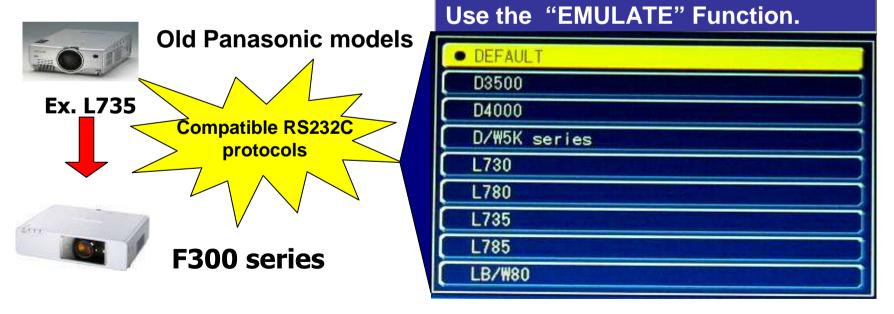


Installation Flexibility - Emulation function



When replacing Panasonic to Panasonic projectors no need to upgrade the RS232C software!

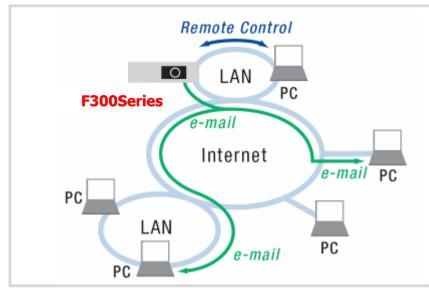




^{*} Choose from the menu the projector you will replace



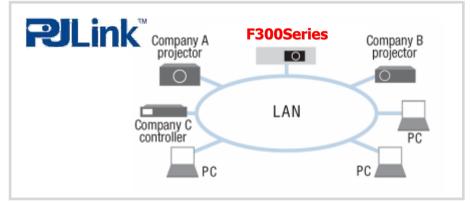
Installation Flexibility -Networking via LAN



• Web browser control • E-mail status transmission







Multi Projector Monitoring & Control Software

Enables the user to control and monitor multiple projectors via LAN. When problem occurs, there will be a notice givien.



RS232C commands via LAN

Now possible to use RS232C commands over a LAN.

- Control multiple projectors via RS232C
- Easier to install LAN cables



Installation Flexibility -Wireless(PT-FW300NT/F300NT)

Wireless Manager ME 5.5







User-friendly Wireless Design

- •Interactivity in the interface
- •To Assign shortcut for optional function
- •Prevent misconnection to other projector with the new "Projector Signal Map"

Projector Signal Map



- Let the user know which projector he/she will use
- Prevent misconnection to other projectors
- * All the network operation can also be used with a wired LAN system.

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Installation Flexibility -Wireless(PT-FW300NT/F300NT)

Selective Area Transmission

Draw randomly on any area and project only that image



Multi Live Mode

Up to 16 PCs can connect at once.













Multiple Projection























Multiple Projection to up to 8 Units



Installation Flexibility -Others

Other Valuable Features

Direct Power Off

Turn off the projector immediately after use! Built in capacitor provides power to cool the internal parts



Security Features

Security Anchor User Password protection & Control Panel Lock Start Up Text Imposing



Easy Operate Remote Control

- ◆2 LED receiver: wider transmission range
- ◆Function Button to assign shortcuts for frequently used 3 functions. (Aspect ratio change, Picture mode selection, Daylight View function)





PT-FW300NT



Installation Flexibility -New interfaces

NEW

Support Various Interfaces



- •LAN(RJ-45) interface for all models
- DVI-D input added
- •1080p input compatibility
- •"Audio Out in Standby mode" added



- You can control speaker systems connected to F300 even in stand-by mode. (Without turning the projector On)
- Use the remote control for volume control



