SHARP

LCD TV Monitor

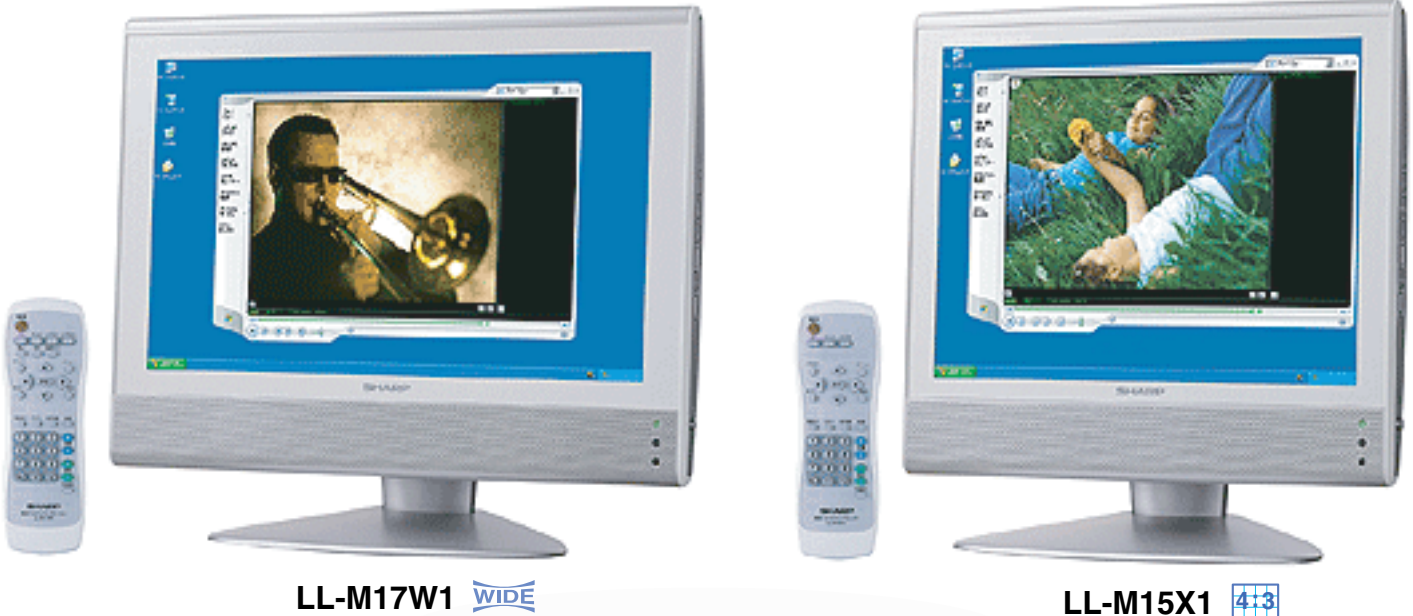# LL-M17W1
17" Wide XGA (1,280 x 768)

LL-M15X1
15" XGA (1,028 x 768)

Stylish, incredibly thin LCD computer monitor and full function television all in one. A computer monitor never looked so good, or did so much.

))) **Built-in TV Tuner** (((

LL-M17W1 WIDE   **LL-M15X1** 4:3

■ **Built-in TV Tuner lets you watch high resolution TV without having to start up your PC**
This display is both a full function LCD TV with 181 channel TV tuner, and a superior quality LCD computer monitor. You can easily connect any video source including DVD players, VCR's, camcorders, Cable or Satellite TV, in addition to your personal computer.

■ **17" wide-screen LCD displays both your video source and computer information perfectly**
The LL-M17W1 uses a extremely bright (400 cd/m^2) 17-inch WXGA LCD with wide viewing angles (170° horizontally and vertically) and high contrast ratio (600:1), which displays clear images from any viewing angle.
Note: The LL-M15X1 has a brightness of 300 cd/m^2 viewing angles of 160° horizontally and 135° vertically and a contrast ratio of 350:1.

■ **Picture-in-Picture function lets you work on your PC, while you watch your favorite video source in a smaller PIP window. (LL-M17W1)**

■ **Incredibly thin space saving design for easy portability**
A built-in carrying handle lets you easily carry the monitor to different rooms in the house, like from your bedroom to the living room, depending on the video source. In addition, a protective panel is provided (LL-T17W1) to ensure bright pictures and protect against bumps and scratches when moving the monitor.

■ **Environment-friendly design and Power Save mode**
With a touch of a button on the remote control, these monitors can be switched to power saving mode ("Dark Mode") that reduces unnecessary screen brightness and lowers power consumption. They also place less burden on the environment than ever before, with the use of non-halogen material for the main unit cabinet and do not utilize Styrofoam packing.

