INNOVATION ***BY DESIGN***

For over 130 years, Toshiba has led the world in developing technology to improve the quality of life. This Made for Life™ commitment is reflected in our family of leading-edge imaging systems for CT, MRI, ultrasound, cath labs, X-ray, and nuclear medicine. From creating our first X-ray tube in 1915 to the introduction of the first dynamic volume CT scanner in 2007, Toshiba continues to build upon its legacy with technological innovation that improves patient care while providing lasting quality for a lifetime of value.

Toshiba —A History of Leadership

1875	Founding of Toshiba
1915	First X-ray Tube
1973	First Real-time Ultrasound Scanner
1989	First Helical CT Scanner
1990	First Tissue Doppler Imaging System
1993	First 1-Megapixel CCD
1997	First Open Superconducting Magnet
2000	First All-Digital Multipurpose X-ray System
2003	First 64-slice CT Scanner
2005	First Compact Dual Plane Cath Lab with Flat Panel Detectors
2007	First Dynamic Volume CT Scanner

Made for Life™

TOSHIBA MEDICAL SYSTEMS CORPORATION

http://www.toshibamedicalsystems.com

MCAXR0160EAB 2010-2 TME/D

Toshiba Medical Systems Corporation meets internationally recognized standards for Quality Management System ISO 9001, ISO 13485.

Toshiba Medical Systems Corporation Nasu Operations meets the Environmental Management System standard, ISO 14001.

Printed in Japan

Winscope Plessart

TOSHIBA

Leading Innovation

REMOTE CONTROL R/F SYSTEM

Winscope Plessart™ EX8

DREX-W20PE8

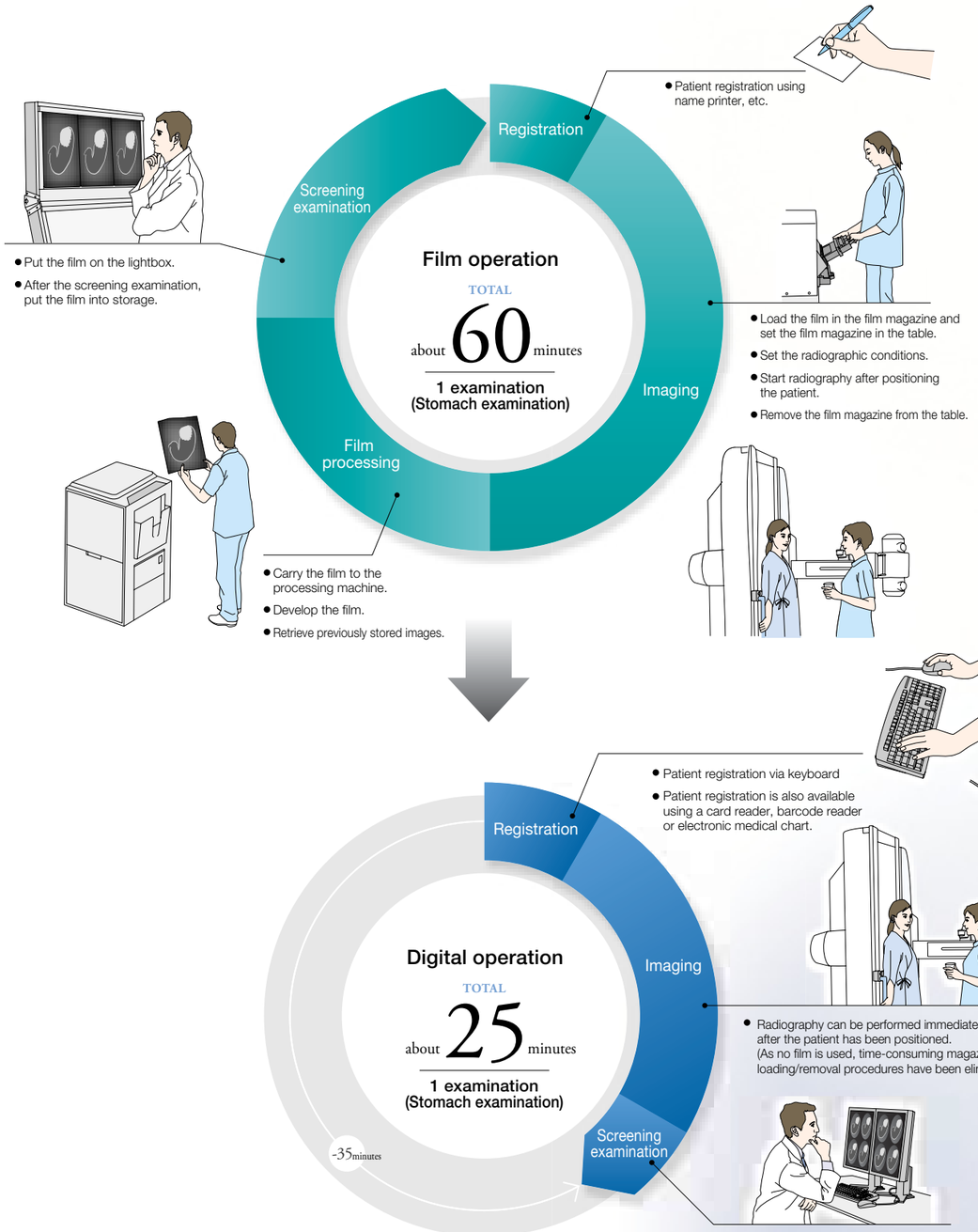
WINSCOPE Plessart provides true digital solutions.

