

Panasonic

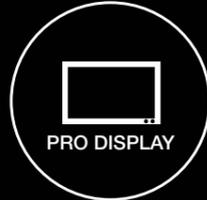
BUSINESS

DIGITAL SIGNAGE SOLUTIONS



Panasonic

BUSINESS



PRO DISPLAY



PROJECTOR



Panasonic Professional Display Global Website
panasonic.net/cns/prodisplays/
Panasonic prodisplays: YouTube channel
www.youtube.com/PanasonicProDisplay



Panasonic Projector Global Website
panasonic.net/cns/projector/
Panasonic projectors: facebook page
www.facebook.com/panasonicprojector
Panasonic projectors: YouTube channel
www.youtube.com/user/PanasonicProjector



Mobile App for Panasonic Visual System Products
panasonic.net/cns/prodisplays/support/mobile_app/

Win at Communication in the Digital Age

Good ideas for digital communication go nowhere without great hardware. Developed to meet the specific demands of enterprises large and small, our state-of-the-art digital displays get your message across with unfailing reliability. Panasonic Signage Solutions offer unbeatable flexibility and stellar performance to make your vision a reality: engineered by professionals, for professionals.



From single displays to multi-screen signage systems, Panasonic leads in simplicity and reliability.

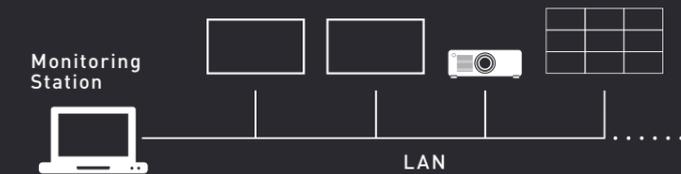
Simple Plug & Play Solutions



Creating a powerful signage display is as easy as plugging in the power cord, inserting a USB memory device, and playing your media. Displays can be installed almost anywhere in portrait or landscape orientation.



Integrated Solutions



Developed for the seamless monitoring and control of up to 2,048 displays simultaneously from a single PC, this free software package simplifies the management of signage networks of any size.



Self-Contained Solutions



Our new AF1 Series has an Android™-based OpenPort PLATFORM® operating system with built-in media player to support a growing family of signage apps. Source-device connection is no longer necessary, and content can be wirelessly updated over the network any time.



Find a display device that best suits your needs

- 01 Transit Centers
- 02 Public Spaces
- 03 Retail Precincts
- 04 Commercial Facilities
- 05 QSR
- 06 Department Stores
- 07 Restaurants and Cafes
- 08 Staging and Events
- 09 Dealerships and Showrooms

Airports

For Simple and Cost-effective Installation

Airports present a tough challenge for professional displays. As well as the ability to communicate information clearly, displays used in high-pressure environments must assure end-to-end system reliability in single- or multi-screen configuration. Selected Panasonic displays answer with a brilliant wide-visibility IPS panel, Failover/Failback Protection for 24/7 operation*, and simple low-cost installation. These displays also meet commercial demands for high picture quality, excellent reliability, and ease of use.

* EF, LFE, and BF Series excepted.



Hotels

Dependability, Versatility, and Economy

Panasonic displays include enhanced features for versatile application in hotels, resorts, and other accommodation facilities. Economical long-term operation and the ability to easily customize display content make these displays well adapted to lobbies, dining halls, and conferencing centers.

Reference Models



General Signage

Where Elegant Form Meets Powerful Functionality

With chic design and shallow depth, Panasonic's slim-bezel displays enhance any retail setting while maximizing every inch of screen space. Paired with free Multi Monitoring & Control Software for PC, these displays are an easily managed solution for attention-grabbing signage.



Multi Monitoring & Control Software
Manage up to 2,048 devices

INTRANET
Monitoring Station
• PC with Multi Monitoring & Control Software



Models compatible with Multi Monitoring & Control Software:
AF1, LF80, LF8, EF1, LFE8, LFV60, LFV6, and BF1 Series.