■ Sharp LCD TV lets you enjoy multimedia anywhere in your house or office

● As a game display   ● As a PC monitor   ● In the bedroom

These new LCD monitors display not only PC data, but also TV programs, DVD movies and video games. The built-in TV tuner allows you to watch TV programs at the touch of a button, even when your PC is turned off.

The LL-M17W1 has a 17-inch WXGA LCD screen with high brightness and contrast as well as exceptionally wide viewing angles for crisp and clear images, regardless of where you are sitting. S-Video and standard input jacks provide flexibility in connecting DVD players or other devices to the monitor. Plus, the Picture-In-Picture function lets you work on your PC while enjoying TV or a movie in a user-selected region of the monitor (size and location adjustable).

The LL-M15X1 is an entry-level model with a 15-inch XGA LCD screen with a brightness of 300 cd/m². It is also equipped with AV input jacks.

■ Adjustable Screen Size (LL-T17W1)

When in TV/AV mode, several screen size settings are available depending on the data source. You can enjoy TV programs in the normal 4:3 screen format. Wide Mode expands the image to fit full-screen, and Zoom Mode is best for most DVD movies.
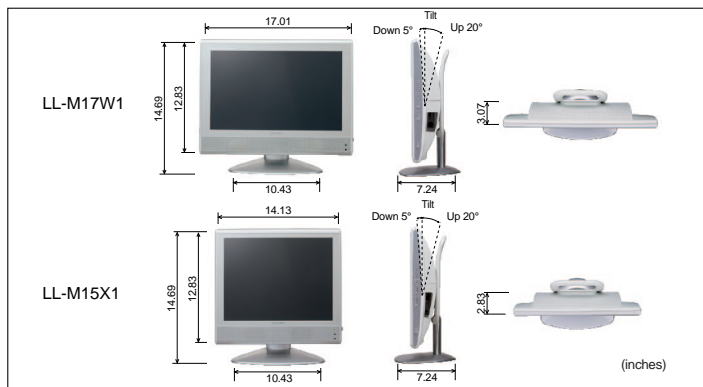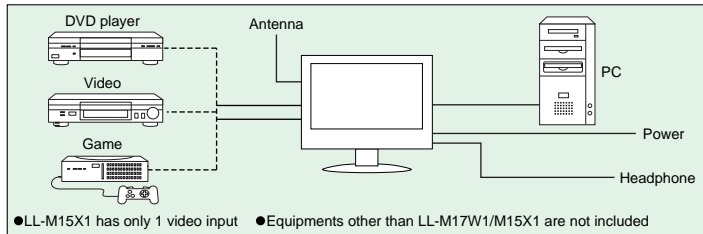
● Normal Mode   ● Wide Mode   ● Zoom Mode

■ Cable Management

Fed up with unsightly tangled cables? The integrated cable harness neatly bundles all cables on the rear of the monitor stand.

■ System Examples

DVD player
Antenna
Video
PC
Game
Power
Headphone

● LL-M15X1 has only 1 video input   ● Equipments other than LL-M17W1/M15X1 are not included

LL-M17W1
17.01
14.69 12.83
Down 5° Up 20° Tilt
10.43   7.24
3.07

LL-M15X1
14.13
14.69 12.83
Down 5° Up 20° Tilt
10.43   7.24
2.83

(inches)

