SHARP

108" class LCD Monitor

LB-1085 2008-9

Surprising performance – the world's largest* 108" class LCD for professional use.

108"

*Current as of June 13, 2008.

With exceptional size and quality, the Sharp 108” class LCD redefines the possibilities of LCDs.

LCDs take another step forward to lead the world. A 108” class LCD monitor with a breathtakingly large screen that satisfies all your demands with its full 1080p High-Definition Sharp LCD panel. The ASV low-reflection black TFT LCD monitor with high-brightness, high-contrast features enables outstanding moving images as well as high-visibility data displays. With a durable design, capable of withstanding 24/7 non-stop operation, the Sharp 108” class LCD also benefits from a low power-consumption that is only possible with LCD monitor. This truly next generation display screen remains beautiful while catering for the harsh conditions of business and professional use.

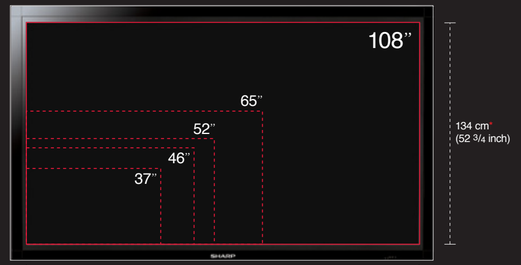


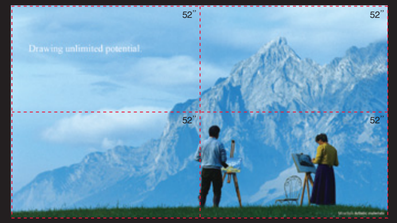
*Simulated Screen Images.

The power of world's largest* 108” class

Extreme size LCD Panel

The world's largest* 108” class LCD panel. Approximately 238 cm (93 25/32 inch) wide and 134 cm (52 3/4 inch) high, the dynamic impact of the screen size which roughly equals four 52-inch monitors brings images to life with the highest impact even in large open areas.





Our previous 52-inch model (used for 4-screen multi-displays)

*Monitor Screen Size

ASV Low-Reflection Black TFT LCD

Uses the ASV low-reflection black TFT LCD that displays images with beautiful quality even in bright environments without hindrance from sunlight or lighting. The 176-degree field of vision also allows images to be seen clearly from any direction ensuring your message is conveyed in all locations to all passers by.



Conventional LCD



ASV low-reflection black TFT LCD

High-Brightness, High-Contrast

The high-brightness panel enables all images on the screen to be delivered clearly even in bright environments. The high-contrast characteristics maximize the use of digital screen technology in all commercial environments.



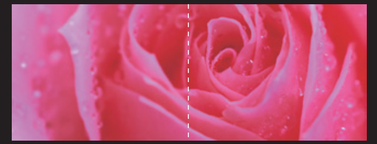
Example of a low contrast LCD



Example of a high-brightness, high-contrast LCD

Full High-Definition

A full high-definition LCD with 1,920 x 1,080 pixels ensures that none of the image quality or dynamic impact is lost, such as in high-quality video, graphic charts, graphs, detail line drawings and fine illustrations.



High-Definition
(1366 (W) x 768 (H) pixels)

Full High-Definition
(1920 (W) x 1080 (H) pixels)



*The stand cover is optional.

Equipped with superior environmental performance in consideration of ecological features

Low power-consumption design

The low power-consumption design aims at reducing CO_2 emissions, which are one of the causes of global warming. Despite the screen being four times larger than our 52-inch model (our previous model) the LB-1085 consumes less than four times the power (325 W x 4,) at 1,130 W. This power-saving will result in benefits to business users where long operation times are required.



LB-1085



Our previous 52-inch model
(used for 4-screen multi-displays)

Reduction of harmful substances to the environment

Various chemical substances that have a detrimental effect on the global environment such as lead, mercury, cadmium, hexavalent chromium, PBB (polybrominated biphenyl,) and PBDE (polybrominated diphenyl ether)—have been reduced.

*Current as of June 13, 2008. ● Simulated Screen Images.

Digital Signage



Airport

The impact of the large-screen 108” class LCD stands out in large public spaces.

The wide viewing angle and low reflection ensure that the monitor is fully visible from any viewpoints.