Reference Models



Indoor

Think Big for High-Impact Signage

Exploit your promotional real estate in stunning 4K or Full HD display resolution. With minimal loss in color-saturation in bright mall lighting, Panasonic's wide selection of reference displays are built to deliver the message with maximum impact. These displays offer marathon endurance in portrait orientation (great for narrow installation spaces) and have toughened protective glass* screens.

* Protective glass featured on LQ70, LF50 (optional), and BF1 Series.

Note: Please refer to specification sheet for installation details.

Reference Models

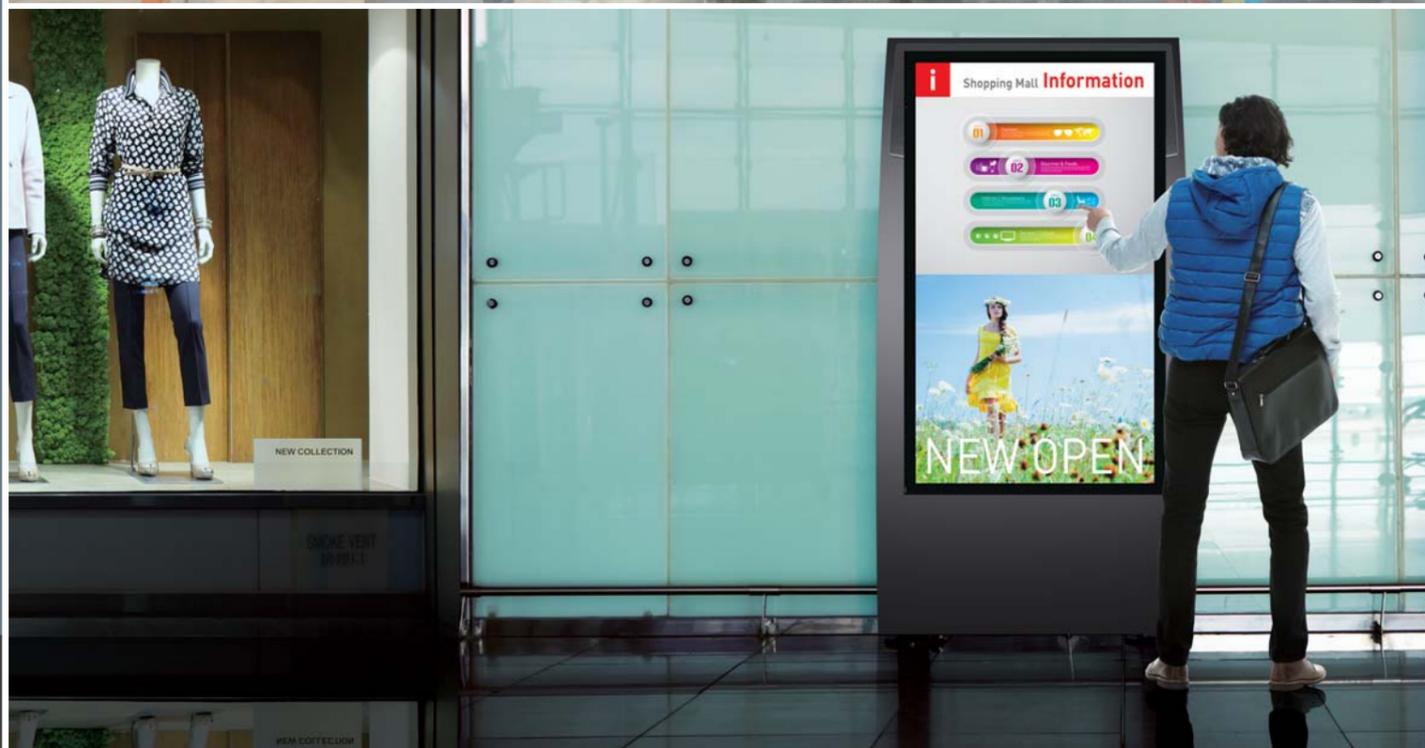


Information Screens

Advanced Touch-Panel For Interactive Communication

The BF1 Series offers unparalleled flexibility and features for interactive public communication, from store guides and maps at shopping malls to interactive content presentation in museums or exhibition spaces. Powered by an appropriate PC application, the Full HD 12-point touch-panel uses familiar gesture controls to grant users quick access to information.

