SONY

Public Displays

Bringing a New Level of Quality, Versatility, and Reliability into Public Displays

Ruggedized Model
GXD-L65H1

Ruggedized Model
GXD-L52H1

Slim-bezel Model
FWD-S47H1

Slim-bezel Model
FWD-S42H1
FWD-S42E1

Based on decades of expertise in professional display technology and today's stunning advancements in LCD panel technology – which has seen the introduction of 1080 Full HD (high-definition) television systems to both the professional and consumer markets – Sony provides a range of public display products to fulfill customers' different demands.
Four product ranges are available to suit different applications, locations, and operational needs.
The ruggedized models are extremely robust, durable, and reliable, extending installation opportunities to even more harsh environments.
The slim-bezel models are highly sophisticated and stylish, and look good in any installation location, offering a sleeker appearance for digital signage audiences – and a new 42-inch model offering low power consumption has been added for applications requiring economical operation.
The basic models offer the best quality-per-cost balance for digital signage applications.
And finally, the all-in-one models offer both cost efficiency and high performance in a wide range of visual communication applications thanks to their built-in stand and speakers.
This variety of product choices, coupled with the outstanding features and functionality only available from Sony, brings a new level of quality, versatility, and reliability into professional public display applications.

Basic Model
FWD-40LX2F

Basic Model
FWD-32LX2F

All-in-one Model
KLH-40X1

All-in-one Model
KLH-W32

Ruggedized Model

GXD-L65H1

65-inch 1080 Full HD LCD Public Display

GXD-L52H1

52-inch 1080 Full HD LCD Public Display

GXD-L65H1

GXD-L52H1

A New Level of Robustness for 1080 Full HD Digital Signage

Sony's ruggedized models are extremely robust, durable, and reliable, extending installation opportunities to even more harsh environments.

The 65-inch* GXD-L65H1 and 52-inch* GXD-L52H1 LCD public displays adopt a professional Full HD LCD panel that offers excellent picture quality in 1920 x 1080 resolution and a high brightness of 700 cd/m^2 (typical, GXD-L65H1 only)**. In addition, they offer a range of features and functionality that system integrators demand.

Combining an aluminum frame bezel and an LCD protection panel made of tempered glass, these displays are extremely robust and durable. They have a unique cooling system that circulates air inside the unit and dissipates the heat generated through their advanced heat sinks. This eliminates the need for ventilation holes, which can let dust in and out, allowing the display to be installed not only in dusty locations, but also in environments where extremely clean air is required. Plus, Sony's original backlight system eliminates the common problem of a complete display failure when just a single cold cathode fluorescent lamp (CCFL) malfunctions.

With all their unique features and functionality, Sony's ruggedized professional public displays offer dynamic and brilliant Full HD digital signage in locations ranging from retail shops, shopping mall entrances, and train stations to hospitals, enterprises, schools, factories, and universities.

* Viewable area, measured diagonally.

** The brightness of 700 cd/m^2 (typical) is the specification for the panel and not that for the GXD-L65H1 display.

Main Features

- 1080 Full HD – High Resolution of 1920 x 1080
- 1080p Capable – Top-quality HD Images by 1080 Progressive Scan
- High-brightness Panel of 700 cd/m^2 (typical) – Ideal for Use in Bright Light Conditions (GXD-L65H1 only)
- DICOM-simulated Gamma – Allows for Simple Picture Viewing for Education (GXD-L65H1 only)
- Robust Aluminum Frame Bezel
- Exchangeable, Impact-resistant Front Protection Panel*
- Highly Visible Images Thanks to ARAG-coated (GXD-L65H1) or AR-coated (GXD-L52H1) Protection Panel
- Unique Cooling System
- IP54-rated Dust-resistant and Splash-proof Design (GXD-L65H1 only)
- Digital Signage Systems with a Range of Digital Signage Players**
- Intelligent Backlight System – Fail-safe Design by Advanced CCFL Control
- Portrait Mode – Mounted Vertically

* The protection panel glass offers a light transmittance of approximately 90% (GXD-L65H1) and approximately 95% (GXD-L52H1).

** Digital signage players include the VSP-NS7 set-top box model and the BKM-FW50 and BKM-FW55 slot-in models.

Other Features

- High Definition Multimedia Interface™ (HDMI™)
- DVI (HDCP) Interface
- HD-SDI Interface (optional)
- RS-232C and Control S Interfaces (optional)
- Network Port
- Option Slot
- Picture-in-Picture
- Picture-and-Picture
- Multi-display
- On/Off Timer
- Conference Mode
- Control Panel Lock
- Special Hotel Menu
- Illumination of Sony Logo
- Light Sensor
- Control and Monitoring via a Network

Slim-bezel Model

FWD-S47H1
47-inch 1080 Full HD LCD Public Display

FWD-S42H1
42-inch 1080 Full HD LCD Public Display

FWD-S42E1 New
42-inch 1080 Full HD LCD Public Display

FWD-S47H1

FWD-S42H1
FWD-S42E1

High Sophistication and Style for 1080 Full HD Digital Signage

Sony's slim-bezel models are highly sophisticated and stylish, and look good in any installation location, offering a sleeker appearance for digital signage audiences.
They provide excellent picture quality in Full HD (1920 x 1080) resolution, while also offering unique features in brightness and power consumption depending on the model. The 47-inch*1 FWD-S47H1 and 42-inch*1 FWD-S42H1 models feature a high brightness of 700 cd/m² (typical)*2, allowing for use in bright light conditions. Alternatively, the 42-inch* FWD-S42E1 model achieves a low power consumption of 98 W (typical) in ECO mode*3, allowing for economical operation.
In addition to a range of analog interfaces, the slim-bezel models support a DVI (HDCP) digital interface as standard. The FWD-S42E1 also supports remote control interfaces such as RS-232C and Control S, and the FWD-S47H1 and FWD-S42H1 offer a network port. Furthermore, an option slot is available on all models to accept a range of optional adaptors for the versatility of the display.
Slim-bezel professional public displays from Sony contribute to brilliant and dynamic digital signage that attracts invaluable customers with impressive Full HD visuals in locations ranging from retail shops, shopping malls, cinemas, and museums to hospitals, enterprises, and schools.

*1 Viewable area, measured diagonally.
*2 The brightness of 700 cd/m² (typical) is the specification for the panel and not for the display.
*3 ECO mode is a low-brightness mode; it is used as the factory setting.

Main Features

- 1080 Full HD – High Resolution of 1920 x 1080
- 1080p Capable – Top-quality HD Images by 1080 Progressive Scan
- High-brightness Panel of 700 cd/m² (typical) – Ideal for Use in Bright Light Conditions (FWD-S47H1/FWD-S42H1 Only)
- Economical Operation – Low Power Consumption of 98 W (Typical) in ECO Mode*3 (FWD-S42E1 Only)
- DICOM-simulated Gamma – Allows for Simple Picture Viewing for Education (FWD-S47H1/FWD-S42H1 Only)
- Highly Sophisticated and Stylish Slim-bezel Design – Ideal for Wall-mount Applications Using a Multi-display Function
- Digital Signage Systems with a Range of Digital Signage Players*4
- Portrait Mode – Mounted Vertically
- RS-232C and Control S Interfaces*5
- Network Port*6

*4 Digital signage players include the VSP-NS7 set-top box model and the BKM-FW50 and BKM-FW55 slot-in models. The VSP-NS7 cannot support the FWD-S42E1 until the upgrade of the player in winter, 2010. For more details, please contact your nearest Sony office or authorized dealer.
*5 Standard on the FWD-S42E1; optional for the FWD-S47H1/FWD-S42H1.
*6 Standard on the FWD-S47H1/FWD-S42H1; optional for the FWD-S42E1.

Other Features

- HDMI Interface (optional)
- DVI (HDCP) Interface
- HD-SDI Interface (optional)
- Option Slot
- Picture-in-Picture (FWD-S47H1/FWD-S42H1 only)
- Picture-and-Picture (FWD-S47H1/FWD-S42H1 only)
- On/Off Timer
- Conference Mode
- Control Panel Lock
- Special Hotel Menu
- Illumination of Sony Logo (FWD-S47H1/FWD-S42H1 only)
- Control and Monitoring via a Network*6

LINEUP

Basic Model

FWD-40LX2F
40-inch WXGA LCD Public Display

FWD-32LX2F
32-inch WXGA LCD Public Display

FWD-40LX2F

FWD-32LX2F

Perfect for High-quality, Cost-efficient Digital Signage

Sony's basic LCD public display models offer the best quality-per-cost balance for digital signage applications.
The FWD-40LX2F and FWD-32LX2F LCD public displays incorporate a high-quality, professional 40-inch* and 32-inch* LCD panel, respectively, which offer superb picture quality in WXGA resolution.
Both models support two HDMI/DVI (HDCP) digital interfaces and an HD15 analog interface, as standard. In addition, they are pre-installed with a BKM-FW10 Video Input Adaptor and a monitor control adaptor in their option slots to accept a variety of analog video and audio signals, and they also offer external control capabilities via RS-232C and Control S interfaces. If required, these adaptors can be swapped with a range of optional adaptors.
Sony's basic professional public display models can be widely used in digital signage applications thanks to their outstanding display performance and cost-efficiency.

