CELL REGZA™ 55X1 Digital HD LCD TV Equipped with CELL Platform™

CELL REGZA 55X1 digital HD LCD TV

Toshiba has developed the CELL REGZA 55X1 digital high-definition (HD) liquid crystal display (LCD) TV equipped with the CELL Platform, which incorporates the Cell Broadband Engine™ high-performance multicore processor.

The main features of the 55X1 are as follows:

- Super-resolution technology
  The CELL Platform supports the most advanced version of our super-resolution technology. Faithful image reproduction includes enhanced edge details and color saturation, and also extends to better rendering of video contents from the Internet.
- Mega LED panel™
  The 55X1 integrates a mega light-emitting diode (LED) panel specially designed to make full use of the excellent performance of the CELL Platform.
  In addition, the LED backlight control system divides the display into 512 distinct areas.
- Multiple recording with a 3 Tbyte hard disk drive (HDD)
  The unit's 3 Tbyte HDD includes 2 Tbytes of memory capacity dedicated to the "time-shift machine" function, which allows up to eight terrestrial digital channels to be simultaneously recorded.
- Network functionality
  A browser supporting full HD, based on the Opera browser and codeveloped with Opera Software, displays Internet contents with full HD quality and also supports the viewing of YouTube contents.

Cell Broadband Engine is a trademark of Sony Computer Entertainment Inc.

Opera is a trademark of Opera Software ASA.

YouTube and the YouTube logo are trademarks of Google Inc.

Large-Capacity 640 Gbyte 2.5-inch HDD and 320 Gbyte 1.8-inch HDD

640 Gbyte 2.5-inch HDD

320 Gbyte 1.8-inch HDD

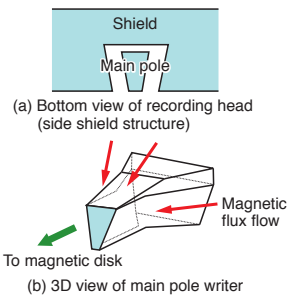
Toshiba has released the MK6465GSX of 5 400 revolutions per minute (rpm) 2.5-inch HDDs offering 640 Gbytes of capacity. With demand for storage at an all-time high, our new 2.5-inch HDD lineup is an attractive solution for an array of computing applications from high-performance notebook PCs and all-in-one desktops to HD image applications, which can benefit from lower power consumption without sacrificing storage capacity.

An areal density of 817.9 Mbits/mm^2 (528.5 Gbits/in^2) was realized in the MK6465GSX by making two improvements to the magnetic head; namely, application of a side-shielded structure to the magnetic pole writer to concentrate the magnetic field at the main magnetic pole by minimizing fringing fields to adjacent tracks, and optimization of the three-dimensional (3D) design of the magnetic pole writer to provide large magnetic write fields from a narrow track writer. In addition, the recording layer materials and thickness of the disk media were optimized to improve the signal-to-noise ratio as well as to reduce inter-track interference.

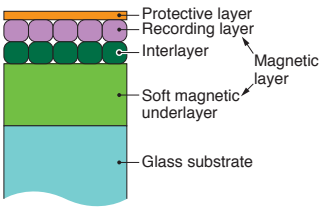
We have also announced a new lineup of 1.8-inch HDDs with a maximum capacity of 320 Gbytes, targeting not only thin and light mobile PCs and portable external HDDs but also notebook PC applications that require high storage capacity and high-speed processing.

We are promoting an Excellent ECP program to stimulate the creation of high-value products offering exceptional environmental friendliness. Both of these product lines meet the standards for certification as Toshiba ECPs, and the MK6465GSX is the first HDD to receive the Excellent ECP award.

ECP: environment-conscious product



Substructure of magnetic writer



Structure of magnetic disk

REGZA™ ZX9000 Series Digital HD LCD TV

REGZA 55ZX9000 digital HD LCD TV

Toshiba has developed the REGZA ZX9000 series digital HD LCD TV equipped with an LED backlight control system and a built-in HDD, comprising two models (55V/46V types).

The ZX9000 series incorporates LEDs for control of the backlight. The LEDs optimize the contrast and gradation of the picture by controlling the backlight in each divided area and analyzing the histogram of the image.

The ZX9000 series supports a double recording function, allowing two different digital terrestrial channels to be simultaneously recorded. In addition, viewers can watch another program during double recording.

The “Game Direct” function, for playing games, greatly reduces the time before a picture is displayed by shortening the delay time of various progressive pictures by about two frames.

