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Press Release

*Press Release*

June 10, 2004

## Sharp Introduces LL-151D 3D LCD Color Monitor Enables Stereo Viewing of 3D Content without Using Special Glasses



LL-151D  
3D LCD Color Monitor  
(Stimulated screen image)

Sharp Corporation announces the introduction into the Japanese market of the 15-inch LL-151D 3D LCD Color Monitor that provides a 3D (stereoscopic) display without the need for special glasses and that can easily be switched to a conventional 2D (planar) display. This new display is targeted at a wide range of application and content developers, and at commercial users studying its potential for business-oriented uses.

The LL-151D can be manually switched from a 2D to a 3D display with the touch of a button. In addition, the display can be automatically switched between 2D mode and 3D mode\*<sup>1</sup> under software program control provided the software supports Sharp 3D Technology\*<sup>2</sup>.

\*<sup>1</sup> Requires a computer with a USB port.

\*<sup>2</sup> Proprietary technology developed by Sharp to achieve a 3D stereoscopic image display. Software that supports Sharp 3D Technology can switch the display between 2D and 3D mode under program control.

### < Major Features >

1. Provides a 3D stereo display without special glasses.
2. Manually switchable between 2D and 3D display at the touch of a button.
3. Achieves vivid, crisp display with no image degradation thanks to digital input support (DVI-I input terminal).

Product name	LCD Color Monitor
Model name	LL-151D
Suggested retail price	Open
Date of introduction in Japan	June 18, 2004

### < Major Specifications >

Model name		LL-151D
LCD panel	Screen size	15-inch (38 cm on the diagonal) 3D-compatible TFT color LCD
	Max. resolution	XGA: 1,024 x 768 pixels* <sup>3</sup>
	Max. colors	Approx. 16.19 million (6-bit + FRC)
	Pixel pitch (mm)	0.297 H x 0.297 V
	Max. brightness	370 cd/m <sup>2</sup> (in 2D mode); 140 cd/m <sup>2</sup> (in 3D mode)
	Contrast ratio	500:1
	Viewing angle (in 2D mode)	Horizontal 130°; vertical: 115° (CR (contrast ratio) > 10)
	Response time	25 ms* <sup>4</sup>
	Display screen size (mm)	304.1 H x 228.1 V
Input signals	Video	Analog RGB (0.7 Vp-p) [75 ohm]; digital (conforms with DVI 1.0 specifications)

	Sync	Separate horizontal/vertical (TTL: positive/negative)
	Supported refresh rates (horizontal/vertical)	Analog: 31.5 to 60.2 kHz/56 to 75 Hz Digital: 31.5 to 60.0 kHz/60 to 75 Hz
Functions	Screen auto adjustments*5	Clock, phase, horizontal position, vertical position
	Digital image enlargement	Resolution scaling (enlarges by stretching VGA/SVGA images to XGA resolution*6)
	Plug & Play	Compliant with VESA DDC2B standard
	Power management	VESA DPMS standard, DVI DMPM standard
	User adjustments	Brightness, black level*5, contrast*5, clock*5/*7, phase*5/*7, screen position*5/*7 (H/V), screen tint, OSD position, language, sound volume
Speakers		1 W + 1W
Input jacks	Computer video	29-pin DVI-I x 1
	Computer audio	3.5-mm.dia. stereo mini-jack
	2D/3D switch	USB
Output jack	Headphone jack	3.5-mm.dia. stereo mini-jack
Height adjustment		Adjustment range: approx. 60 mm
Screen angle adjustment	Tilt	0° to 30° up; 0° to 5° down
	Swivel	Approx. 90° right and left
Free mount compatibility		75-mm pitch (VESA standards compliant)
AC power supply voltage		100 VAC, 50/60 Hz (with dedicated AC power adapter)
Operating temperature range		5° to 35°C
Power consumption		25 W (with no audio input); 29 W max. (2 W on stand-by)
External dimensions		352 W x 185 D x 370 to 430 H mm
Weight (approx.)		5.3 kg (main unit); 3.4 kg (display section only) (not including signal cable and AC power adapter)
Accessories		Digital signal cable (DVI-D 24-pin on both ends; approx. 2.0 meters in length) Analog signal cable (DVI-I 29-pin — mini-D-sub 15-pin, approx. 2.0 meters in length) Audio cable (approx. 2.0 meters in length) Dedicated AC power adapter (including AC power cord, approx. 2.0 meters in length) USB cable (approx. 2.0 meters in length) CD-ROM [application disk (contains ICC profiles for Windows®/Macintosh, and accessory software)] Operating manuals Warranty card

Bundled software	Sharp Smart Stereo Photo Editor Sharp Smart Stereo Camera Calculator Microsoft®. NET Framework
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- \*3 In 2D mode. When displaying in 3D mode, resolution is effectively halved because the horizontal pixels are distributed between left and right stereo images.*
- \*4 Response time will vary depending on panel temperature, brightness and the image being displayed.*
- \*5 Effective only when connected to analog video input.*
- \*6 Image enlarged to fill whole screen only. Images cannot be enlarged at 1:1 or at fixed aspect ratios. Enlarged images cannot be displayed properly in 3D.*
- \*7 To correctly display 3D images, the image must be correctly adjusted while connected to an analog video source.*
  
- \* Screen brightness will change with time, making it impossible to maintain a constant brightness over the life of the display.*
- \* Microsoft and Windows are registered trademarks of Microsoft Corporation in the U.S.A. and in other countries.*
- \* Macintosh is a trademark of Apple Computer, Inc., registered in the US and other countries.*
- \* VESA (Video Electronics Standards Association) is an international organization that supports and sets industry-wide open interface standards for displays and display interfaces in the PC, workstation, and computing environments.*
- \* All other trademarks, product names and company names or service marks cited or used herein are the property of their respective owners.*

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The following information is true and accurate at the time of publication. Manufacture, sale, price and specifications of products may be subjected to change.

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