* Viewable area, measured diagonally.

Main Features

- High-quality Digital Interfaces – 2 x HDMI or DVI (HDCP)
- RS-232C and Control S Interfaces
- Picture-and-Picture – Two Pictures Side by Side
- Multi-display – up to 16 Display Units
- Portrait Mode* – Mounted Vertically
- Digital Signage Systems with a Range of Digital Signage Players**

* When the display is used in portrait mode, the panel life decreases from that used in landscape mode by 30-50%.
** Digital signage players include the VSP-NS7 set-top box model and the BKM-FW50 and BKM-FW55 slot-in models.

Other Features

- WXGA
- BBE® and SRS WOW® High-quality Sound
- Network Port (optional)
- Option Slots
- On/Off Timer
- Control Panel Lock
- Special Hotel Menu
- Control and Monitoring via a Network (optional)

All-in-one Model

KLH-40X1

40-inch WXGA LCD Public Display

KLH-W32

32-inch WXGA LCD Public Display

KLH-40X1

KLH-W32

Simple, Affordable, Dynamic Visual Communications Are Here

Incorporating a display stand and stereo speakers into their compact and stylish body, Sony's all-in-one LCD public displays offer both cost efficiency and high performance for a wide range of visual communication applications.
The KLH-40X1 and KLH-W32 incorporate a high-quality WXGA 40-inch* and 32-inch* LCD panel, respectively, to offer superb picture quality.
As standard, they support two HDMI/DVI (HDCP) digital interfaces and an HD15 analog interface.
The KLH-40X1 also accepts a variety of analog video and audio signals, and offers external control capabilities via RS-232C and Control S interfaces, as standard – satisfying customer demands for various video sources and device control.
The KLH-W32 is equipped with an option slot to support a range of optional adaptors, further enhancing the versatility of the display.
Sony's all-in-one professional public displays offer simple, affordable, yet extremely attractive visual communications for locations ranging from retail shops and enterprises to hospitality venues.

* Viewable area, measured diagonally.

Main Features

- All-in-one Design – Built-in Display Stand and Stereo Speakers
- High-quality Digital Interfaces – 2 x HDMI or DVI (HDCP)
- RS-232C and Control S Interfaces
  (standard for KLH-40X1 and optional for KLH-W32)
- Picture-and-Picture – Two Pictures Side by Side (KLH-40X1 only)
- BBE and SRS WOW High-quality Sound

Other Features

- WXGA
- Network Port (optional only for KLH-W32)
- On/Off Timer (KLH-40X1 only)
- Sleep Timer (KLH-W32 only)
- Control Panel Lock (KLH-40X1 only)
- Special Hotel Menu
- Digital Signage Systems with a Range of Digital Signage Players*

* Supported digital signage players include the VSP-NS7 set-top box model and the BKM-FW50 slot-in model. The VSP-NS7 supports only the KLH-40X1. For use of the BKM-FW50, pease contact your nearest office or authorized dealer.

FEATURE COMPARISON

Sony's range of public displays offers high-quality images and sound, and the wide variety of features and functionality that professionals demand.

	Ruggedized Model		Slim-bezel Model			Basic Model		All-in-one Model	
	GXD-L65H1	GXD-L52H1	FWD-S47H1	FWD-S42H1	FWD-S42E1	FWD-40LX2	FWD-32LX2	KLH-40X1	KLH-W32
High-quality Image and Sound									
Panel Size (diagonal)	64.5-inch*1	52-inch*1	47-inch*1	42-inch*1	42-inch*1	40-inch*1	32-inch*1	40-inch*1	32-inch*1
1080 Full HD	●	●	●	●	●				
1080p Capable	●	●	●	●	●	▲*2	▲*2	▲*2	▲*2
WXGA						●	●	●	●
High-brightness Panel of 700 cd/m² (typical)*3	●		●	●					
DICOM-simulated Gamma	●		●	●					
Economical Operation					●				
BBE and SRS WOW High-quality Sound						●	●	●	●
Flexibility and Reliability									
Robust Aluminum Frame Bezel	●	●							
Impact Resistant Front Panel	●	●							
Highly Visible Images Thanks to AR-coated or ARAG-coated Protection Panel	ARAG	AR							
Unique Cooling System	●	●							
IPx4-rated Splash-proof Design	●								
IP5x-rated Dust-resistant Design	●	IP3x							
Slim-bezel Design			●	●	●				
All-in-one Design								●	●
Digital Signage System with the VSP-NS7	●	●	●	●	●*10	●	●	●	
Digital Signage System with the BKM-FW50/FW55	●	●	●	●	●	●	●	▲*8	▲*8
Interface Versatility									
HDMI Interface	x1*5	x1*5				x2*5	x2*5	x2*5	x2*5
DVI (HDCP) Interface	x1*4	x1*4	x1*4	x1*4	x1*4				
HD-SDI Interface	Optional	Optional	Optional	Optional	Optional				
RS-232C and Control S Interfaces	Optional	Optional	Optional	Optional	●	●	●	●	Optional
Network Port	●	●	●	●	Optional	Optional	Optional	Optional*7	Optional*7
Option Slots	x1	x1	x1	x1	x1	x2*6	x2*6		x1
Operational Convenience									
Picture-in-Picture	●	●	●	●					
Picture-and-Picture	●	●	●	●		●	●	●	
Multi-display	●	●	●	●	●	●	●		
Portrait Mode	●	●	●	●	●	▲*9	▲*9		
Illumination of Sony Logo	●	●	●	●					
Light Sensor	●								
On/Off Timer	●	●	●	●	●	●	●	●	
Sleep Timer									●
Conference Mode	●	●	●	●	●				
Control Panel Lock	●	●	●	●	●	●	●	●	
Special Hotel Menu	●	●	●	●	●	●	●	●	●
Easy Operation and Maintenance									
Exchangeable Front Panel	●	●							
Control and Monitoring via a Network	●	●	●	●	●	Optional	Optional	Optional*7	Optional*7
Intelligent Backlight System	●	●							

*1 Viewable area, measured diagonally.

*2 The display can accept 1080p signals and display them in WXGA resolution.

*3 The brightness of 700 cd/m² (typical) is the specification for the panel and not that for the display.

*4 The display is equipped with a DVI connector to accept video signals from DVI-based devices. This connector can also accept video signals from HDMI-based devices via a DVI-to-HDMI cable, but cannot accept audio signals. The audio signals can be accepted from the analog AUDIO IN connector separately.

*5 The display is equipped with an HDMI connector to accept video and audio signals from HDMI-based devices. This connector can also accept video signals from DVI-based devices via a DVI-to-HDMI cable.

*6 The option slots are pre-installed with a BKM-FW10 Video Input Adaptor and a monitor control adaptor.

*7 For more information on using the network functions, please contact your nearest Sony office or authorized dealer.

*8 Only the BKM-FW50 is available for this feature. For use of the BKM-FW50, please contact your nearest Sony office of authorized dealer.

*9 When the display is used in portrait mode, the panel life decreases from that used in landscape mode by 30-50%.

*10 The VSP-NS7 cannot support the FWD-S42E1 until the upgrade of the player in winter, 2010. For more details, please contact your nearest Sony office or authorized dealer.

GLOSSARY

High-quality Image and Sound

1080 Full HD

GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1 FWD-S42E1

The display incorporates a newly developed professional Full HD LCD panel with a 16:9 aspect ratio. This high-quality LCD panel offers excellent picture quality thanks to a native resolution of 1920 x 1080.

1080p Capable

GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1* FWD-S42E1* FWD-40LX2F* FWD-32LX2F* KLH-40X1* KLH-W32*

The display offers 1080p (progressive scan) images at 60 frames per second and 50 frames per second, which are top-quality images in HD formats. These 1080p signals can be input via HDMI and component/RGB connectors.

* The display can accept 1080p signals and display these in WXGA resolution.

WXGA

FWD-40LX2F FWD-32LX2F KLH-40X1 KLH-W32

The display incorporates a high-quality LCD panel with a native resolution of WXGA (1366 x 768), offering extremely high-quality images.

High-brightness Panel of 700 cd/m² (Typical)

GXD-L65H1 FWD-S47H1 FWD-S42H1

The display adopts a high-brightness panel that offers a high brightness of 700 cd/m² (typical)*, allowing for use in bright light conditions.

* The brightness of 700 cd/m² (typical) is the specification for the panel and not that for the display.

DICOM-simulated Gamma

GXD-L65H1 FWD-S47H1 FWD-S42H1

The display can select a gamma curve that simulates a gamma curve compliant with the DICOM (Digital Imaging and Communication in Medicine) GSDF (Greyscale Standard Display Function) standard.

Standard Gamma (Mid mode)

DICOM-simulated Gamma

Simulated Images

With this gamma setting, the display can be used for simple picture viewing for education.

Economical Operation

FWD-S42E1

The display employs ECO mode as the factory setting. This low-brightness mode is designed for economical operation. In ECO mode, the display can lower its power consumption to less than 100 W (typically 98 W).