The advanced full-digital system WINSCOPE Plessart acquires high-resolution images with outstanding diagnostic accuracy and fully supports filmless operation.

Winscope **Plessart**

The full-digital X-ray TV system WINSCOPE Plessart provides new clinical value to all users.

Achieve higher throughput with a fully integrated system.
From start to finish, WINSCOPE Plessart reduces the number of steps required to perform exams.
Simplified operation further contributes to a truly streamlined examination environment.



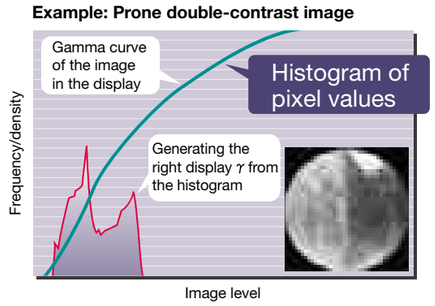
Optimize images with superior processing power

New image processing technologies and high-resolution CCD provide high-quality images free from blackout.

Auto-window function

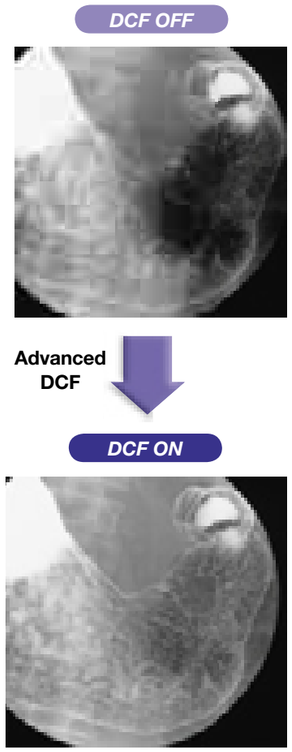
WINSCOPE Plessart's unique auto-window function can automatically generate the optimal gamma curve for the histogram distribution in the acquired image.

Example: Prone double-contrast image



Advanced digital compensation filter (DCF)

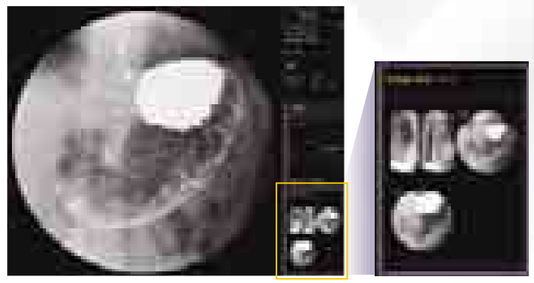
The DCF corrects image density differences to acquire images that are free from blackout.
In examinations such as gastrointestinal and orthopedic radiography, optimal images can always be acquired.