■Specifications

	Model Name	LL-M17W1	LL-M15X1
		17 inch TFT	15 inch TFT
LCD Panel	Display resolution	WXGA 1,280 x 768 dots	XGA 1,024 x 768 dots
	Display colors	16.19 million colors (6bit + FRC)	
	Pixel pitch (H/V)	0.289mm x 0.289mm	0.297mm x 0.297mm
	Brightness	400cd /m² (TV/AV Mode) *1 260cd /m² (PC Mode)	300cd /m² (TV/AV mode & PC mode)
	Contrast ratio	600:1	350:1
	Viewing angle	Horizontal 170°/ Vertical 170° (CR≧10)	Horizontal160°/ Vertical135° (CR>5)
	Response time	25ms	
	Display area	14.6" x 8.7"	12.0" x 9.0"
PC Input signal	Video	Analog RGB 0.7Vp-p[75Ω]	
	Sync.	H/V separate input (TTL:Positive/Negative), Sync on Green, Composite Sync.(TTL:Positive/Negative)	
Video signal format		NTSC	
Functions	Auto adjustment	Clock, Phase, H-POS, V-POS	
	Digital scaling	Full screen at fixed aspect ratio, Full screen	Enlargement to full screen
	Plug & play	VESA DDC1/DDC2B	
	Power management	VESA DPMS	
	User controls (PC Mode)	Brightness, White Balance, Contrast, Clock, Phase, Mode select (17W1), Sound input select, Position (H/V), Language, MUTE, Bright mode, Display mode, Picture-in-Picture, Auto power off	
	User controls (TV/AV Mode)	Brightness, Contrast, White balance, Saturation, Hue, Sharpness, Channel set, MTS, Mode select (17W1), Bright mode, Sound Input select, MUTE, Volume, Off-Timer	
	Picture-In-Picture	○	–
	View mode selection	○	–
	Still mode (TV/AV Mode)	○	–
Input signal	PC video	Mini D-Sub 15 pin	
	PC audio	∅3.5mm mini stereo jack	
	AV In 1	RCA, S-Video	RCA, S-Video
	AV In 2	Component(Y/Pb/Pr) , RCA	–
	Audio in	RCA x 2	RCA x 1
Security		Kensington Lock	
Channel Coverage		VHF:2~13, UHF:14~69, CATV:1-125	
Sound	Headphone	∅3.5mm mini stereo jack	
	Speaker	2.7W x 2	
Screen tilt angle		Up 20°, Down 5°	
Free mount interface		VESA 100mm pitch	VESA 75mm pitch
Backlight life		Approx. 50,000h *2 Aprprox 25,000h *3	Approx. 50,000h
Operating temperature		5℃ to 35℃ (41℉ to 95℉)	
Dimensions (W x D x H)		17.0" x 7.2" x 14.7"	14.1" x 7.2" x 14.7"
Weight		12.9lbs. (w/o AC adapter & cables)	9.7lbs. (w/o AC adapter & cables)
Power supply		AC100-240V, 50Hz / 60Hz	
Power consumption		55W (Power save mode 2W)	35W (Power save mode 2W)
Accessories		Analog Signal Cable (mini d-sub 15pin - mini D-sub 15pin), AC-adapter, Power cord, PC audio cable(1.8m), Cable Clamp, CD-ROM (Utility including ICC Profile for WindowsR / MacintoshR), Antenna Cable(4.0m), Remote control unit, Batteries for RC (AAA), Operation Manual	

*1 When "White Balance" is set to "Warm"
*2 When "White Balance" is set to "Normal"   *3 When "White Balance" is set to "Bright"
● VESA:Video Electronics Standards Association
● DDC:Display Data Channel   ● DPMS:Display Power Management Signaling

■Display Mode

Display Mode (pixels)		Horizontal	Vertical	Dot Frequency
VESA	640 x 480	31.5kHz	60Hz	25.175MHz
		37.9kHz	72Hz	31.5MHz
		37.5kHz	75Hz	31.5MHz
	800 x 600	35.1kHz	56Hz	36.0MHz
		37.9kHz	60Hz	40.0MHz
		48.1kHz	72Hz	50.0MHz
		46.9kHz	75Hz	49.5MHz
	1,024 x 768	48.4kHz	60Hz	65.0MHz
		56.5kHz	70Hz	75.0MHz
		60.0kHz	75Hz	78.75MHz
WXGA*	1,280 x 768	47.986kHz	60Hz	81.0MHz
		60.15kHz	75Hz	102.977MHz
US TEXT	720 x 400	31.5kHz	70Hz	28.3MHz
Power Macintosh	640 x 480	35.0kHz	66.7Hz	30.2MHz
	832 x 624	49.7kHz	74.6Hz	57.3MHz
	1,024 x 768	60.2kHz	75Hz	80.0MHz

* WXGA 1,280 x 768 is only for LL-M17W1
■ Images can not be displayed if output from the PC is in interlaced.
■ Even if the signal is in one of the compatible display mode above, the display may not appear
■ on the screen correctly depending on the computer.
■ Frequencies for the Power Macintosh and Sun Ultra are reference values.
■ When connecting to one of the Power Macintosh Series and one of the Sun Ultra Series, an adapter (commercially available) may be necessary.

■ More About this Product

■ Using the Product
● The TFT color LCD panel used in this monitor is made with the application of high precision technology. However, there may be minute points on the screen where pixels never light or are permanently lit.Also, if the screen is viewed from an acute angle there may be uneven colors or brightness. Please note that these are not malfunctions but common phenomenon of LCDs and will not affect the performance of the monitor. ● Do not leave the screen idle for a long periods of time with a static image, as this could cause an after image to remain. ● The estimated backlight life of 50,000 hours is based on specific conditions of use. Hours of life obtained will depend on the surroundings of the monitor and actual conditions of use.

■ Catalog Notes
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