Reference Models



Self-Contained Signage

OpenPort PLATFORM® Power for Stress-free Custom Signage

In large malls, movie theaters, and other commercial facilities, regular signage content updates are a fact of life. This can cause problems when the displays are difficult to access or connect. The AF1 Series is a self-contained media display solution with a powerful SoC, Android™-based OpenPort PLATFORM® operating system, and apps to suit changing needs. Wireless updates and remote control make operation simpler than ever before.



Unique OpenPort PLATFORM® Developed by Panasonic Based on Android™ OS
Together with verified apps created by global alliance partners for custom signage and other roles in business, these adaptive self-contained OpenPort PLATFORM® displays deliver your message for maximum results now and in the future.

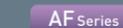
Our Partners

OpenPort PLATFORM® supports applications developed and mutually checked with Panasonic by these global partners:



Note: As of May 2016. Listed in alphabetical order.

Reference Models



Drive-Thru Displays

For Simple and Cost-effective Outdoor Installation

Certified to IP55 weatherproofing standards and outputting 2,000 cd/m²* for bright visibility in direct sunlight, the rugged LFX60 Series is built for hard work day in, day out at Drive-Thrus and QSRs. Thanks to DIGITAL LINK, video and control signals are transmitted for distances of up to 100 m (328 ft) via a single CAT 5e cable, significantly reducing initial installation cost and complexity.

* LFX6N features 1,200 cd/m².

Reference Models

LFX Series



Digital Menu Boards

Easy-to-Manage, Streamlined Operation to Boost Sales

Digital signage displays give restaurants the opportunity to display an ever-changing variety of menu items, drawing in traffic and boosting sales. Multi Monitoring & Control Software enables staff to very easily manage and schedule what appears on a single screen (or network of screens) at different times of day, all from a single PC.

Reference Models

AF Series LF Series EF Series LFE Series

LFV Series BF Series

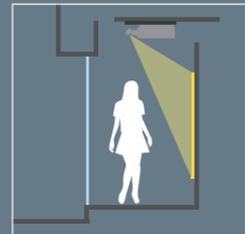


Installation Versatility

Beautiful Large-format Images Almost Anywhere

A big and bold AV experience converts department-store traffic into receptive customers, even on confined sales floors. Fit an ET-DLE030 Ultra-Short-Throw Lens to selected Panasonic 1-Chip DLP™ projectors to display a 100-inch image from just 82 cm (32.3 in) away, or for similarly outstanding performance, install an ultra-reliable large-format display for punchy pictures in portrait or landscape orientation.

ET-DLE030 (optional)
Ultra-Short-Throw Lens



Projecting large-format images is now possible in previously impossible spaces, such as window-front displays, dressing rooms, or in places where the ceiling is too high for a conventional projector.

Reference Models

LQ Series AF Series LF Series EF Series

LFE Series BF Series

RZ670 Series DZ870 Series DZ780 Series

All-Purpose Signage

Screens to Suit Your Space and Budget

From cozy cafes to bustling sports bars, a quality display creates the ambience needed to retain patrons for longer. Available in a range of screen sizes to suit space and budget, these slim-bezel panels feature a built-in media player for plug-and-play presentation via USB and a wealth of standard inputs. All are designed for efficient long-haul commercial use.

USB Media Player Updatable Over LAN

As well as file playback via a single USB media player, select displays support Multi Monitoring & Control Software that allows content to be updated via LAN. This makes it easy to change media content even when displays are installed in difficult-to-access places, such as high on a wall or a long distance away.



USB Media Player featured on AF1, LF80, LF8, EF1, LFE8, LfV60, LfV6, and LfV70 Series. [LfV70 does not support content updates over LAN.]

Reference Models



Video Wall Displays

Seamless and Modular Video Wall Installations

No fashion show, music festival, or corporate event is complete without a dazzling video wall display. The LfV60 Series is part of a front-to-back video-wall solution for up to 10 x 10 panels, which was developed by Panasonic to simplify and expedite installation. It includes ultra-narrow-bezel panels, a dedicated mounting system, multi-screen video synchronization, and auto screen calibration with an optional upgrade kit and compatible camera.