REGZA H9000 Series Digital HD LCD TV

REGZA 42H9000 digital HD LCD TV

Toshiba has developed the H9000 series digital HD LCD TV equipped with a built-in HDD, consisting of three models (42V/37V/32V types).

The H9000 series has a 500 Gbyte built-in HDD. In addition, it can be connected with up to four universal serial bus (USB) HDDs using a USB hub, allowing viewers to record programs for an extended period.

Regarding the picture quality, the H9000 series supports double scanning(*). This doubles the number of video frames and also controls the backlight in each divided area, to reduce image lags and create a clearer picture.

(*) Double scanning is supported in the 42V and 37V-type models.

VARDIA™ RD-X9 “Hi-Vision” Recorder

VARDIA RD-X9 “Hi-Vision” recorder

Toshiba has commercialized the VARDIA RD-X9 “Hi-Vision” recorder, which offers the capability to connect a USB HDD for the first time in Japan(*) in response to consumers’ requests to be able to record as many programs as possible on hard disk.

The VARDIA RD-X9 allows users to record more programs by connecting an external USB HDD in addition to the built-in 2 Tbyte HDD.

It also incorporates XDE™ high-resolution up-converted technology. This reproduces high-resolution images by optimally combining technologies to correct outline information and suppress noise, allowing both DVD software and HD broadcasts to be enjoyed.

The VARDIA RD-X9 can also record high-definition contents for a longer period by using the “HD Rec” function, the Moving Picture Coding Experts Group-Phase 4 (MPEG-4) Advanced Video Coding (AVC) method for recording HD broadcasts to DVD-R/RW/RAM, and the “SKYPerfecTV!HD recording” function.

XDE: extended detail enhancement

(*) As of January 2009 (as researched by Toshiba)

XDE600 DVD Player

XDE600 DVD player incorporating XDE technology

Toshiba has launched the XDE600 DVD player featuring XDE high-resolution up-converted technology.

XDE processing enhances the image quality of standard definition (SD) DVD contents after being up-converted, reproducing the images with high resolution that is close to HD quality.

In addition, since DVD video images can be output at resolutions of 1080/24p and 1080/60p, a DVD movie recorded at 1080/24p resolution can be viewed with an image quality closer to that of actual film projection.

The XDE600 is equipped with USB terminals, and supports the playback of photographs, music, movies, etc. recorded on USB drives.

New Qosmio™ V65/F60 AV Notebook PC with SpursEngine™

Qosmio V65/F60 AV notebook PC

Toshiba has released the Qosmio V65/F60 audiovisual (AV) notebook PC offering high-quality images and sound.

This lightweight model of the Qosmio AV notebook PC series incorporates the SpursEngine dedicated media processor and a Blu-ray Disc drive. In order to realize a high-performance notebook PC with a slim and stylish design, the system board is integrated with the SpursEngine board based on our technical know-how accumulated with the "thin and light" model range. This original technology allows us to make the product thinner and smaller. In addition, the Qosmio V65/F60 comes with a striking high-gloss red cover applying the new in-mold forming (IMF) technology, further accenting the stylish design.

The powerful SpursEngine processor supports not only the "Resolution+", "terrestrial digital 8 times speed recording", "face recognition", and "gesture control" features but also the "high speed encoding" feature, which shortens the encoding time of Blu-ray Disc to 1/5. This means that the Qosmio V65/F60 can dub a movie recorded by a HD video camera at the world's fastest(*) speed of 5x.

The Qosmio V65/F60 comes with two built-in harman/kardon® stereo speakers integrated in a new speaker cover. With Dolby Sound Room® and MaxxAudio™, Blu-ray Discs can be enjoyed with high-quality sound unique to the Qosmio series.

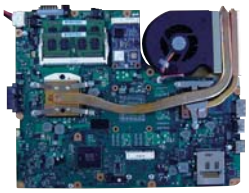
(*) As of March 2010 (as researched by Toshiba)

harman/kardon is a trademark of Harman International Industries, Incorporated.

Dolby and Sound Room are registered trademarks of Dolby Laboratories.

MaxxAudio is a trademark of Waves Audio Ltd.

Blu-ray Disc is a trademark of Blu-ray Disc Association



Integration of system board and SpursEngine sub-board for Qosmio V65/F60

PORTÉGÉ™ R600 Thin and Light Notebook PC with 512 Gbyte SSD

PORTÉGÉ R600 thin and light notebook PC

Toshiba has developed the PORTÉGÉ R600, the world's first(*1) mobile notebook PC integrating a 512 Gbyte solid-state drive (SSD), as an addition to the PORTÉGÉ R series. The R series provides the three key elements of thinness, lightness, and long battery life for mobile notebook PCs, based on the design concept of "true mobility."