BBE and SRS WOW High-quality Sound

FWD-40LX2F FWD-32LX2F KLH-40X1 KLH-W32

The display can provide high-quality sound, thanks to BBE and SRS WOW technologies.

Flexibility and Reliability

Robust Aluminum Frame Bezel

GXD-L65H1 GXD-L52H1

The adoption of an aluminum frame bezel makes the display extremely robust, and also provides a sophisticated appearance.

Impact Resistant Front Panel

GXD-L65H1 GXD-L52H1

The display is equipped with a protection panel made of tempered glass that is situated in front of the LCD panel to protect the surface from being damaged. The protection panel has passed Sony's own free-fall drop test* for high robustness.

* To pass the test, a steel ball of approximately 500 g (1 lb 2 oz) is dropped down onto the protection panel of the display from a height of 1.3 m (3.3 feet) and there should be no crack on the surface.

Highly Visible Images Thanks to AR- or ARAG-coated Protection Panel

AR Coating

GXD-L52H1

The display adopts an anti-reflection (AR) coating on the glass protection panel that can reduce light reflection for clear, high-contrast picture viewing.

ARAG Coating

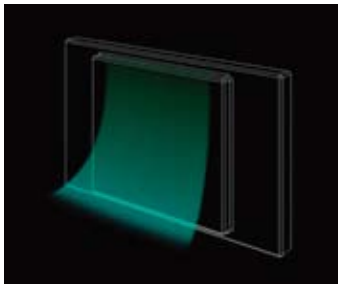
GXD-L65H1

The display adopts both an anti-reflection (AR) and anti-glare (AG) coating on the glass protection panel that can reduce light reflection more effectively – ideal for use in bright light conditions.

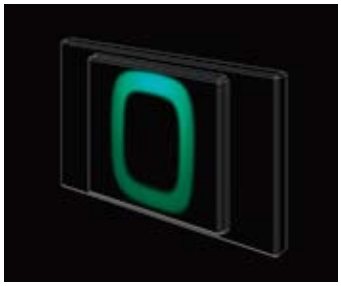
Unique Cooling System

GXD-L65H1 GXD-L52H1

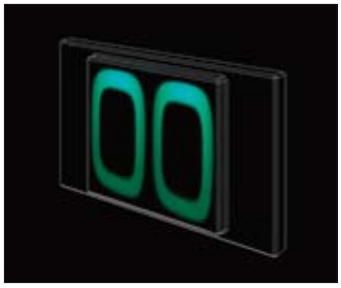
The display adopts a unique cooling system that increases its reliability and versatility. Whereas conventional systems bring cold air in from outside to cool the unit, and then feed warm air back out, this system uses multiple fans to circulate air inside the processor unit, so that all heat generated in the unit is effectively dissipated through advanced heat sinks situated at the rear of the display. Because the unit is completely sealed from external air and there are no air intake filters to be cleaned, the life of the LCD display is greatly extended. This allows the display to be deployed in dusty environments – such as train stations, shopping mall entrances, and factories – where conventional displays can often malfunction due to a build-up of dust in their ventilation holes or on their cooling fans. Alternatively, because this system does not exhaust warm air, which was circulated inside the unit and may contain dust, there is no need to worry about contaminating air outside. This allows the display to be used in environments where extremely clean air is required – such as chemical laboratories, food factories, and hospitals.



Conventional System



Sony System for the GXD-L52H1



Sony System for the GXD-L65H1

IPx4-rated Splash-proof Design

GXD-L65H1

The display adopts a design meeting the IEC (International Electrotechnical Commission) 60529 IPx4 standard* for reliable operation in locations where it may be splashed with water. For this, various considerations have been taken into account in the design of the display enclosure, for example, the connector protection covers can be attached to the rear panel of the display to help prevent water from leaking into the connectors situated on the rear panel.

Splash-proof test

* To pass the test compliant with the IPx4 standard, the display is splashed with water from all directions at a rate of 4.4 liters per minute (L/min) for 10 minutes in power-off mode and no water damage should be found in the display enclosure after being splashed. Sony does not guarantee that the display will withstand operation in all circumstances where water is present.

GXD-L65H1 with and without connector covers

IP5x-rated Dust-resistant Design

GXD-L65H1

Thanks to its advanced enclosure design and unique cooling system, the display is compliant with the IEC 60529 IP5x standard*, allowing for the display to be installed in dusty environments.

Dust-resistant test

* To pass the test compliant with the IP5x standard, the display is placed in a vacuum chamber to depressurize the unit at up to 2 kPa and then talcum powder of diameter less than 75 micron meters is blown in for 8 hours while in power-off mode. No accumulated talcum powder, which may cause the display to malfunction, should be found in the display enclosure after the blowing test. Sony does not guarantee that the display will withstand operation in such extremely dusty environments.

Slim-bezel Design

FWD-S47H1 FWD-S42H1 FWD-S42H1

The adoption of a slim-bezel design with a bezel width of just 19 mm (0.75 inches) makes the display look very sophisticated and stylish. This is ideal for wall-mount applications using a multi-display function, because the slim bezels are less conspicuous when one large image is presented across multiple display units.

Simulated Image
The illumination of the Sony logo can be turned off.

All-in-one Design

KLH-40X1 KLH-W32

The display comes with a built-in display stand and built-in stereo speakers. This compact and stylish all-in-one design allows the display to fit in well to any installation location.

Digital Signage System with VSP-NS7 Digital Signage Player

GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1 FWD-S42E1* FWD-40LX2F FWD-32LX2F KLH-40X1

The VSP-NS7 Digital Signage Player incorporates a high-capacity HDD of 120 GB and offers a variety of features and functionality for digital signage applications.
The VSP-NS7 can receive versatile content of up to five image layers, including graphics, video, and text, from a PC via a network, store them on its HDD, and present them on the screen of the connected display. It can also accept live streaming video and audio from a Sony SNC-RZ50N/RZ50P network camera, which can be played out with other content layers. Furthermore, an extra audio channel is available for playout of music and narration independent of the playlist.
The VSP-NS7 allows operators to control a number of settings and functions of the connected display. These include power ON/OFF, input selection, picture mode selection, audio level settings, and a picture-in-picture function (GXD-L65H1/GXD-L52H1/FWD-S47H1/FWD-S42H1 only).
The user-friendly VSPA-D7 Digital Signage Player Management Software (sold separately and required for operation of the VSP-NS7) makes managing the VSP-NS7 extremely easy. From content management and scheduling, to distribution, the operation of this software application was created with the most effective workflow in mind.
With the combination of the VSP-NS7 and a display, it is possible to create a simple, yet highly advanced digital signage system.

* The VSP-NS7 cannot support the FWD-S42E1 until the upgrade of the player in winter, 2010. For more details, please contact your nearest Sony office or authorized dealer.

Digital Signage Systems with BKM-FW50 and BKM-FW55 Digital Signage Players

GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1 FWD-S42E1 FWD-40LX2F FWD-32LX2F KLH-40X1* KLH-W32*

The BKM-FW50 and BKM-FW55 are versatile digital signage players equipped with a memory card slot. The BKM-FW50 supports CompcactFlash memory cards while the BKM-FW55 supports SD/SDHC memory cards (sold separately). Attaching one of these players to the option slot of a display creates a very simple and easy-to-use digital signage system.

This type of system offers the following functions:

- The BKM-FW50 or BKM-FW55 can play out still images and videos automatically and sequentially from a memory card in its memory card slot, enabling the attached display to instantly present digital signage content. There is no requirement for a networked PC in this very simple digital signage system. With the BKM-FW55, there is an additional capability – the operator can easily update content on the player's installed SD/SDHC card via a USB flash drive.
- The BKM-FW50 or BKM-FW55 can receive digital signage content from a PC/HTTP server via a network, store it on the player's memory card, and play it out on the attached display according to the player's settings. The BKM-FW55 comes equipped with a management software application which can manage up to 10 players, and features a convenient calendar-based scheduling function. In addition, it also supports advanced playout functions, such as an interrupt playout function that is useful for emergency operations.

All the settings necessary for these digital signage functions, such as auto play mode, scheduled download, and playback of content can be easily set up from a PC via a network. The display settings such as power ON/OFF, input selection, and brightness/contrast are also available from the same PC.

* To use the display in the BKM-FW50 system, please contact your nearest Sony office or authorized dealer.

Interface Versatility

HDMI Interface

GXD-L65H1 * GXD-L52H1 * FWD-S47H1 ** FWD-S42H1 ** FWD-S42E1 ** FWD-40LX2F* FWD-32LX2F* KLH-40X1 * KLH-W32 *

The display is equipped with an HDMI interface, which is the latest standard for digitally connecting to high-definition devices.

* By using a DVI-to-HDMI cable, the display can also accept DVI (HDCP) signals.
** To use the HDMI interface, an optional BKM-FW15 adaptor must be installed in the option slot of the display.

HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

DVI (HDCP) Interface

GXD-L65H1 * GXD-L52H1 * FWD-S47H1 * FWD-S42H1 * FWD-S42E1 *

The display supports DVI (Digital Visual Interface), which is a video interface for digitally connecting to display devices. It also supports HDCP (High-bandwidth Digital Content Protection), which is a digital copy protection standard for audio and video content.