Reference Models



Projector Mapping

Transform Ordinary into Extraordinary

Panasonic has deep technical experience at all levels of the market, and particularly in the development of projection systems for large events, exhibitions, and trade shows. Our 3-Chip DLP™ projector range is the preferred choice of staging and rental professionals, with up to 20,000 lm and industry-leading geo-adjustment and multi-projector software for indoor/outdoor mapping applications.

Reference Models

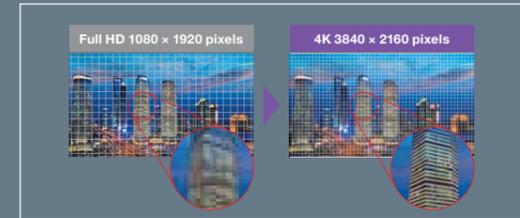


Tokyo Big Sight Inc. Installed equipment: PT-DZ21K x 8 units

Show Products in Their Best Light

Creating the Right Ambience in High-End Showrooms

There's no better way to communicate brand values and create a sales-positive environment than with an AV solution exclusively adapted to showroom applications. Whether you're pumping up buyer motivation with sumptuously detailed 4K images from our multi-award-winning 98-inch LQ70 panel, or accentuating presentation with lighting and image projection courtesy of the Space Player, Panasonic is the right engine for driving sales.



Space Player

Detailed image projection and lighting solution to suit any space

Highlighting	Weddings
Malls	Corporate

Reference Models

LQ Series

Space Player



Display Highlights

Beautiful Pictures and Stylish Designs

Slim, Sleek, and Chic

The near-invisible bezel width on LFV70/60/6/5 displays grants more visible screen area in a physically smaller size display, and compliments any contemporary interior design. LFV70/60/6 video wall series displays reduce bezel-to-bezel distance to just 3.5 mm (bezel-to-bezel distance for LFV5 is 4.9 mm).



LFV70/60/6/5 Series

Wide-Angle Visibility

IPS (In-Plane Switching) panel technology maintains color accuracy, clarity, and detail when the image is viewed off-axis. Passersby can comfortably view and interpret messages for a longer window of time.

LQ70, LF80/8, LFV70/60/6/5, LFX60/6N Series

Optimal Image Mode Presets

Selected display series feature an extensive display menu that allows the user to choose from a wide selection of display modes, such as Vivid Signage, Natural Signage, and Graphic to suit different content, video sources, and lighting environments for optimal imaging performance.



* DICOM simulation only. Do not use for actual medical examinations or diagnosis.

AF1, LF80/8, LFX60/6 Series

Stunning 4K Quality, Right Down to the Details

The LQ70 Series achieves dynamic yet finely nuanced images with its state-of-the-art 8,290,000-pixel panel—about four times the resolution of a Full HD display. Pixels resist break-up even when clients view the display close up, such as in showrooms or high-end stores. A 3D LUT (Look-Up Table) enables stunning color reproduction in dim or bright lighting conditions.



LQ70 Series

Clear and Simple Communication

USB Media Player for Simple Signage Without an STB

Selected display series include a USB media player. Simply insert a USB memory device to display content without need of a set-top box. Both video and still images can be displayed, allowing for customized signage content.



Compatible displays connected via LAN enable files to be copied to multiple USB memory devices simultaneously.

AF1, LF80/8, EF1, LFE8, LFV70/60/6 Series

Cloning Function Saves Time When Setting Up Multiple Devices

Easily copy settings data from a master display to other displays using a USB memory stick. This reduces labor and ensures consistency when setting up multiple devices.

* Function supported on displays of the same size and series only.

AF1, LF80/8, EF1, LFE8, LFV60/6 Series

Video Wall Manager Software and Auto Camera Adjustment Kit

With Panasonic's free Video Wall Manager software, you can calibrate display color using a color sensor, adjust display settings, and control and manage data via PC. An optional TY-VUK10 Auto Camera Adjustment Kit enables brightness and color calibration of multiple displays automatically using a compatible camera (Nikon D5200/D5300/D5500).



