

SONY®



KLH-40X1

Public Display

SRS (WOW)

BBE DIGITAL

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

Simple, Affordable, Dynamic Visual Communications are Here – the KLH-40X1 40” Public LCD Display

Today, there is a growing demand within the market for professional displays that offer both cost efficiency and high performance. To fulfill this demand, Sony introduces the KLH-40X1 40”* public LCD display. Incorporating a display stand and stereo speakers into its compact and stylish body, the KLH-40X1 offers superb picture quality at WXGA resolution. As standard, it supports a variety of analog interfaces and two HDMI™ (High-Definition Multimedia Interfaces) digital interfaces – satisfying customer demand for various video sources. In addition, it also supports RS-232C and Control S interfaces to connect to professional devices for even more system versatility.

With all the versatile features and functionality of Sony’s professional public displays, the KLH-40X1 offers simple, yet extremely attractive visual communications for locations ranging from retail shops and enterprises to hospitality venues.

* Viewable area, measured diagonally

FEATURES

High Picture Quality

The KLH-40X1 incorporates a high-quality 40” LCD panel* with a native resolution of WXGA (1366 x 768) and a high contrast ratio of 1300 : 1, offering extremely crisp and clear images.

* Viewable area, measured diagonally

All-in-one Design

The KLH-40X1 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 and also simplifies the installation of the digital signage system.

Multiple Inputs and High-performance Scalar

The KLH-40X1 accepts a variety of signals ranging from SDTV to HDTV, and RGB computer signals with resolutions up to WXGA (1366 x 768). It can accept a range of analog signals such as RGB/component via a D-sub 15-pin connector, S-Video via a mini DIN 4-pin connector, and composite video via an RCA pin jack. In addition, it can also accept digital signals via two HDMI (High-Definition Multimedia Interface) interfaces. Furthermore, the KLH-40X1 integrates a high-performance scalar that can provide accurate pixel-by-pixel image reproduction, offering optimum image quality whatever the signal format.

■ Preset Video Signals

Input Signal Formats	Available Interfaces		
	Composite Video/S-Video	Component/RGB	HDMI
480/60i	●	●	●
480/60P		●	●
575/50i	●	●	●
576/50P		●	●
720/50P		●	●
720/60P		●	●
1080/50i		●	●
1080/60i		●	●
1080/50P			●
1080/60P			●

■ Preset Computer Signals

Input Signal Formats (RGB)	fH (kHz)	fV (Hz)	Resolution (Active Pixels)
VGA-1 (VGA 350)	31.5	70	640 x 350
640 x 480 @60Hz (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 @60Hz (VESA STD)	37.9	60	800 x 600
Mac 16"	49.7	75	832 x 624
1024 x 768 @60Hz (VESA STD)	48.4	60	1024 x 768
1024 x 768 @75Hz (VESA STD)	60.0	75	1024 x 768
1024 x 768 @85Hz (VESA STD)	68.7	85	1024 x 768
1280 x 1024 @60Hz (VESA STD)	64.0	60	1280 x 1024
848 x 480 @60Hz (VESA STD)	29.8	60	848 x 480
848 x 480 @60Hz (VESA STD)	29.5	60	848 x 480
848 x 480 @75Hz	37.7	75	848 x 480
1280 x 768 @60Hz	47.8	60	1280 x 768
1280 x 768 @60Hz	47.4	60	1280 x 768
1360 x 768 @60Hz	47.7	60	1360 x 768
1360 x 768 @60Hz	47.4	60	1360 x 768

External Control

The KLH-40X1 is equipped with an RS-232C interface, allowing full control of the display from external devices such as the VSP-NS7 Digital Signage Player. In addition, this display can receive command signals from its built-in IR receiver and output these to external devices connected to it via a Control S interface, allowing for IR remote controllers to wirelessly operate the devices.

Picture and Picture Function

This function allows the KLH-40X1 to simultaneously display two pictures side by side that originate from separate sources. Each picture is variable in size.