* By using a DVI-to-HDMI cable, the display can also accept video signals from HDMI-based devices, but cannot accept audio signals. The audio signals can be accepted from the analog AUDIO IN connector separately.

HD-SDI Interface

GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1 FWD-S42E1

With the optional BKM-FW16 HD-SDI Input Adaptor attached to its option slot, the display can accept digital video in both HD and SD (standard-definition) formats via an HD-SDI/SD-SDI interface.

RS-232C and Control S Interfaces

GXD-L65H1 * GXD-L52H1 * FWD-S47H1 * FWD-S42H1 * FWD-S42E1 FWD-40LX2F FWD-32LX2F KLH-40X1 KLH-W32

The display supports an RS-232C interface, allowing for full control of the display from external devices. In addition, it can receive command signals from its built-in IR receiver and output these to external devices connected to it via a Control S interface. This allows IR remote controllers to operate the devices wirelessly.

* To use the RS-232C and Control S interfaces, an optional BKM-FW21 adaptor must be installed in the option slot of the display.

Network Port

GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1 FWD-S42E1 * FWD-40LX2F* FWD-32LX2F* KLH-40X1 ** KLH-W32 **

The display offers versatile network capabilities such as remote control and monitoring via a network port.

* To use the network port, a BKM-FW32, BKM-FW50, or BKM-FW55 adaptor must be installed in the option slot of the display.
** To use the network port, a BKM-FW50 adaptor must be installed in the display – please also contact your nearest Sony office or authorized dealer.

Option Slots

GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1 FWD-S42E1 FWD-40LX2F FWD-32LX2F KLH-W32

The display is equipped with option slots that allow the use of optional adaptors to enhance the versatility of the display.

■ Available Optional Adaptors

Optional Adaptors	Ruggedized Model		Slim-bezel Model			Basic Model		All-in-one Model	
	GXD-L65H1	GXD-L52H1	FWD-S47H1	FWD-S42H1	FWD-S42E1	FWD-40LX2	FWD-32LX2	KLH-40X1	KLH-W32
BKM-FW10						Pre-installed	Pre-installed		●
BKM-FW11	●	●	●	●	●	●	●		
BKM-FW12						●	●		●
BKM-FW15	●	●	●	●	●				
BKM-FW16	●	●	●	●	●				
BKM-FW21	●	●	●	●					●
BKM-FW32					●	●	●		
BKM-FW50	●	●	●	●	●	●	●	▲	▲
BKM-FW55	●	●	●	●	●	●	●		

▲: For use of the BKM-FW50, please contact your nearest Sony office or authorized dealer

Operational Convenience

Picture-in-Picture

GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1

The picture-in-picture function allows the picture from a secondary source to be displayed within the main picture. The secondary picture is variable in size and position.

Simulated images

Picture-and-Picture

GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1 FWD-40LX2F FWD-32LX2F KLH-40X1

The picture-and-picture function allows the pictures from separate sources to be displayed side by side. Each picture is variable in size.

Simulated images

GLOSSARY

Multi-display

GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1 FWD-S42E1 FWD-40LX2F FWD-32LX2F

The multi-display function can present one dynamic large-screen image by combining up to 16 display units. There are two display modes to choose from:

Window Mode

When making one large image using multiple displays in this mode, each display unit calculates the image part that is hidden by its frame bezel, and then displays each segmented portion of the image. As a result, the one large image looks to be partially masked with multiple frame bezels.

Tile Mode

When making one large image using multiple displays in this mode, each display unit does not calculate the image part that is hidden by its frame bezel, but rather displays each segmented portion of the image, as it is. As a result, the one large image looks to be split by multiple frame bezels.

Simulated images

Simulated images

Portrait Mode

GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1 FWD-S42E1 FWD-40LX2F FWD-32LX2F

The display can be mounted horizontally and vertically, so it can be used for digital signage in either landscape or portrait modes.

Landscape mode

Portrait mode

Illumination of Sony Logo

GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1

The Sony logo can be shown on the frame of the display by illuminating a built-in LED. The position of the logo can be automatically selected from two positions, thanks to a built-in position sensor. This allows the logo to be properly oriented, depending on whether the display is mounted horizontally or vertically. Furthermore, the built-in LED can be turned off manually to suit user preference.

Light Sensor

GXD-L65H1

The display is equipped with a light sensor on the front of the display bezel. This detects when the light is fading and automatically lowers the brightness level of the display panel accordingly, for more economical operation.

On/Off Timer

GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1 FWD-S42E1 FWD-40LX2F FWD-32LX2F KLH-40X1

The display can be programmed to turn on or off at a precise time (hh:mm) - either every day or on specified days of the week.

Sleep Timer

KLH-W32

The display can be set to turn off automatically after a predetermined period of time (15, 30, 45, 60, 90, or 120 minutes).

Conference Mode

GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1 FWD-S42E1

Conference mode is a useful function when using the displays for videoconferencing. It highlights the facial expressions of videoconference participants more clearly by reducing the green ingredient of office fluorescent lights for more natural color reproduction. This is especially useful if your videoconferencing device does not offer such functionality itself.

Control Panel Lock

GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1 FWD-S42E1 FWD-40LX2F FWD-32LX2F KLH-40X1

The control panel lock function can disable the control panel of a display to prevent unauthorized changes to the display settings.

Special Hotel Menu*

GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1 FWD-S42E1 FWD-40LX2F FWD-32LX2F KLH-40X1 KLH-W32

The settings menu of a display includes a special menu for hotel installation that offers advanced settings such as volume limitation.

* For detailed information, please contact your nearest Sony office or authorized dealer.

Easy Operation and Maintenance

Exchangeable Front Protection Panel

GXD-L65H1 GXD-L52H1

The front protection panel made of tempered glass can be conveniently replaced* with a new one, if required, without having to dismount** the whole display unit.

* If a protection panel does need to be replaced, please contact your nearest Sony office or authorized dealer.
** The whole display unit may have to be dismounted in some instances, depending on the mounting location.

Control and Monitoring via a Network

GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1 FWD-S42E1* FWD-40LX2F* FWD-32LX2F* KLH-40X1** KLH-W32**

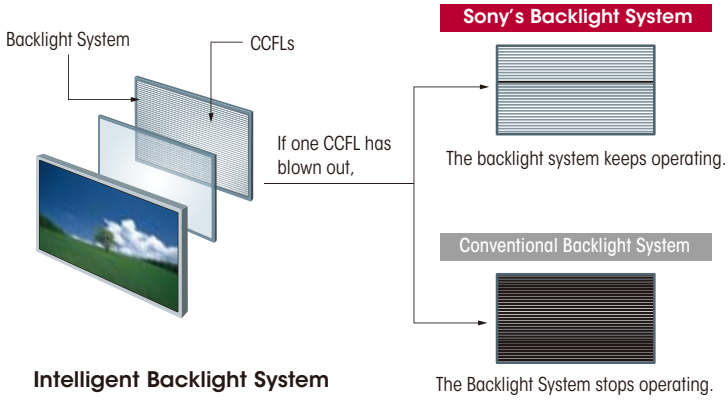
The display settings, such as power ON/OFF and selection of input signals, can be controlled and monitored from a PC via a network.

* To use the network functions, a BKM-FW32, BKM-FW50, or BKM-FW55 adaptor must be installed in the option slot of the display.
** To use the network functions, a BKM-FW50 adaptor must be installed in the display – please also contact your nearest Sony office or authorized dealer.

Intelligent Backlight System

GXD-L65H1 GXD-L52H1

Conventional backlight systems comprising multiple cold cathode fluorescent lamps (CCFL) have a weakness that the whole system stops operating, even if just one CCFL has blown out. The backlight system of Sony's display solves this problem with an advanced CCFL control function. Even if one CCFL has blown out, Sony's backlight system allows the display to maintain stable operations. And if such a malfunction occurs, the display blinks a Power/Standby LED indicator situated on the front of the display bezel automatically to alert users. Malfunctions can also be easily detected – in the case of networked displays, through the PC that monitors the status of the display, or if standalone, by a control device connected to the display via an RS-232C interface.