AF1, LF80/8, LFV70/60/6/5 Series

OpenPort PLATFORM® Power for Stress-free Custom Signage

The AF1 Series is a self-contained media display solution with a powerful SoC, Android™-based OpenPort PLATFORM® operating system, and apps to suit changing needs. Wireless updates and remote control make operation simpler than ever before.



AF1 Series

Color Universal Design (CUD)

Color Universal Design (CUD) featured on BF1 Series displays ensures that colors are reproduced clearly and accurately for the many millions of people living with color-vision defects.

BF1 Series

Enhanced Reliability

Built for Continuous 24/7 Operation

Use of top-quality electronic components ensures dependable 24-hour operation seven days a week, even in portrait orientation.

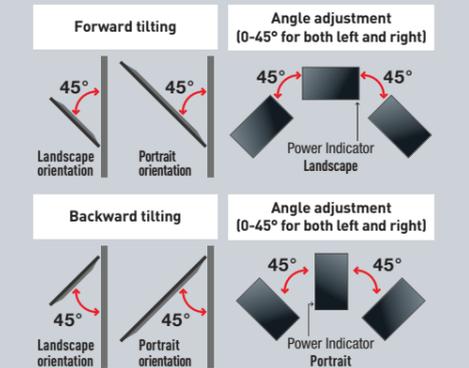


LQ70, AF1, LF50/80/8, LFV70/60/6/5, LFX60/6N Series

Portrait and Tilt Installation Supported

Selected displays can be installed vertically to suit individual space requirements. Tilt installation forward or backward is also supported.

Please visit panasonic.net/prodisplays/ for specific models featuring Portrait & Tilt Installation.



Please refer to specification sheet for installation details.

Display Highlights

Failover and Failback Safeguards for Mission-Critical Situations

If the main video and audio signals are interrupted, selected displays immediately switch to alternative signals. The original image is restored with the primary signal automatically. These safeguards are invaluable when the display is installed in a remote location.

AF1, LF80/8, LQ70/60/6 Series

Rugged and Durable for Professional Use

Selected display series feature extra resistance to external impact for safe installation in high-traffic areas such as train stations, airports, and shopping malls. Protective glass screens and twist-resistant mounting frames for large displays ensure a quality fit and finish.

Protective glass resists impact (LQ70 Series)



LQ70, LFX60/6N, BF1 Series

Dust, Water, and Impact Resistance

With IP-55 certification for dust- and water-resistance, tempered glass for impact resistance, and a forced-air-cooling system, our LFX60 outdoor series is built for ultimate reliability in outdoor conditions.

Dust Resistance		Water Resistance	
Level of protection from dust particles		Level of water resistance	
Level	Degree of Protection	Level	Degree of Protection
5	Protected against dust limited ingress (no harmful deposit)	5	Protected against water jet

LFX60/6N Series

Useful Functionality

DIGITAL LINK Streamlines Installation and Saves Money

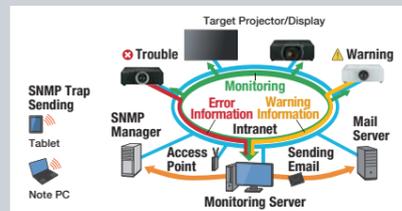
DIGITAL LINK makes it possible to transmit video, audio, and control signals over long distances of up to 150 m (492 ft)*1 with a single CAT 5e or higher STP cable. Easy cabling also reduces labor during setup. Further, the LQ70 Series is compatible with 4K DIGITAL LINK*2.

*1 150 m (492 ft) transmission available only with ET-YFB200G DIGITAL LINK Switcher for signals up to 1080/60p (dot-clock frequency 148.5 MHz). Transmission distance is up to 100 m (328 ft) in other cases. Please visit our global website for information on specific models supporting DIGITAL LINK. *2 4K signal transmission distance is for up to 50 m (164 ft) and requires CAT 5e cable or above.



Multi Monitoring & Control Software

Multi Monitoring & Control Software supports the control and management of up to 2,048 Panasonic projectors and professional displays from single PC over LAN.