Shopping Mall

- The ASV low-reflection black TFT LCD suppresses glare from sunlight and electric lights and is easily visible even from angles.
- The bright screen is clearly visible even in bright environments.
- Fan-less design that reduces dust penetration.

Applications Transportation, financial institutions, stadiums, amusement facilities, hotels, etc.

Space Presentation



Public Office

The high-definition, high-brightness and high-contrast fully exploit the superior presentation abilities of LCD technology.

The vivid and breathtaking expressive power of LCD monitors the true beauty and scale of any content as it was originally intended.



Broadcasting Station

- The full spec HD Ready 1080p definition enables a wide range of content, from pictures to video, all faithfully reproduced.
- The contrast is automatically adjusted in accordance with the scene and the high-definition capabilities make sure everything is displayed with the correct levels of brightness for easy viewing.
- A slim and sleek form factor that complements the design of its surrounding for stylish presentations.

Applications Studios, movie theaters, museums, showrooms, promotional space, etc.

● Simulated Screen Images.

Presentation

High-definition capabilities to accurately convey information, while the large screen gives a sense of being in the same room.

The large screen enables everything to be displayed easily visible fashion. This ensures information being discussed is accurately and clearly read.

- The large 108” class screen enables video conferencing to be carried out closely without the usual sense of distance.
- In addition, when images of the participants and data are projected onto the screen at the same time at video conferences, both are clearly displayed.
- The fan-less, silent design enables meetings and lectures to be held in quiet environments.



Educational Institution

Applications Schools, training centers, multi-purpose halls, etc.



Video Conference

Monitoring

A tough, power-conscience design that can withstand 24/7 non-stop operation.

The high reliability and the excellent connectivity satisfy harshest and most demanding usage conditions.

- The vividness of the screen display is maintained even when used over long periods of time.
- The high-definition large screen ensures that even the smallest piece of date can be displayed vividly so that no one overlooks it.
- Equipped with PC and AV terminals as standard gives ultimate flexibility when connecting to a wide range of peripheral equipment.



Factory

Applications Research institutes, public organizations, control rooms, public facilities, etc.



Surveillance Center

*Additional hardware and software is required separately to create each system.

Reliability and Flexibility to Serve Demanding Business Applications

■24/7*

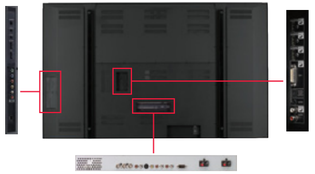
With the reliability of 24/7 non-stop operation and the screen maintaining its vividness even when used over long periods of time, the LB-1085 is the optimum display solution for commercial facilities, stations, airports and other locations where extended use is demanded.

*Note that continuous display of a static image for an extended period of time may result in temporary image memory retention on the screen.

■Versatile Interface

The LB-1085 is fitted with versatile PC and AV terminals as standard to which a wide range of equipment can be connected, including HDTV recorders, Blu-Ray players and personal computers that support HDMI*. RS-232C control also enables the power to be switched on and off and the input channel to be selected remotely by PC.

*HDMI, the HDMI Logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.



The terminals have been carefully laid out for stress-free cable layout.

■Fan-less Design

Fan-less architecture is not only quiet but also easy on maintenance as there are no mechanical air-ventilation fans that often cause dust problems.

● Simulated Screen Images.

Other Functions

■Active Contrast

Images are analyzed to provide optimal brightness and contrast levels for each scene. Dark scenes are displayed with authentic levels of gradation to provide video expression over a wide dynamic range.



Active Contrast: OFF



Active Contrast: ON

■Brightness Sensor

The brightness of the backlight is automatically optimized in accordance with surrounding brightness to ensure clear visibility in all environments. Brightness levels are automatically lowered in dark environments, saving power.



Dark Environment



Bright Environment

■Quick Shoot Function

Improves the response time to ensure that fast action videos are displayed with clarity and vividness.



Quick Shoot : OFF



Quick Shoot : ON

■AV Mode

The screen modes can be selected to match videos from various sources such as PC and movie.



STANDARD (Standard mode)



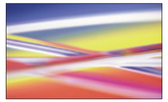
DYNAMIC
(Vibrant and dynamic color mode)

■Maximum Color Display of Approximately 758 Million Colors

The maximum display colors (approx. 758 million), roughly 45 times that of our conventional models (16.77 million) reproduces natural images with extremely detailed and smooth gradations.