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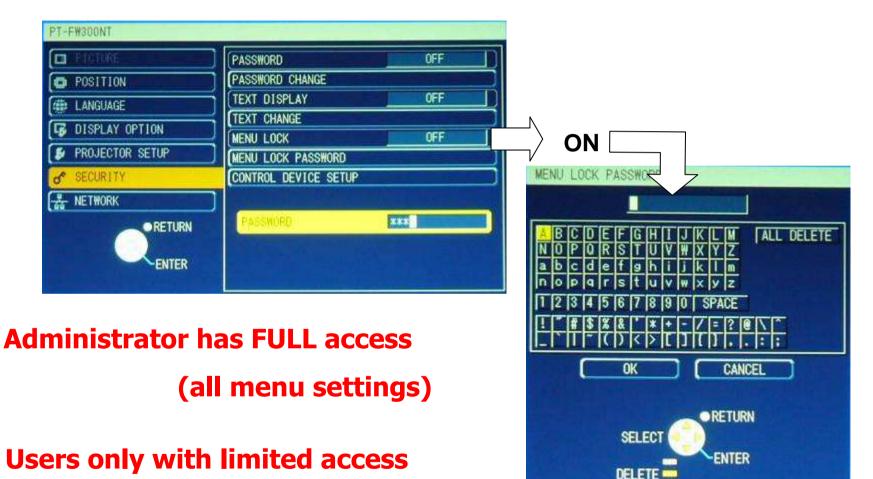


Installation Flexibility - Additional features

Menu Lock function for limited access

(remote controller)





Panasonic ideas for life

Eco Friendly

Panasonic Uses Manufacturing Methods that Minimize the Impact on the Environment

Compliance with the RoHS*
Directive



Highly Advanced Chemical Substance Test Instruments

Test room





Atomic Test Equipment

Test equipment to measure Chromium (Cr)





Molecular Test Equipment

Lenses Contain a Minimal Amount of Lead



All Panasonic projector lenses pass the criteria of the RoHS Directive.

^{*} Restriction of Hazardous Substances (regulation in European Union)

Made in Japan



Panasonic Projectors Provide Customers with Reliability and Stable Operation

Reliability Is Verified from a Variety of Angle

■ Dustproof Test





Dusty environments are simulated for a variety of world locations.

■ Drop Test



Dropping accidents during transportation are reproduced.

■ Earthquake Test



A safety test is conducted by reproducing an earthquake with an intensity of 6 (based on Richter magnitude scale measurements).

■ Lifetime Rrunning Test





The lamp electrodes are analyzed by X-ray.

■ Environmental Testing



Operating tests are conducted in an environment that matches the customer's environment.

(Temperature, humidity, air pressure)

Made in Japan



High-level Production Management is Conducted to Provide High-quality Products

Flexible production with advanced process technologies and cell production





We aim for the highest levels of performance and quality.

Improvements are quickly reflected, based on market opinion







Panasonic Projectors Have Attained ISO 9001 and ISO 14001 Certification

Our product quality and environmental management systems have attained ISO 9001 and ISO 14001 certification. Panasonic's corporate actions reflect this careful attention to quality and the environment, and this includes continuous improvements to our production stance.







Detailed Specifications

		PT-F300NT	PT-F300	PT-FW300NT	PT-FW300		
Resolution		XGA(1024x768)		WXGA(1280x800)			
Brightness		4000 lm		3500 lm			
Air Filter		ACF(10,000h)					
Lamp replace	cement cycle	5000h (ET-LAF100)					
Daylight View		DLV5					
Wired LAN		Yes					
Wireless LA	N	Yes	No	Yes	No		
2x Zoom ler	ns & lens Shift	Yes					
	Computer 1 In	HD D-sub15P					
	Computer 2 In /Computer 1 Out	HD D-sub15P					
	DVI-D In						
	Video/S-Video	RCA pin /Mini Din4P					
Terminals	Audio In	M3,RCA pinx2					
	Audio Out	M3					
	Serial(RS-232C) In	D-sub9P					
	Remote In	D-sub9P					
	LAN	RJ-45					
Dimensions		W 432 x H 128.5 x D 323 mm (17" x 5-1/16" x 12-23/32")					

Thank you very much!



Appendix

Side By Side Compatibility Matrix: NO motion picturex2

				DVI		Computer1		Computer2		Network	
		Video S-Video	Motion picture	Still Image	Motion picture	Still Image	Motion picture	Still Image	Wireless LAN	Wired LAN	
Video			No	No	Yes	No	Yes	No	Yes	Yes	Yes
S-Video		No		No	Yes	No	Yes	No	Yes	Yes	Yes
DVI	Motion picture	No	No			No	Yes	No	Yes	Yes	Yes
	Still Image	Yes	Yes			Yes	Yes	Yes	Yes	Yes	Yes
Comput er1	Motion picture	No	No	No	Yes			No	Yes	Yes	Yes
	Still Image	Yes	Yes	Yes	Yes			Yes	Yes	Yes	Yes
Comput er2	Motion picture	No	No	No	Yes	No	Yes			Yes	Yes
	Still Image	Yes	Yes	Yes	Yes	Yes	Yes			Yes	Yes
Network	Wireless LAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
	Wired LAN	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		