Signal Combinations

		HD 15		HDMI 1	HDMI 2	VIDEO	
		RGB	Component			S-Video	Compsite
HD 15	RGB			●	●		
	Component			●	●		
HDMI 1		●	●			●	●
HDMI 2		●	●			●	●
VIDEO	S-Video			●	●		
	Composite			●	●		

High-quality Sound

The built-in speakers of the KLH-40X1 provide high-quality sound, thanks to BBE® and SRS WOW® technologies.

On/Off Timer

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.

Control Panel Lock

This function can disable the control panel to prevent unauthorized changes to the display settings.

OPTIONAL ACCESSORIES



VSP-NS7
Digital Signage Player

CONNECTORS



SPECIFICATIONS

KLH-40X1

Picture Performance

Panel	Resolution (H/V)	1,366 x 768 pixels, WXGA
	Pixel pitch	1/40 x 1/40 inches (0.6 x 0.6 mm)
	Picture size (H/V)	34 7/8 x 19 5/8 inches (885 x 498 mm)
	Panel size (diagonal)	40-inch (1,016 mm)*
	Contrast ratio	1300 : 1
Type	a-Si TFT Active Matrix LCD	
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 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 (x1)
HDMI 1/HDMI 2	HDMI in	HDMI (x2)
	S-Video in	Mini DIN 4-pin (x1)
VIDEO		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)	Stereo mini jack (x2), 500 mV rms, high impedance
REMOTE	RS-232C	D-sub 9-pin (x1)
CONTROL S	Control S out	Mini jack (x1)

Speaker Output

Speaker output	Built-in speaker	Stereo type, 10 W + 10 W, adequate load impedance: 8 to 16 Ω
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General

Power requirements	AC 100 to 240 V, 50/60 Hz, 2.3 A	
Power consumption	220 W	
Operating temperature	32 to 95 °F (0 to 35 °C)	
Storage temperature	-4 to 140 °F (-20 to 60 °C)	
Humidity	20 to 90%, no condensation	
Dimensions (W/H/D)	39 x 27 x 10 5/8 inches (989 x 685 x 270 mm) (excluding protruding parts)	
Weight	61.7 lb (28.0 kg)	

Supplied Accessories

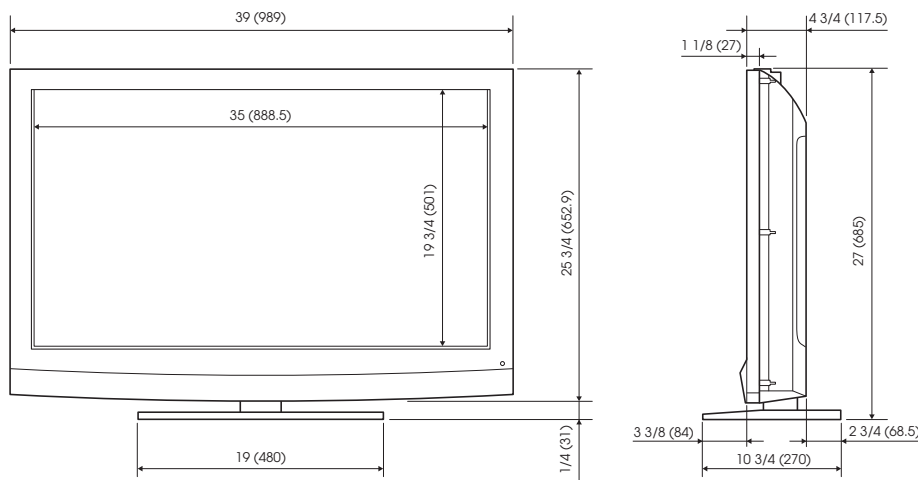
AC power cord (1), Cable holder (1), HD15-component cable, Remote Commander™ RM-FW001 (1), Size AA (R6) batteries (2), Operating instructions (1)

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

Dimensions



Unit: inches (mm)

SONY®

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