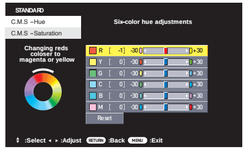
Number of colors on conventional Sharp products
(approximately 16.77 million colors)



LB-1085
(approximately 758 million colors)

■Video Adjustment Function

Fine video adjustments are possible such as for color temperature, hue, color saturation and 3D-Y/C.







LCD panels designed in accordance with leading-edge LCD and environmental technologies and manufactured at the reliable Kameyama Plant.

The Kameyama Plant brings together LCD technology and television production technology under one roof. With a co-generation system providing heat and electricity supply, a solar power generator system within the plant and a system to re-circulate 100% of all water used in manufacturing processes, Sharp Kameyama factory truly is based on leading-edge environmental technology.
The 108" class LCD monitor uses an LCD panel manufactured by the Kameyama Plant. We proudly bring you the highest levels of LCD and environmental technology.



(Rendering of the completed complex.)

The City of Sakai to host an Industrial Complex for the 21st Century

An integrated company providing the world with power-saving LCD monitors and clean-energy solar batteries that does not emit CO_2. In this environmentally aware era that demands both the creation of energy and energy-saving devices Sharp are creating a true industrial complex for the 21st century.
Promoting unprecedented business opportunities that transcend the boundaries of corporate affairs based on a single vision shared by many different industries.

Specifications

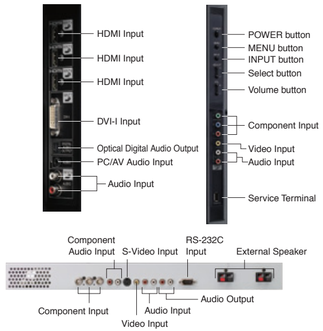
Model		LB-1085
Installation		Landscape
LCD Panel		108" class Wide-screen (Diagonal 2,732.7 mm (107 37/64 inch))
	Maximum Resolution	1,920 x 1,080 pixels
	Maximum Display Colors	Approximately 758 million colors
	Pixel Pitch	H 1.2405 mm x V 1.2405 mm
	Maximum Brightness	400 cd/m²
	Contrast Ratio	1,200:1
	Viewing Angle (H/V)	176°/176° (contrast ratio CR≥10)
	Screen Size	2,381.76 mm (93 25/32 inch) x 1,339.74 mm (52 3/4 inch)
	Response Time	6 ms (Gray to Gray, Avg.)
Computer Input	Video	Analog RGB, Digital (DVI 1.0)
	Plug & Play	VESA DDC2B
	Power Management	Not supported
Video Color System		NTSC (3.58 MHz), PAL
Input Terminal	PC/AV Video#	DVI-I 29-pin 1 channel*1
	PC/AV Audio	φ3.5 mm mini-stereo jack 1 channel
	Serial	RS-232C (D-sub 9-pin x 1)
	HDMI#	3 channels
	Video	2 channels
	S-Video	1 channel
	Component#	2 channels (one of which is BNC)
	Audio	RCA pin (L/R 4 channels)
Output Terminals	Audio	RCA pin (L/R 1 channel)
	Speakers	Speaker output 15 W + 15 W (4Ω)
	Digital Audio	Optical Digital (PCM) 1 channel
Power Supply		AC200-240V (Single-phase, 3-wire type) 50/60Hz
Power Consumption		1,130 W (0.8 W on standby with AC200V)
Environmental Conditions	Operating Temperature	0°C (+32°F) to 40°C (+104°F)
	Operating Humidity	20% to 80% RH (no condensation)
Dimensions (excluding stand)		Width approx. 2,572 mm (101 17/64 inch) x Depth approx. 204 mm (8 3/64 inch) x Height approx. 1,550 mm (61 1/32 inch)
Weight		Approximately 195 kg (429.9 lbs.) (excluding stand)
Package Dimensions (Weight)		Width approx. 2,755 mm (108 15/32 inch) x Depth approx. 745 mm (29 11/32 inch) x Height approx. 2,020 mm (79 17/32 inch), (Approximately 317 kg (698.9 lbs.))
Main Accessories		AC power cord, remote controller and batteries, operating manual, bolt caps, power cord holder