The SSD integrated in the R600 model incorporates Toshiba's original multilevel cell (MLC) NAND flash memory. A PC with this SSD is capable of starting at high speed and accessing data speedily. The data-reading speed of this SSD is 230 Mbytes/s, which is approximately 2.3 times faster than that of the previous SSD(*2), while the data-writing speed is 180 Mbytes/s, approximately 4.5 times.

Since a SSD is free from the mechanism of a high-speed rotating disk, it is more resistant to vibration and shock than a HDD. Moreover, SSDs generally have quieter operation and lower power consumption compared with HDDs. These features mean that the SDD is the ideal memory device for mobile notebook PCs.

(*1) As of May 2009, for a mobile notebook PC with a single SSD (512 Gbytes) (as researched by Toshiba)

(*2) Comparison with 128 Gbyte SSD in the conventional PORTÉGÉ model

Internal 512 Gbyte SSD

TECRA™ A11/S11/P11 and Satellite Pro S500 Series Business Notebook PCs

TECRA A11/S11/P11 business notebook PC

The TECRA A11/S11/P11 and Satellite Pro S500 series are notebook PCs for business users equipped with a wide-aspect-ratio (16:9) LCD. This notebook PC series is also available in the Japanese commercial market as the dynabook Satellite K series. The TECRA/Satellite Pro series has the high quality, durability, extensibility, and security required for business-use PCs.

The durability of the PC is designed from the very beginning of the development process, and high quality is maintained by manufacturing in Toshiba's own factory.

All of the LCDs in the TECRA/Satellite Pro series are of the LED backlight type, which is more environmentally friendly compared with the previous backlighting method. In addition, an original texture is applied to the casing surface to achieve high-level industrial design while lowering the cost of the casing.

Toshiba NB 200 Series Netbook PC

Toshiba NB 200 series netbook PC

The Toshiba NB 200 series is an advanced netbook PC designed without compromising either price or specifications.

Its sub-1.2 kg weight improves portability, while its affordability is attractive to price-conscious users.

The sleek and stylish exterior is available in four color variations, and the textured design prevents fingerprints being left on the machine surface. The NB 200 series is equipped with a 3D accelerometer, which protects the HDD in the event that the machine is accidentally dropped. It also has a full A4-size keyboard that provides high convenience and functionality for daily use.

In addition, our originally designed motherboard and antenna placement realize compact installation of communication devices.

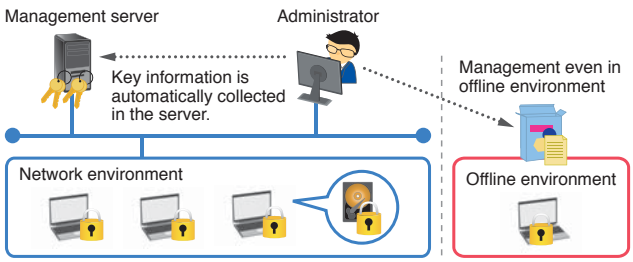
By selecting either the WiMAX or third generation (3G) option, seamless network connection is possible both indoors and outdoors.

WiMAX is a trademark of the WiMAX Forum.

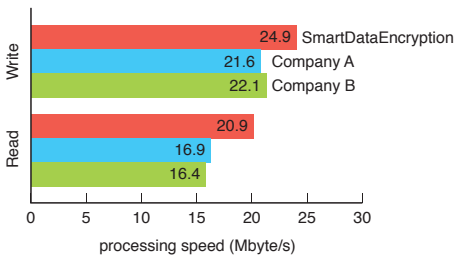
SmartDataEncryption™ HDD Encryption Software

SmartDataEncryption is a software product used to encrypt not only HDDs, but also USB memory devices and individual files and folders. Furthermore, it has the ability to write-inhibit unencrypted removable media. Integrated information security measures can therefore be accomplished using SmartDataEncryption alone. Thanks to the optimization of encryption processing, this software implements reading and writing faster by about 24% and 14%, respectively, compared with similar types of software under the same hardware configuration.

Toshiba Group companies and internal users are running SmartDataEncryption, and about 20 000 licenses have been using this software to date.



(a) Configuration of SmartDataEncryption



Hardware configuration for measurement
dynabook SS RX1 (1 Gbyte memory)
Windows Vista® BU (SP1)
Measured by PCMark05*

* PCMark05 is a software product that measures PC performance.