*Sample images

User-friendly monitor layout

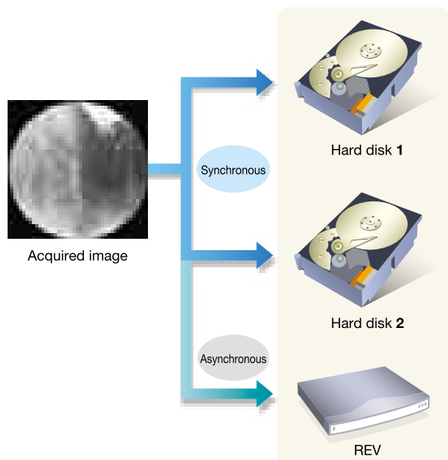
By separating the patient information area and the acquired images area, live monitor is designed to be easy to understand. Separation of text and image allows the technician to concentrate on the examination.



Backup hard disk and REV disk* prevent data loss. MHR** backup further improves data safety.

Acquired images are saved to hard disk and a backup copy is mirrored to a second hard disk in case the first disk fails. Simultaneously saving each image on two separate disks virtually eliminates worries about data loss in the event of the main hard disk malfunctioning.
In addition, a high-speed, large-capacity REV disk is used to back up image data. Valuable image data can be stored long-term on highly reliable external media.

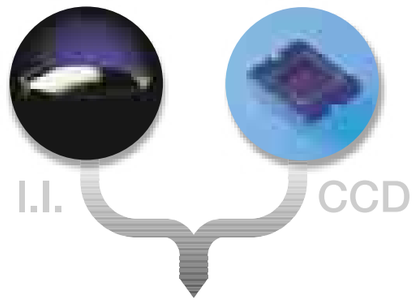
* Removable hard disk
** MHR (Mirroring HDD & REV) backup function



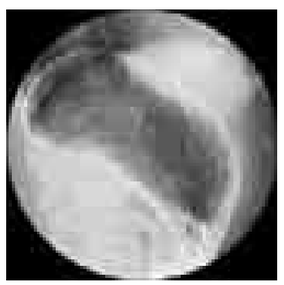
Combination of I.I. and CCD digital camera

The high-performance I.I. and CCD digital camera, with excellent dynamic range characteristics, achieve high DQE*. Compared to film, images can be obtained with smaller X-ray exposure doses, shortening imaging time and producing clear images with minimized blurring.

* DQE (Detective Quantum Efficiency):
An indicator that measures detector effectiveness in capturing X-ray photons and using them for image construction.



Realizing clear images with minimized blur



Comfortable examination with flexible, wide range of table movement

Wide coverage

A large examination range (spot stroke 90 cm + I.I. field of view) makes whole-body examination possible without repositioning the patient.

Dynamic motion facilitates gastrointestinal screening examinations.

The tilt angle of +89° (standing) to -30° (head-down tilt) greatly facilitates gastrointestinal screening examinations. For example, double-contrast imaging of the anterior wall of the stomach can be performed at -30°.

Significantly reduced noise in the examination room

With an improved drive system, noise from table movement is kept to a minimum. The X-ray generator is installed outside the examination room, further reducing noise.

Clear space under the table

Clear space under the table allows easy access to the patient for urological examinations.

Tabletop effectively reduces exposure dose

The flat tabletop is made of a material with very low X-ray absorption, reducing the exposure dose, and with less barium required, screening examination and multipurpose study needs can be efficiently met.

New functions support multipurpose examinations.

2nd tube with ceiling-suspended tube support

By providing the system with additional tube support, a wide variety of examinations can be performed.

DA and DSA function supported for abdominal studies

When the DSA package (option) is included, DA and DSA are available for performing abdominal studies.

Display image of system monitor

X-ray tube angle adjustment for chest examinations

With the table in the upright position, the angle of the X-ray tube can be adjusted for use with a chest X-ray stand. Positioning of the X-ray tube and control of the exposure field can be performed via a switch on the X-ray tube bracket.

Tube rotation from 30° to 90°

X-ray tube movement switch

Comfortable endoscopic/urological screening examinations

The center of the X-ray beam can be moved 45 cm toward either end of the table, enabling easy approach during endoscopic/urological examinations under fluoroscopic guidance.

Real-time display during examinations

Digitally acquired images can be checked in real time. In addition, the images can be displayed on the local control console (option), supporting intraoperative monitoring and permitting the operator to explain images to the patient.

*An additional keypad for the local control console (option) is required.