Supported Display Mode

PC	Resolution (Pixels)		Horizontal Frequency (kHz)	Vertical Frequency (Hz)
PC	VGA	720 x 400	31.5kHz	70Hz
		640 x 480	31.5kHz	60Hz
			37.9kHz	72Hz
			37.5kHz	75Hz
	SVGA	800 x 600	35.1kHz	56Hz
			37.9kHz	60Hz
			48.1kHz	72Hz
			46.9kHz	75Hz
	XGA	1,024 x 768	48.4kHz	60Hz
			56.5kHz	70Hz
			60.0kHz	75Hz
	WXGA	1,360 x 768	47.7kHz	60Hz
	SXGA	1,280 x 1,024	64.0kHz	60Hz
	SXGA+	1,400 x 1,050	65.3kHz	60Hz
	UXGA	1,600 x 1,200	75.0kHz	60Hz
	720p	1,280 x 720	37.5kHz	50Hz
			45.0kHz	60Hz
	1080i	1,920 x 1,080	28.1kHz	50Hz
			33.8kHz	60Hz
	1080p	1,920 x 1,080	56.3kHz	50Hz
			67.5kHz	60Hz

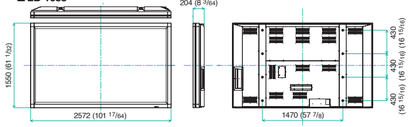
■Check the connection operations between the unit and PC prior to installation without fail. ■There may be cases in which images are not displayed correctly depending on the computer in use, even if the display mode is within the range of supported display mode. ■All figures are estimation. ■VGA and XGA are registered trademarks of International Business Machines Corp.

Terminals



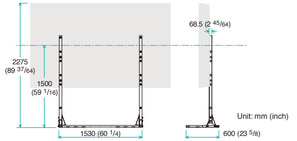
Dimensions Chart

■ LB-1085



■ Stand *Stand installation (with the height of the screen center at 1,500 mm (59 1/16 inch)) from the floor.)

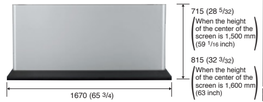
- Height of the screen center (2 steps): 1,500 mm (59 1/16 inch)/1,600 mm (63 inch) (Height from the floor to the screen center.)
- Dimensions of footprint contact with the floor: Width approx. 1,530 mm (60 1/4 inch) x Depth approx. 600 mm (23 5/8 inch)
- *Weight: Approximately 55 kg (121.3 lbs.)



*Either the PN-ZS1P or PN-ZS1C is required to install the display at the 1,500 mm (59 1/16 inch)/1,600 mm (63 inch) height.

Peripheral Equipment (optional)

■ Stand Cover: PN-ZS1C

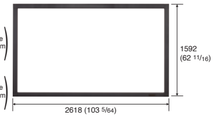


- Stand Cover
- Supports center of the screen heights of 1,500 mm (59 1/16 inch) and 1,600 mm (63 inch)
- Vertical Part: Stainless steel/silver color, Base: Steel/black color
- Extension Support is included

*Weight Approx. 77 kg (169.8 lbs.), Package size 1,785 mm (70 9/32 inch) x 790 mm (31 15/64 inch) x (H) 400 mm (15 3/4 inch)

The black extension support is installed between the vertical part and the base when the screen center height is adjusted to be 1,600 mm (63 inch)

■ Protection Panel: PN-ZH10

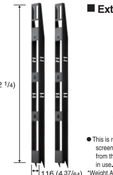


- AR coated tempered glass
- Glass Thickness: 5 mm (13/64 inch)
- Frame Color: Black (matt)

*Weight Approx. 98 kg (216 lbs.), Package size 2,755 mm (108 15/32 inch) x 745 mm (29 11/32 inch) x (H) 1,850 mm (72 27/32 inch)

The ambient temperature around the monitor must be within a range of 0°C (+32°F) to 35°C (+95°F) when the protective panel is attached

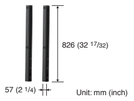
■ Mounting Bracket: PN-ZK10



- A pair of mounting brackets
- The unit cannot be mounted directly onto a wall in order to ensure sufficient space for maintenance (can only be mounted onto a steel H-beam frame).

*Weight Approx. 23 kg (50.7 lbs.), Package size 2,040 mm (80 27/64 inch) x 305 mm (12 1/64 inch) x (H) 145 mm (5 45/64 inch)

■ Extension Support: PN-ZS1P



- This is required for the installation with the center of the screen 1,500 mm (59 1/16 inch) to 1,600 mm (63 inch) from the floor in case of the PN-ZS1C stand cover not in use.