Outline of SmartDataEncryption

Windows Vista is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

New WillPOS-Unity M-8000 POS Terminal

WILLPOS-Unity M-8000 POS terminal

Requirements for point of sales (POS) terminals have greatly changed with the recent changes in the employment and market environments.

In response to these changes, Toshiba TEC Corporation has released the WILLPOS-Unity M-8000 POS terminal with a refurbished design to provide new user-friendliness for food supermarkets and mass retailers.

Reflecting the widespread use of auto change dispensers, the M-8000 has a new “unified modular” structure that makes it possible to flexibly change the equipment configuration according to the sales situation and provide the optimal operating environment.

Additionally, the adoption of a new POS platform comprising a power-saving CPU for a mobile computer and a server chipset ensures high performance and high reliability together with economical operation.

e-STUDIO 181/211 and 182/212/242 Monochrome Multifunctional Peripherals

Toshiba TEC Corporation has launched a new line of digital monochrome multifunctional peripherals (MFPs) for small office and home office (SOHO) use.

The e-STUDIO181/211 models offer speeds of 18 and 21 PPM, respectively, with an electronic sorting function as standard, providing easy and user-friendly operation for monochrome MFP users in small and medium-sized workgroups.

The e-STUDIO182/212/242 models offer throughputs of 18, 21, and 24 PPM, respectively, with expandable functions that are frequently demanded such as network printing, scanning, and duplex printing.

Both of these model ranges are eco-friendly and provide the duplex graphics device interface (GDI) printing function as standard.

PPM: Prints per minute

e-STUDIO181 monochrome multifunctional peripheral

OCR2000i Model 10000, Fastest Class in Models of Japanese OCR and Sorter System

Toshiba Solutions Corporation has developed the OCR2000i model 10000 Japanese optical character reader (OCR) and sorter system, which can process large batches of various types of sheets.

This model can read and sort at a speed of 300 sheets(*) per minute, making it the fastest class in the models of Japanese OCR and sorter system. It is ideal for centralized data entry operations by organizations in the financial sector such as banks and insurance companies as well as in the distribution industry. A newly developed paper handling mechanism enables users to handle mixed sheets of various paper qualities, thicknesses, and sizes. The sorter unit has eight pockets stacked vertically, and when multiple sorter units are joined together the system can sort a huge volume of sheets.

We have also developed the functionality of generating index data recognized from the input sheets, so that the index data can be used for document management keys such as document titles or order numbers.

(*) When 300 handwritten numeric characters (30 characters × 10 lines) on one A4 (landscape) sheet are recognized

OCR2000i model 10000 OCR and sorter system

TG01 Windows® Phone for European Market

TG01 Windows® phone for European market

The TG01 Windows® phone is the successor to the previous TG01 model launched in June 2009, upgraded with the new Windows Mobile® 6.5 operating system. The new TG01 Windows® phone offers a richer browsing experience with its new finger-friendly touch interface, and provides advanced mobile Internet functionality with integrated Web-based services such as Microsoft® My phone (a service to synchronize and back up text messages, photos, and contact addresses on the device via the Web) and Windows® Marketplace for Mobile (a marketplace for browsing and purchasing mobile applications on the Web).

The TG01 Windows® phone was launched in Europe by three major European operators beginning in October 2009, together with an update to the new Windows Mobile® 6.5 operating system for existing owners of the TG01.

Microsoft, Windows and Windows Mobile are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

T003 CDMA2000 1xEV-DO Cellular Phone for Japanese Market

T003 CDMA2000 1xEV-DO cellular phone

Toshiba has developed the T003 model code division multiple access (CDMA) 2000 1x evolution data only (EV-DO) cellular phone that achieves the world's thinnest(*) profile of 11.6 mm for a waterproof clamshell type cellular phone.

This model offers an abundance of features such as a 3.0-inch full wide video graphics array (FWVGA) (854 × 480 pixels) LCD, one-segment broadcasting ("One-Seg") services, a 3.2-megapixel autofocus (AF) camera, FeliCa electronic payment, and Bluetooth® wireless capability, all in a thin, waterproof body.

Furthermore, the T003 has uneven 3D keypad buttons designed for easy operation, and a four-layer coating is applied to the stainless steel case, conveying a sense of high quality.

(*) As of September 2009 (as researched by Toshiba)

The Bluetooth word mark and logos are owned by Bluetooth SIG, Inc. and any use of such marks by Toshiba is under license.

Notes: Toshiba will transfer its mobile phone business to a new company that will be managed by Fujitsu Limited.
The companies aim to complete the merger by the target date of October 1, 2010.