A range of accessories to maximize patient safety and comfort

Wide footrest

A patient-friendly wide footrest can be mounted on the foot end of the table, providing plenty of space for the patient to stand comfortably.

Barium cup holder

Convenient barium cup holder

New shoulder rests

The shape of the shoulder rests has been improved to comfortably fit the patient's shoulders.

Side protector

A side protector is provided to prevent the patient's fingers from being caught in the system.

Handgrips

Non-slip long handgrips: Long handgrips with a non-slip surface are used. The patient can hold the handgrips easily at any position, increasing safety.

Compression cone

Remote-controlled compression cone

Options

Table mat

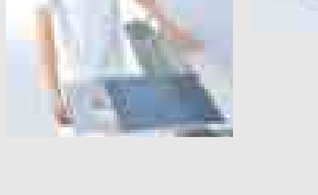
People-friendly materials are used for the table mat, reducing patient discomfort during long examinations.

Motor-driven shoulder rests

The shoulder rests move electrically and stop automatically when the shoulder pads touch the patient's shoulders.

Footswitch

Fluoroscopy and radiography can be performed using this switch.



Urological accessories

A range of urological accessories is available. When these are used, the system is equivalent to specialized urology systems.

Cassette holder

The 35 cm x 43 cm (14" x 17") cassette holder can be used for various types of studies such as barium enema and urological studies.

Comfortable observation flow supported by network transfer

Acquired image data is immediately transferred to the network. In addition, upon completion of the screening examination, images can be shown and explained to the patient. This is the new flow for screening examination, made possible by digital technology.

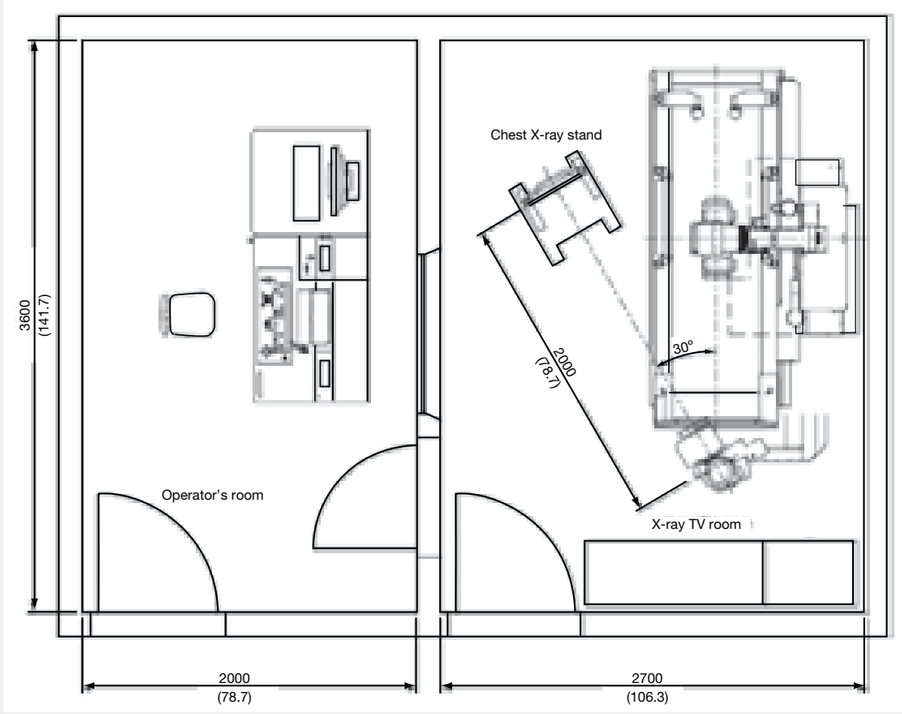
Images freely transferable via the hospital network

A single click transfers acquired images over the network to the image server and viewer located in the consultation room and the reading room. Immediately after completion of the screening examination, the results can be explained to the patient. Images can be placed in electronic medical charts or used for remote medical care via the Internet.

Word standard communication protocol compatible with DICOM storage (option)

DICOM 3.0 image transfer (DICOM Storage) support facilitates the building of full-fledged hospital networks, including HIS, RIS, and PACS.

Layout



Unit: mm (in)