

Press Release

September 11, 2003

Sharp Releases World's First Notebook PC Incorporating 3D LCD Monitor

**Switchable between Conventional 2D and Next-Generation 3D Display
NVIDIA® GeForce™ 4 440 Go Graphics Chip Enables Smooth Display of 3D Digital Images**



Notebook PC <PC-RD3D>
Note: Screen image simulated.

Sharp Corporation has announced that the company has developed the world's first PC-RD3D notebook PC equipped with an original 3D LCD that requires no special glasses to see 3D images and can be easily switched between plane (2D) and solid (3D) display modes. Sharp will offer the futuristic notebook PC for application software and content developers as well as companies considering its use for business purposes. Outfitted with an English-language OS and keyboard, the PC-RD3D will be marketed in the US after release in Japan.

Solid (3D) display allows dynamic reproduction of spatial positions of an object, and is expected to work as a futuristic display technology ushering in a new world of digital images that deliver life-like experience unaffordable with 2D display for versatile purposes, including CAD and other design applications, medical care, education, entertainment, advertising, broadcasting, and electronic books.

The 3D LCD*¹ featured in the PC-RD3D was developed jointly by Sharp Corporation and Sharp Laboratories Europe, Ltd. (SLE), which makes 3D images seen without special glasses and can be

easily switched between 2D and 3D display modes. This allows the PC to offer dynamic 3D display for using 3D content and for preparing 2D documents and spreadsheets like on a normal PC.

A built-in high-performance Intel® Pentium® 4 microprocessor 2.8 GHz and NVIDIA® GeForce™ 4 440 Go graphics chip provide an environment to draw three-dimensional digital images smoothly. Users can actually experience 3D display performance through preinstalled 3D content display and preparation software and sample content.

Sharp will release models with a Japanese-language OS and keyboard for personal users within this year, pursuing the creation of new 3D personal computer markets.

**1 For detailed description of 3D LCD, please visit
<http://sharp-world.com/products/device/lcd/3dlcd.html>*

Unveiled at WPC Expo 2003

Sharp will exhibit the PC-RD3D notebook PC at Sharp booth (Hall 5) in WPC Expo 2003 to be held in Makuhari Messe International Convention Center from September 17 through 20, 2003.

Product name	LCD notebook PC
Model name	PC-RD3D
Suggested retail price	Open
Date of introduction in Japan	October 27, 2003

PC-RD3D Specifications

Model	PC-RD3D
Installed OS*1	Microsoft® Windows® XP Professional Service Pack 1a (English version)
LCD	15-inch, XGA resolution 3D TFT LCD
CPU	Intel® Pentium® 4 microprocessor 2.8 GHz*1
Display controller	NVIDIA® GeForce™ 4 440 Go
Main memory	512 MB (expandable up to 1,024 MB, compatible with DDR SDRAM PC2100)
Hard disk	Approx. 60 GB*3 (Ultra ATA/100)
Keyboard	89 keys (English-language keyboard)
Optical drive	Built-in DVD multi drive (buffer under-run error prevention)
Floppy disk drive	Built in
Modem (Japanese specifications)	56 kbps

LAN interface	100 BASE-TX/10 BASE-T
Wireless LAN	—
Card slot	PC card type II x 1, CF card Type II x 1 (Type I x 1), SD memory card* ⁴ and SmartMedia (compatible with SmartMedia 3.3 V) x 1, memory stick* ⁴ x 1
Sound features	Conforms to Audio Codec '97 (compatible with 3D sound), conforms to Dolby Digital* ⁵ , built-in stereo speaker
Interface	External display output (analog RGB, mini D-sub 15-pin) x 1, S video output x 1, IEEE 1394 (4-pin) x 1, microphone input (monaural mini-jack x 1, headphone/audio/optical digital audio output (stereo mini-jack) x 1, USB port (USB 2.0) x 4
Others	2D/3D switchover button
Battery life (based on JEITA Measurement Procedure 1.0)	Standard: Approx. 1.3 hours
External dimensions (W x D x H) (excluding protuberances)	352 x 296 x 46 mm (min) to 53 mm (max) [13.9" x 11.7" x 1.8" (2.1")]
Weight	Approx. 4.6 kg (162.2 oz)
Software	3D application: Animated picture content replay. TriDef™ Movie Player (sample animated picture data) Display: TriDef™ Photo Viewer (sample animated picture data) Preparation/display: Sharp Smart Stereo Photo Editor/Slide Show Particle compound modeling: Personal CAChe for Windows Others: MyDVD4, DVD-MovieAlbum SE, Drag'n Drop CD+DVD, WinDVD 4 (Movie Effector), etc.

Notes:

- *1 Only the pre-installed OS is supported.
 - *2 The maximum processing capacity of the CPU operating on battery is approximately 25% of that when driven by AC power.
 - *3 Total drive capacity that can be recognized by the Windows® operating system is approximately 55.8 GB.
 - *4 No function for copyright protection
 - *5 An amplifier with a built-in Dolby digital decoder and speakers available on the market are needed to enjoy Dolby digital sound. (during DVD playback)
- Nominal disk capacity is 1GB = 1 billion bytes.
 - Specifications are subject to change without prior notice.

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- "PC card" refers to cards conforming to standards jointly developed by PCMCIA and JEIDA (Japan Electronic Industry Development Association).
- SmartMedia is a trademark of Toshiba Corporation.
- CompactFlash is a trademark of SanDisk Corporation in the US
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