Intelligent Backlight System

PRESET SIGNALS

Preset Video Signals

Input Signal Formats	Ruggedized Model		Slim-bezel Model			Basic Model		All-in-one Model	
	GXD-L65H1	GXD-L52H1	FWD-S47H1	FWD-S42H1	FWD-S42E1	FWD-40LX2	FWD-32LX2	KLH-40X1	KLH-W32
NTSC	●	●	●	●		●	●	●	●
PAL	●	●	●	●		●	●	●	●
NTSC4.43	●	●	●	●		●	●	●	●
PAL60	●	●	●	●		●	●	●	●
PAL-M	●	●	●	●		●	●	●	●
PAL-N	●	●	●	●		●	●	●	●
575/50I	●	●	●	●	●	●	●	●	●
480/60I	●	●	●	●	●	●	●	●	●
576/50P	●	●	●	●	●	●	●	●	●
480/60P	●	●	●	●	●	●	●	●	●
1080/50I	●	●	●	●	●	●	●	●	●
1080/60I	●	●	●	●	●	●	●	●	●
720/50P	●	●	●	●	●	●	●	●	●
720/60P	●	●	●	●	●	●	●	●	●
1080/50P	●	●	●	●	●	●	●	●	●
1080/60P	●	●	●	●	●	●	●	●	●
1080/24PSF	●	●	●	●	●				

Preset Computer Signals

Input Signal Formats (RGB)	fH (kHz)	fV (Hz)	Resolution (Active Pixels)	Ruggedized Model		Slim-bezel Model			Basic Model		All-in-one Model	
				GXD-L65H1	GXD-L52H1	FWD-S47H1	FWD-S42H1	FWD-S42E1	FWD-40LX2	FWD-32LX2	KLH-40X1	KLH-32X1
VGA-1 (VGA 350)	31.5	70	640 x 350	●	●	●	●	●	●	●	●	●
640 x 480 @ 60 Hz (VESA STD)	31.5	60	640 x 480	●	●	●	●	●	●	●	●	●
Mac 13"	35.0	67	640 x 480	●	●	●	●	●	●	●	●	●
VGA (VGA TEXT)	31.5	70	720 x 400	●	●	●	●	●	●	●	●	●
800 x 600 @ 60 Hz (VESA STD)	37.9	60	800 x 600	●	●	●	●	●	●	●	●	●
Mac 16"	49.7	75	832 x 624	●	●	●	●	●	●	●	●	●
1024 x 768 @ 60 Hz (VESA STD)	48.4	60	1024 x 768	●	●	●	●	●	●	●	●	●
1024 x 768 @ 75 Hz (VESA STD)	60.0	75	1024 x 768	●	●	●	●	●	●	●	●	●
1024 x 768 @ 85 Hz (VESA STD)	68.7	85	1024 x 768	●	●	●	●	●	●	●	●	●
1152 x 864 @ 75 Hz (VESA STD)	67.5	75	1152 x 864	●	●	●	●	●				
Mac 21"	68.7	75	1152 x 870	●	●	●	●	●				
1280 x 960 @ 60 Hz (VESA STD)	60.0	60	1280 x 960	●	●	●	●	●				
1280 x 1024 @ 60 Hz (VESA STD)	64.0	60	1280 x 1024	●	●	●	●	●	●	●	●	●
1600 x 1200 @ 60 Hz (VESA STD)	75.0	60	1600 x 1200	●	●	●	●	●				
1920 x 1200 @ 60 Hz (VESA, Reduced Blanking)	74.0	60	1920 x 1200	●	●	●	●	●				
800 x 600 @ 60 Hz (CVT)	37.4	60	800 x 600	●	●	●	●	●				
848 x 480 @ 60 Hz (CVT)	29.8	60	848 x 480	●	●	●	●	●	●	●	●	●
848 x 480 @ 60 Hz (CVT)	29.5	60	848 x 480						●	●	●	●
848 x 480 @ 75 Hz (CVT)	37.7	75	848 x 480	●	●	●	●	●	●	●	●	●
848 x 480 @ 85 Hz (CVT)	43.0	85	848 x 480	●	●	●	●	●				
1280 x 720 @ 60 Hz (CVT)	44.8	60	1280 x 720	●	●	●	●	●				
1280 x 768 @ 60 Hz (CVT)	47.8	60	1280 x 768	●	●	●	●	●	●	●	●	●
1280 x 768 @ 60 Hz (CVT)	47.4	60	1280 x 768						●	●	●	●
1280 x 768 @ 75 Hz (CVT)	60.3	75	1280 x 768	●	●	●	●	●				
1280 x 960 @ 60 Hz (CVT)	59.7	60	1280 x 960	●	●	●	●	●				
1360 x 768 @ 60 Hz (CVT)	47.7	60	1360 x 768	●	●	●	●	●	●	●	●	●
1360 x 768 @ 60 Hz (CVT)	47.4	60	1360 x 768						●	●	●	●
1024 x 768 @ 60 Hz (CVT)	47.8	60	1024 x 768	●	●	●	●	●				
1280 x 1024 @ 60 Hz (CVT)	63.7	60	1280 x 1024	●	●	●	●	●				
1400 x 1050 @ 60 Hz (CVT)	65.3	60	1400 x 1050	●	●	●	●	●				
1600 x 1200 @ 60 Hz (CVT)	74.5	60	1600 x 1200	●	●	●	●	●				
1920 x 1080 @ 60 Hz (CVT, Reduced Blanking)	66.6	60	1920 x 1080	●	●	●	●	●				

SIGNAL COMBINATIONS

For Picture-in-Picture and Picture-and-Picture Functions

■ Ruggedized Type: GXD-L65H1 and GXD-L52H1

		VIDEO		HD 15		DVI	HDMI	OPTION			
		S-Video	Composite	RGB	Component			RGB	Component	HDMI	HD-SDI/SD-SDI
VIDEO	S-Video			●	●	●	●	●	●	●	●
	Composite			●	●	●	●	●	●	●	●
HD 15	RGB	●	●			●	●		●	●	●
	Component	●	●			●	●	●		●	●
DVI		●	●	●	●			●	●		
HDMI		●	●	●	●			●	●		

■ Slim-bezel Type: FWD-S47H1 and FWD-S42H1

		VIDEO		HD 15		DVI	OPTION			
		S-Video	Composite	RGB	Component	DVI/HDMI*	RGB	Component	HDMI	HD-SDI/SD-SDI
VIDEO	S-Video			●	●	●	●	●	●	●
	Composite			●	●	●	●	●	●	●
HD 15	RGB	●	●			●		●	●	●
	Component	●	●			●	●		●	●
DVI	DVI/HDMI*	●	●	●	●		●	●		

* The display is equipped with a DVI connector to accept video signals from DVI-based devices. This connector can also accept video signals from HDMI-based devices via a DVI-to-HDMI cable, but cannot accept audio signals. The audio signals can be accepted from the analog AUDIO IN connector separately.

■ Basic Type: FWD-40LX2F and FWD-32LX2F

		HD 15		HDMI 1	HDMI 2	OPTION 1 & 2			
		RGB	Component	HDMI/DVI*	HDMI/DVI*	RGB	Component	Composite	S-Video
HD 15	RGB			●	●				
	Component			●	●				
HDMI 1	HDMI/DVI*	●	●			●	●	●	●
HDMI 2	HDMI/DVI*	●	●			●	●	●	●
OPTION 1 & 2	RGB			●	●				
	Component			●	●				
	Composite			●	●				
	S-Video			●	●				

* The display is equipped with an HDMI connector to accept video and audio signals from HDMI-based devices. This connector can also accept video signals from DVI-based devices via a DVI-to-HDMI cable.

■ All-in-one Type: KLH-40X1

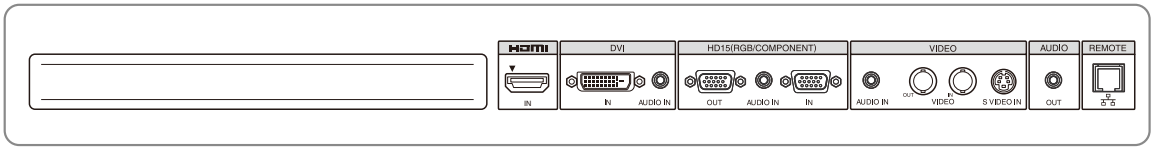
		HD 15		HDMI 1	HDMI 2	VIDEO	
		RGB	Component	HDMI/DVI*	HDMI/DVI*	S-Video	Composite
HD 15	RGB			●	●		
	Component			●	●		
HDMI 1	HDMI/DVI*	●	●			●	●
HDMI 2	HDMI/DVI*	●	●			●	●
VIDEO	S-Video			●	●		
	Composite			●	●		

* The display is equipped with an HDMI connector to accept video and audio signals from HDMI-based devices. This connector can also accept video signals from DVI-based devices via a DVI-to-HDMI cable..