*Weight Approx. 6.5 kg (14.3 lbs.), Package size 920 mm (36 15/64 inch) x 200 mm (7 7/8 inch) x (H) 95 mm (3 3/4 inch)

■Display Specifications *1 The monitor is not equipped with a mini D-sub 15-pin terminal. Analog PC signals can be input from the DVI-I terminal with the use of a conversion cable or adaptor available on the open market.
■VESA: Video Electronics Standards Association ■DDC: Display Data Channel ■DVI: Digital Visual Interface. *These specifications are subject to change without prior notice.
Video Signal Compatibility: DVI-I: 480p, 576p, 720p, 1080i, 1080p
HDMI: 480i/p, 576i/p, 720p, 1080i, 1080p-50Hz/60Hz/24Hz
Component: 480i/p, 576i/p, 720p, 1080i, 1080p

From Purchasing to Installation of the product

Pre-Site Survey

- Please prepare the drawings that shows the details of installation site, the delivery route inside the building and data that shows the strength of the floor.
- The survey will be conducted with the presence of the user, Sharp partners, installation specialists, architects and constructors, and Sharp service personnel.

Estimation

- After the pre-site survey has been completed, the estimation for the expenses beside the unit price, such as delivery fee, the costs for the installation site construction works, options, other related works, maintenance, and disposal or the removal of items, if any, will be provided based on the consultations.
- Please check the details with "Warranty terms and conditions, and Maintenance Agreement".

Order and Delivery

- The product is arranged as built-to-order.

Maintenance Agreement & Maintenance

- Please plan to sign a maintenance contract with Sharp or a partnering service company for the safe use of the product.

Notice

- Before the purchase, Sharp or partnering company will conduct a pre-site survey to verify the delivery route and to check the detail conditions of the installation site.
- In case the delivery route is not secured or the condition at the installation site is found not suitable for the installation of the product, such as for the safety reason, then Sharp / Sharp partnering company may ask to reconsider the purchase of the product.
- There may be cases in which reinforcement work (floor and walls) and power supply installation (AC200-240V (Single-phase, 3-wire type) 50/60Hz) are necessary depending on conditions at the installation site.
- A standard stand or mounting bracket (sold separately) will be necessary for installation. When the standard stand is used, anchor bolts should be required to fix the stand to the floor in order to prevent the unit from toppling over.
- The LB-1085 has been designed for horizontal placement (landscape orientation) in an indoor environment. It cannot be installed vertically (portrait orientation), suspended from the ceiling, tilted or laid flat.
- Sufficient work space for maintenance and an open route to carry the unit out from the installation site must be maintained after installation.
- The TFT color LCD panel is made utilizing high precision technology. However, there may be minute points on the screen where pixels may be inactive or permanently lit. If viewed at an acute angle, there additionally may appear to be uneven brightness or color. These are not malfunctions, but common phenomena, and will not affect the performance of the LCD monitor.
- The backlight used in the LB-1085 has a life of approximately 24,000 hours (this will differ in accordance with conditions of usage.) Backlights are replaceable for a fee.
- The LB-1085 is built to order.
- Other precautions and points to note will be explained and confirmed during the pre-installation checks.

■More About the Products

■Using the product
- Mounting the monitor on the wall requires special expertise and the work must be performed by an authorized SHARP dealer. You should never attempt to perform any of this work yourself. Our company will bear no responsibility for accidents or injuries caused by improper mounting or mishandling.
- 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 phenomena of LCDs and will not affect the performance of the monitor.
- Continuous display of static images may result in temporary image memory effect on the screen.
- Using this monitor's screen-size switching or dual-screen display functions to compress or expand the screen for commercial or public viewing in establishments like café or hotels may infringe on the rights of the creators, as protected by Copyright Law, so please be careful.

■Catalog Notes
- Product specifications are subject to change without notice. Colors of products shown in this catalog may differ slightly from actual colors due to the limitations of the printing process.
- The displays shown on the LCD monitors appearing in photographs in this catalog are simulated images.



Landscape Installation

LB-1085 ●108" class Full High-Definition LCD Monitor

*The stand cover is optional.

SHARP

Sharp-Roxy (Hong Kong) Ltd.
http://www.sharp.com.hk

SHARP