AF1, LF80/8, EF1, LFE8, LQ70/60/6, BF1 Series

Whiteboard Function

BF1 Series displays boast a quick-start built-in whiteboard function so you can start work immediately and share content wirelessly. Used for presentations, video and web conferencing, or for quickly capturing ideas, these displays reduce the time and effort needed to achieve great results. The BF1 Series also supports Whiteboard Software for PC, adding further functionality.



BF1 Series

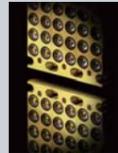
Projector Highlights

Flexible Installation and Integration

Durable Laser Optical Engine for Continuous 24-hour Operation

Selected SOLID SHINE Laser models feature a Dual Drive Laser Optical Engine that uses two light sources grouping laser diodes into modules. A failsafe laser light-source redundancy circuit makes the reduction in brightness and color uniformity almost imperceptible in the event of laser diode failure, making these models ideal for mission-critical applications. Further, brightness decreases very gradually in a linear fashion over its 20,000-hour* maintenance-free service life.

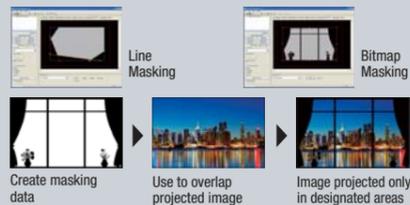
* At this time the brightness will have decreased to approximately half of its original level. Please refer to product-specific condition information on the Panasonic website.



Geometry Manager Pro and Optional Upgrade Kit (ET-UK20 Series)*1

Geometry Manager Pro software offers additional geo-adjustment capabilities and supports color matching and edge blending for multi-screen projection. It also makes multiple projector calibration easy via network. Optional ET-UK20 Upgrade Kit plug-in software for Geometry Manager Pro includes creative masking, uniformity correction, and more. ET-CUK10*1 Auto Screen Adjustment Upgrade Kit sets up multiple projectors automatically at the same time via camera*2 and a connected PC, and calibrates the projectors for multi-screen or curved-screen applications.

*1 Available worldwide except in the United States.
*2 Supported cameras are Nikon D5200/D5500 or successor models.



Flexible Installation

With most Panasonic SOLID SHINE Laser models, projection is possible in any direction vertically and horizontally, and the unit can be rotated 360 degrees for installation at any angle. The wide adjustment range of the powered horizontal/vertical lens shift assures convenience during installation. Adjustments are easily made with the remote control.



System Daylight View for Enhanced Color Perception

Panasonic's System Daylight View improves brightness perception by adjusting sharpness and gamma curves and correcting colors. This produces crisp, clear images with vivid colors even in bright conditions.



Optional Ultra-Short-Throw Lenses

Fit an ET-D75LE90 Ultra-Short-Throw Lens on 3-Chip DLP™ projectors or ET-DLE030 Ultra-Short-Throw Lens onto 1-Chip DLP™ projectors to reduce projection distance. Images can now be projected even in the narrowest spaces, such as shop-front window displays, where projection was previously impossible with a standard lens.



Ultra-Short-Throw Lens for 3-Chip DLP™ Projectors ET-D75LE90

Ultra-Short-Throw Lens for 1-Chip DLP™ Projectors ET-DLE030

Display Lineup

4K UHD

LQ Series	LQ70 500 cd/m²	Models with Protective Glass	98" TH-98LQ70 500 cd/m²	84" TH-84LQ70 500 cd/m²
		Models without Protective Glass	98" TH-98LQ70L 500 cd/m²	84" TH-84LQ70L 500 cd/m²

4K | LED | 24/7 Operation | Protective Glass | 4K | Narrow | Portait | SLOT INX

Indoor

AF Series NEW	AF1 500 cd/m²	55" TH-55AF1 500 cd/m²	49" TH-49AF1 500 cd/m²	42" TH-42AF1 500 cd/m²
------------------	------------------	---------------------------	---------------------------	---------------------------