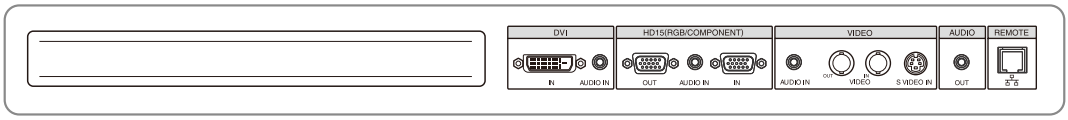
CONNECTORS

■ Connector Panels of Displays

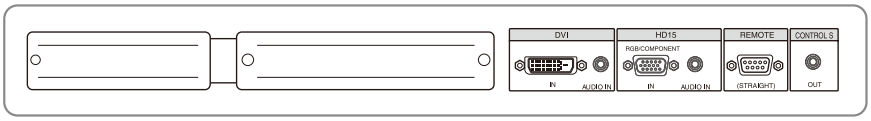
GXD-L65H1 and GXD-L52H1



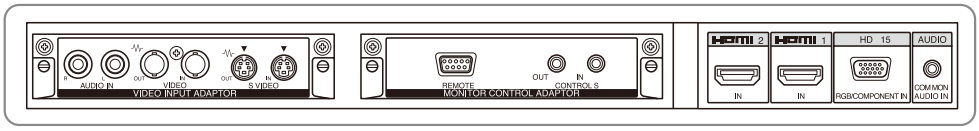
FWD-S47H1 and FWD-S42H1



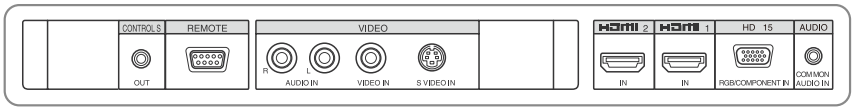
FWD-S42E1



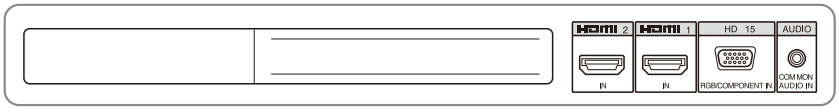
FWD-40LX2F and FWD-32LX2F



KLH-40X1



KLH-W32

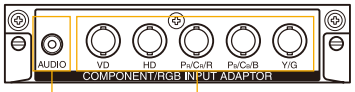


■ Optional Adaptors

BKM-FW10 Video Input Adaptor

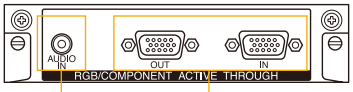
Video In/Out (BNC x2)
Audio In (L/R) (Pin jack x2)
S-Video In/Out (Mini DIN 4 pin x2)

BKM-FW11
Component/RGB Input Adaptor



Component/RGB In (BNC x5)
Audio In (Stereo mini jack x1)

BKM-FW12
RGB/Component Active Through Adaptor

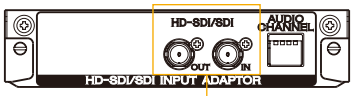


Audio In (Stereo mini jack x1)
RGB/Component In/Out (D-sub 15 pin, female x2)

BKM-FW15 HDMI Input Adaptor

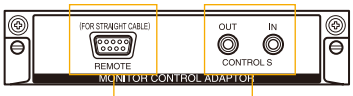
HDMI (x2)

BKM-FW16 HD-SDI Input Adaptor



HD-SDI/SDI In/Out (BNC x2)

BKM-FW21 Monitor Control Adaptor

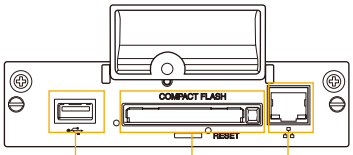


RS-232C (D-sub 9pin, female x1)
Control-S In/Out (Mini jack x2)

BKM-FW32
Network Management Adaptor

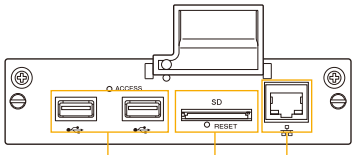
Network Port (RJ45 x1)

BKM-FW50 Digital Signage Player



CompactFlash Slot (x1)
USB Port (x1)
Network Port (RJ45 x1)

BKM-FW55 Digital Signage Player



SD/SDHC Memory Card Slot (x1)
USB Port (x2)
Network Port (RJ45 x1)

OPTIONAL ACCESSORIES

BKM-FW10
Video Input Adaptor
KLH-W32

BKM-FW11
Component /RGB Input Adaptor
GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1 FWD-S42E1 FWD-40LX2F FWD-32LX2F

BKM-FW12
RGB/Component Active Through Adaptor
FWD-40LX2F FWD-32LX2F KLH-W32

BKM-FW15
HDMI Input Adaptor
GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1 FWD-S42E1

BKM-FW16
HD-SDI Input Adaptor
GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1 FWD-S42E1

BKM-FW21
Monitor Control Adaptor
GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1

BKM-FW32
Network Management Adaptor
FWD-S42E1 FWD-40LX2F FWD-32LX2F

BKM-FW50
Digital Signage Playerr
GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1 FWD-S42E1 FWD-40LX2F FWD-32LX2F KLH-40X1 KLH-W32

BKM-FW55*
Digital Signage Playerr
GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1 FWD-S42E1 FWD-40LX2F FWD-32LX2F

VSP-NS7
Digital Signage Player
GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1 FWD-S42E1** FWD-40LX2F FWD-32LX2F KLH-40X1

SS-SPG02
Speaker System
GXD-L65H1 GXD-L52H1 FWD-S47H1 FWD-S42H1 FWD-S42E1

SS-SP40FW
Speaker System
FWD-40LX2F

SS-SP32FW
Speaker System
FWD-32LX2F

SU-S01
Display Stand
FWD-S47H1 FWD-S42H1 FWD-S42E1

SU-42FW
Display Stand
FWD-40LX2F

SU-32FW
Display Stand
FWD-32LX2F

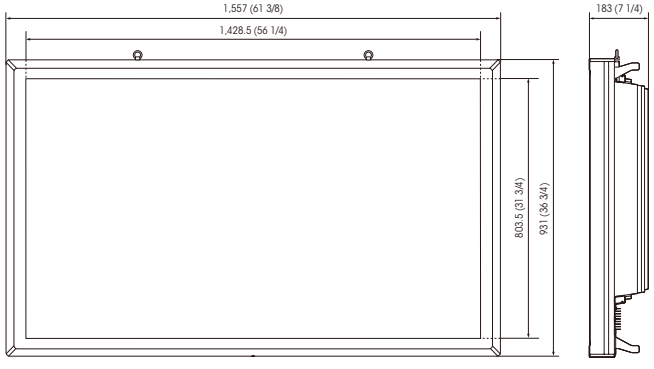
* The BKM-FW55 will be available in winter, 2010. For detailed information on the availability, please contact your nearest Sony office or authorized dealer.
** The VSP-NS7 cannot support the FWD-S42E1 until the upgrade of the player in winter, 2010. For more details, please contact your nearest Sony office or authorized dealer.

SPECIFICATIONS

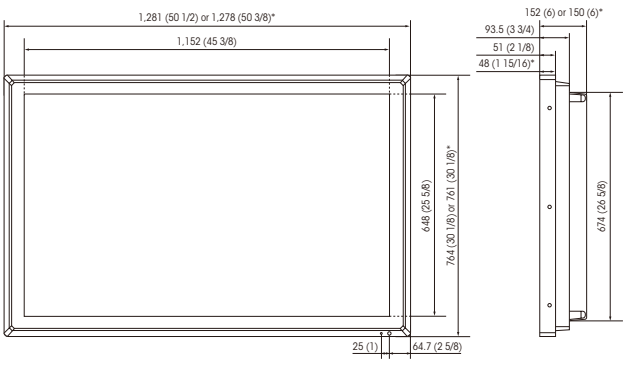
		Ruggedized Model	
		GXD-L65H1	GXD-L52H1
Picture Performance			
LCD Panel	Panel size (diagonal)	64.5-inch*	52-inch*
	Resolution (H/V)	1920 x 1080 pixels, Full HD	
	Pixel pitch	0.74 x 0.74 mm (1/32 x 1/32 inches)	0.6 x 0.6 mm (1/40 x 1/40 inches)
	Picture size (H/V)	1,428 x 804 mm (56 1/4 x 31 3/4 inches)	1,152 x 648 mm (45 1/2 x 25 5/8 inches)
	Panel drive	RGB 10 bit	
	Contrast ratio	2500:1 (typical)	800:1 (typical)
	Brightness	700 cd/m^2 (typical)	500 cd/m^2 (typical)
	Viewing angle**	178° (typical)	
	Response Time	8 ms (typical)	9 ms (typical)
	Type	a-Si TFT Active Matrix LCD	
Protection Panel	Light transmittance	Approx. 90%	Approx. 95%
Acceptable signals		Refer to "Preset Video Signals" and "Preset Computer Signals"	
Color system		NTSC, PAL, PAL-M, PAL-N, NTSC4.43, PAL60	
Sampling rate		13.5 to 162 MHz	13.5 to 140 MHz
Input and Output			
REMOTE	Network port	RJ45 (x1), 10BASE-T/100BASE-TX	
AUDIO	Audio out	Stereo mini jack (x1), 500 mV rms, high impedance	
VIDEO	S-Video in	Mini DIN 4-pin (x1)	
		Y: 1.0 Vp-p ±2 dB, sync negative, 75 Ω terminated	
		C: 0.286 (NTSC)/0.3 (PAL) Vp-p ±2 dB, sync negative, 75 Ω terminated	
	Video in/out	BNC (x2), composite video, 1.0 Vp-p ±2 dB, sync negative, 75 Ω, loop-through (automatic termination)	
	Audio in	Stereo mini jack (x1), 500 mV rms, high impedance	
HD15	Video in/out	D-sub 15-pin, active through (female, x2)	
(RGB/COMPONENT)	Audio in	Stereo mini jack (x1), 500 mV rms, high impedance	
DVI	DVI in	DVI Specification Rev. 1.0 compliant	
	Audio in	Stereo mini jack (x1), 500 mV rms, high impedance	
HDMI	HDMI in	HDMI (1,080p)	
SPEAKER	Speaker out (L/R)	Grip connector (x4), 7W + 7W, 6Ω	
General			
Power requirements		AC 100 to 240 V, 50/60 Hz, 5.5 A (maximum)	AC 100 to 240 V, 50/60 Hz, 4.6 A (maximum)
Power consumption		430 W (typical)/540 W (maximum)	380 W (typical)/460 W (maximum)
Operating temperature		0 to 35 °C (32 to 95°F)	
Storage temperature		-10 to 40 °C (14 to 104 °F)	
Humidity		20 to 90%, no condensation	
Dimensions (W/H/D)		Approx. 1,557 x 931 x 183 mm (61 3/8 x 36 3/4 x 7 1/4 inches) (excluding protruding parts)	Approx. 1,281 x 764 x 152 mm (50 5/8 x 30 1/8 x 6 inches) (excluding protruding parts)
Mass		Approx. 94 kg (207.2 lb)	Approx. 65 kg (143 lb 4 3/4oz)
Supplied Accessories			
		AC power cord (1), LAN Cable(1), AC plug holder (2), Remote Commander RM-FW002 (1), Size AA (R6) batteries (2), Operating instructions (1), Insallation manual for dealers (1)	AC power cord (1), LAN Cable(1), AC plug holder (2), Cable holder (8), Remote Commander RM-FW002 (1), Size AA (R6) batteries (2), Operating instructions (1)
Regulation Compliance			
		IEC 60529 IP54, UL60950-1, CSA No.60950-1-03 (c-UL), FCC Class B, IC Class B, EN 60950-1 (NEMKO), CE, C-Tick	IEC 60529 IP30, UL60950-1, CSA No.60950-1-03 (c-UL), FCC Class B, IC Class B, EN 60950-1 (NEMKO), CE, C-Tick

* Viewable area, measured diagonally.
** Measured at the contrast ratio more than 10:1

Dimensions



GXD-L65H1



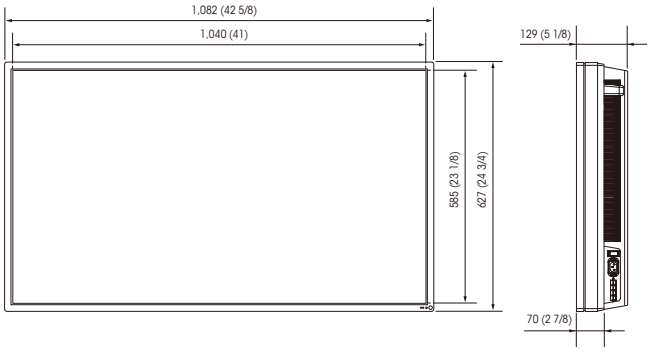
GXD-L52H1

Unit: mm (inches)
*Excluding corner protection covers

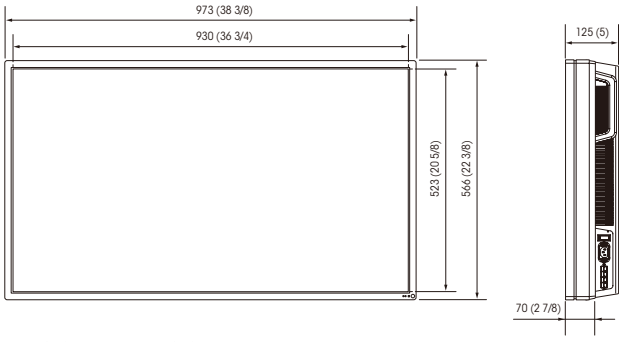
		Slim-bezel Model		
		FWD-S47H1	FWD-S42H1	FWD-S42E1
Picture Performance				
Panel	Panel size (diagonal)	47-inch*	42-inch*	
	Resolution (H/V)	1920 x 1080 pixels, Full HD		
	Pixel pitch	0.54 x 0.54 mm (1/46 x 1/46 inches)	0.48 x 0. 48 mm (1/52 x 1/52 inches)	
	Picture size (H/V)	1,040 x 585 mm (41 x 23 1/8 inches)	930 x 523 mm (36 5/8 x 20 5/8 inches)	
	Panel drive	RGB 8bit + FRC (Frame Rate Control), color number : 1.06 billion		
	Contrast ratio	1000:1 (typical)		
	Brightness	700 cd/m² (typical)		500 cd/m² (maximum)
	Viewing angle**	178° (typical)		
	Response Time	9 ms (typical)		
	Type	a-Si TFT Active Matrix LCD		
Acceptable signals		Refer to "Preset Video Signals" and "Preset Computer Signals"		
Color system		NTSC, PAL, SECAM, PAL-M, PAL-N, NTSC4.43, PAL60		–
Sampling rate		13.5 to 162 MHz		
Input and Output				
REMOTE	Network port	RJ45 (x1), 10BASE-T/100BASE-TX		–
	RS-232C			D-sub 9-pin (female, x1)
	Control S out			Mini jack (x1)
AUDIO	Audio out	Stereo mini jack (x1), 500 mV rms, high impedance		–
VIDEO	S-Video in	Mini DIN 4-pin (x1) Y: 1.0 Vp-p ±2 dB, sync negative, 75 Ω terminated C: 0.286 (NTSC)/0.3 (PAL) Vp-p ±2 dB, sync negative, 75 Ω terminated		–
	Video in/out	BNC (x2), composite video, 1.0 Vp-p ±2 dB, sync negative, 75 Ω, loop-through (automatic termination)		
	Audio in	Stereo mini jack (x1), 500 mV rms, high impedance		
HD15	Video in/out	D-sub 15-pin (female, x2)		–
(RGB/COMPONENT)	Audio in	Stereo mini jack (x1), 500 mV rms, high impedance		
DVI	DVI in	DVI (x1), DVI Specification Rev. 1.0 compliant/HDMI (available by using a DVI-to-HDMI cable)**		
	Audio in	Stereo mini jack (x1), 500 mV rms, high impedance		
SPEAKER	Speaker out (L/R)	Grip connector (x4), 7W + 7W, 6Ω		
General				
Power requirements		AC 100 to 240 V, 50/60 Hz, 3.3 A (maximum)	AC 100 to 240 V, 50/60 Hz, 2.9 A (maximum)	AC 100 to 240 V, 50/60 Hz, 1.6 A (maximum)
Power consumption		240 W (typical) / 320 W (maximum)	210 W (typical) / 280 W (maximum)	98 W (typical) (in ECO mode: low-brightness mode for factory setting) / 160 W (maximum)
Operating temperature		0 to 35 °C (32 to 95 °F)		
Storage temperature		-10 to 40 °C (14 to 104 °F)		
Humidity		20 to 90%, no condensation		
Dimensions (W/H/D)		1082 x 627 x 129 mm (42 5/8 x 24 3/4 x 5 1/8 inches)	973 x 566 x 125 mm (38 3/8 x 22 3/8 x 5 inches)	
Mass		30.5 Kg (67 lb 2 oz)	25.5 Kg (56 lb 2 oz)	
Supplied Accessories				
		AC power cord (1), AC plug holder (2), Cable holder (9), LAN cabler (1), Remote Commander RM-FW002 (1), Size AA (R6) batteries (2), Operating instructions (1)		AC power cord (1), AC plug holder (2), Cable holder (9), Remote Commander RM-FW002 (1), Size AA (R6) batteries (2), Operating instructions (1)
Regulation Compliance				
		UL60950-1, CSA No.60950-1-03 (c-UL), FCC Class B, IC Class B, EN 60950-1 (NEMKO), CE, C-Tick		

* Viewable area, measured diagonally.
** Measured at the contrast ratio more than 10:1
*** Audio signals are not supported.

Dimensions



FWD-S47H1



FWD-S42H1 and FWD-S42E1

Unit: mm (inches)