OpenPort PLATFORM | LED | 24/7 Operation | Narrow | Portait

LF Series

LF Series	LF50 700 cd/m²	60" TH-80LF50 700 cd/m²	70" TH-70LF50 700 cd/m²		
		LF80 700 cd/m²	55" TH-55LF80 700 cd/m²	49" TH-49LF80 700 cd/m²	42" TH-42LF80 700 cd/m²
		LF8 500 cd/m²	55" TH-55LF8 500 cd/m²	49" TH-49LF8 500 cd/m²	42" TH-42LF8 500 cd/m²

LED | 24/7 Operation | DIGITAL LINK | Narrow | Portait | SLOT 2.0

Models compatible with Multi Monitoring & Control Software: AF1, LF80, and LF8 Series

Standard

EF Series NEW	EF1 350 cd/m²	84" TH-84EF1*1 350 cd/m²	75" TH-75EF1*1 350 cd/m²	32" TH-32EF1*2 350 cd/m²
------------------	------------------	-----------------------------	-----------------------------	-----------------------------

*1 Available from autumn 2016.
*2 Please consult sales representative for regional availability.

LFE Series

LFE Series	LFE8 350 cd/m²	65" TH-65LFE8 350 cd/m²	55" TH-55LFE8 350 cd/m²	48" TH-48LFE8 350 cd/m²
		43" TH-43LFE8 350 cd/m²		

LED | Narrow | Portait

* Installation conditions for TH-75EF1 and TH-84EF1 are to be determined.

Models compatible with Multi Monitoring & Control Software: EF1 and LFE8 Series

Video Wall

LFV Series	LFV70 700 cd/m²	55" TH-55LFV70 700 cd/m²	3.5m	
		LFV60 700 cd/m²	55" TH-55LFV60 700 cd/m²	3.5m
		LFV6 500 cd/m²	55" TH-55LFV6 500 cd/m²	3.5m
LFV Series	LFV5 500 cd/m²	47" TH-47LFV5 500 cd/m²	4.9m	

LED | 24/7 Operation | Pre Calibration | DIGITAL LINK | Portait

Models compatible with Multi Monitoring & Control Software: LFV60 and LFV6 Series

Outdoor

LFX Series	LFX60 2,000 cd/m²	47" TH-47LFX60 2,000 cd/m² IP55
		LFX6N 1,200 cd/m²

LED | 24/7 Operation | Protective Glass | Outdoor | DIGITAL LINK | Portait

Touch Screen

BF Series NEW	BF1 350 cd/m²	80" TH-80BF1 350 cd/m²	65" TH-65BF1 350 cd/m²	50" TH-50BF1 350 cd/m²
------------------	------------------	---------------------------	---------------------------	---------------------------

LED | Protective Glass | Multi Touch | Interactive | WIFI | DIGITAL LINK | Portait | SLOT 2.0

BF1 Series is compatible with Multi Monitoring & Control Software

Projector Lineup

Laser Models

PT-RQ13K 10,000 lm 4K*	NEW	4K	SOLID SHINE LASER	QUANTUM POINT DRIVE
PT-RZ12K Series 12,000 lm WUXGA SXGA+		WUXGA	SXGA+	SOLID SHINE LASER
PT-RZ670 Series 6,500 lm WUXGA WXGA		WUXGA	WXGA	SOLID SHINE LASER
PT-RZ570 Series 5,400 lm (Center)/5,200 lm WUXGA	NEW	WUXGA		SOLID SHINE LASER
PT-RZ470 Series 3,500 lm Full HD WXGA		Full HD	WXGA	SOLID SHINE

Lamp Models

PT-DZ21K2 Series 16,000 lm to 20,000 lm WUXGA SXGA+ WXGA Full HD	NEW	WUXGA	SXGA+	WXGA	Full HD
PT-DZ13K Series 10,600 lm to 12,000 lm WUXGA SXGA+ WXGA		WUXGA	SXGA+	WXGA	
PT-DZ870 Series 8,500 lm to 10,000 lm WUXGA WXGA XGA		WUXGA	WXGA	XGA	
PT-DZ780 Series 7,000 lm to 8,200 lm WUXGA WXGA XGA		WUXGA	WXGA	XGA	

Space Player

PT-JW130* 1,000 lm				
-----------------------	--	--	--	--

* Please consult sales representative for regional availability.