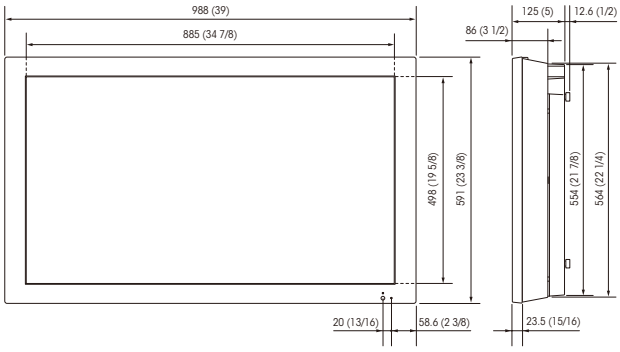
SPECIFICATIONS

		Basic Model	
		FWD-40LX2F	FWD-32LX2F
Picture Performance			
Panel	Panel size (diagonal)	40-inch*	32-inch*
	Resolution (H/V)	1,366 x 768 pixels, WXGA	
	Pixel pitch	0.6 x 0.6 mm (1/40 x 1/40 inches)	0.5 x 0.5 mm (1/50 x 1/50 inches)
	Picture size (H/V)	885 x 498 mm (34 7/8 x 19 5/8 inches)	698 x 392 mm (27 1/2 x 15 1/2 inches)
	Panel drive	RGB: 8 bit	
	Contrast ratio	1300 : 1 (typical)	
	Brightness	500 cd/m^2 (typical)	
	Viewing angle	178° (typical)	
	Response Time	8 ms (typical)	
	Type	a-Si TFT Active Matrix LCD	
Acceptable signals		Refer to "Preset Video Signals" and "Preset Computer Signals"	
Color system		NTSC, PAL, SECAM, PAL-M, PAL-N, NTSC4.43, PAL60	
Sampling rate		13.5 to 140 MHz	
Input and Output**			
AUDIO	Common audio in	Stereo mini jack (x1), 500 mV rms, high impedance	
HD15	RGB/Component in	D-sub 15-pin (female, x1)	
HDMI 1/HDMI 2	HDMI in	HDMI (x2)/DVI (available by using an HDMI-to-DVI cable)	
CONTROL S	Control S in/out	Mini jack (x2)	
REMOTE	RS-232C	D-sub 9-pin (x1)	
VIDEO	S-Video in	Mini DIN 4-pin (x1) Y: 1.0 Vp-p ±2 dB, sync negative, 75 Ω terminated C: 0.286 (NTSC)/0.3 (PAL) Vp-p ±2 dB, sync negative, 75 Ω terminated	
	S-Video out	Mini DIN 4-pin (x1), loop-through	
	Video in	BNC (x1), composite video, 1.0 Vp-p ±2 dB, sync negative, 75 Ω	
	Video out	BNC (x1), loop-through	
	Audio in (L/R)	Pin jack (x2), 500 mV rms, high impedance	
SPEAKER	Speaker out (L/R)	Grip connector (x4), 7 W + 7 W, adequate load impedance: 6 to 16 Ω	
General			
Power requirements		AC 100 to 240 V, 50/60 Hz, 2.3 A	AC 100 to 240 V, 50/60 Hz, 1.3 A
Power consumption		200 W	120 W
Operating temperature		0 to 35 °C (32 to 95 °F)	
Storage temperature		-10 to 40 °C (14 to 104 °F)	
Humidity		20 to 90%, no condensation	
Dimensions (W/H/D)		988 x 591 x 125 mm (39 x 23 3/8 x 5 inches)	796 x 486 x 107 mm (31 3/8 x 19 1/4 x 4 1/4 inches)
Mass		Approx. 25.0 kg (55 lb 2 oz)	Approx. 16.0 kg (35 lb 5 oz)
Supplied Accessories			
		AC power cord (1), AC plug holder (2), Cable holder (4), HD15-component cable (1), BNC-RCA adaptor (1), Remote Commander RM-FW001 (1), Size AA (R6) batteries (2), Operating instructions (1)	AC power cord (1), AC plug holder (2), Cable holder (6), HD15-component cable (1), BNC-RCA adaptor (1), Remote Commander RM-FW001 (1), Size AA (R6) batteries (2), Operating instructions (1)
Regulation Compliance			
		UL60950-1, CSA No.60950-1-03 (c-UL), FCC Class B, IC Class B, EN 60950-1 (NEMKO), CE, C-Tick	

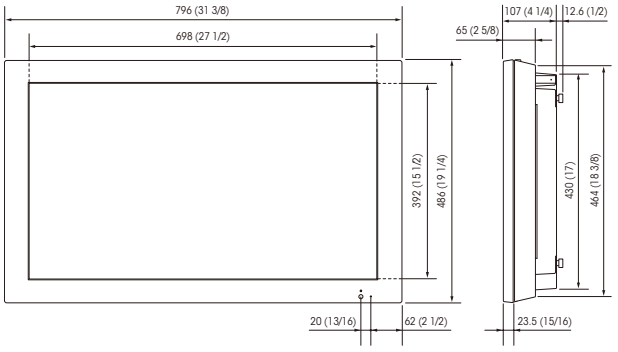
* Viewable area, measured diagonally.

** A BKM-FW10 Video Input Adaptor and a monitor control adaptor are pre-installed in the display's optional adaptor slots.

Dimensions



FWD-40LX2F



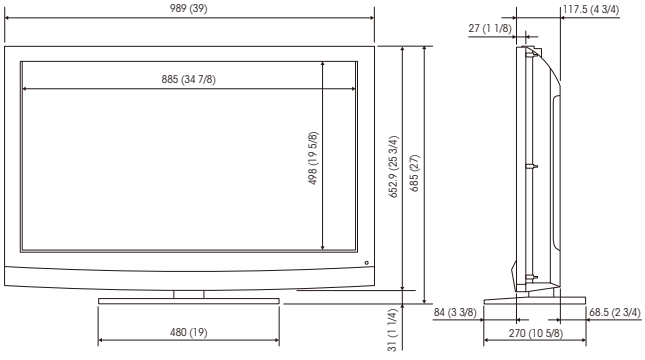
FWD-32LX2F

Unit: mm (inches)

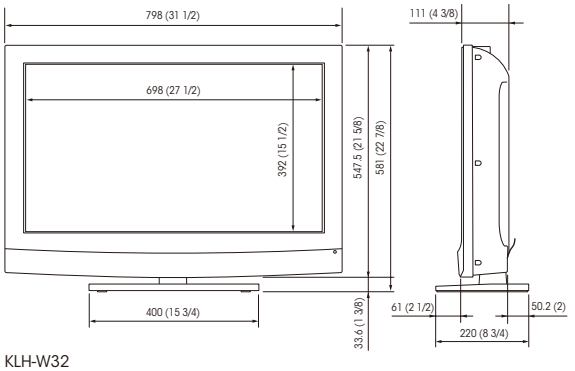
		All-in-one Model	
		KLH-40X1	KLH-W32
Picture Performance			
Panel	Panel size (diagonal)	40-inch*	32-inch*
	Resolution (H/V)	1,366 x 768 pixels, WXGA	
	Pixel pitch	0.6 x 0.6 mm (1/40 x 1/40 inches)	0.51 x 0.51 mm (1/32 x 1/32 inches)
	Picture size (H/V)	885 x 498 mm (34 7/8 x 19 5/8 inches)	698 x 392 mm (27 1/2 x 15 1/2 inches)
	Panel drive	RGB 8 bit	RGB 8 bit
	Contrast ratio	1300:1 (typical)	
	Brightness	500 cd/m2 (typical)	
	Viewing angle**	178° (typical)	
	Response Time	8 ms (typical)	
	Type	a-Si TFT Active Matrix LCD	
Acceptable signals		Refer to "Preset Video Signals" and "Preset Computer Signals"	
Color system		NTSC, PAL, SECAM, PAL-M, PAL-N, NTSC4.43, PAL60	
Sampling rate		13.5 to 140 MHz	
Input and Output			
AUDIO	Common audio in	Stereo mini jack (x1), 500 mV rms, high impedance	
HD15	RGB/Component in	D-sub 15-pin (female, x1)	
HDMI 1/HDMI 2	HDMI in	HDMI (x2)/DVI (available by using an HDMI-to-DVI cable)	
VIDEO	S-Video in	Mini DIN 4-pin (x1) Y: 1.0 Vp-p ±2 dB, sync negative, 75 Ω terminated C: 0.286 (NTSC)/ 0.3 (PAL) Vp-p ±2 dB, sync negative, 75 Ω terminated	
	Video in	RCA pin jack (x1), composite video, 1.0 Vp-p ±2 dB, sync negative, 75 Ω	
	Audio in (L/R)	Pin jack (x2), 500 mV rms, high impedance	
REMOTE	RS-232C	D-sub 9-pin (x1)	
CONTROL S	Control S out	Mini jack (x1)	
Speaker			
Speaker output	Built-in speaker	Stereo Model, 10 W + 10 W, adequate load impedance: 8 to 16 Ω	10 W + 10 W, adequate load impedance: 6 to 16 Ω
General			
Power requirements		AC 90 to 264 V, 50/60 Hz, 2.3 A	AC 100 to 240 V, 50/60 Hz, 1.3 A
Power consumption		220 W	120 W
Operating temperature		0 to 35 °C (32 to 95 °F)	
Storage temperature		-20 to 60 °C (-4 to 140 °F)	-10 to 40 °C (14 to 104 °F)
Humidity		20 to 90%, no condensation	
Dimensions (W/H/D)		989 x 685 x 270 mm (39 x 27 x 10 5/8 inches) (excluding protruding parts)	798 x 581 x 220 mm (31 1/2 x 22 7/8 x 8 3/4 inches) (excluding protruding parts)
Mass		Approx. 28.0 kg (61 lb 12 oz)	Approx. 16.6 kg (36l b 10oz)
Supplied Accessories			
		AC power cord (1), Cable holder (1), HD15-component cable, Remote Commander RM-FW001 (1), Size AA (R6) batteries (2), Operating instructions (1)	AC power cord (1), Cable holder (1), Remote Commander RM-YA004 (1), Size AA (R02) batteries (2), Operating instructions (1)
Regulation Compliance			
		UL60950-1, CSA No.60950-1-03 (c-UL), FCC Class B, IC Class B, EN 60950-1 (NEMKO), CE, C-Tick	

* Viewable area, measured diagonally.
** Measured at the contrast ratio more than 10:1.

Dimensions



KLH-40X1



KLH-W32

Unit: mm (inches)

SONY

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