Specifications

Scanning methods: Convex / Micro Convex / Linear

Display mode: B, B/B, B/M, M, PWD, B/PWD, CFM

B-mode:
- Focus method: Transmitting max 3 zone focuses, Receiving max 16 points dynamic focus
- Frequency: 3 selectable
- Tissue Harmonic Imaging: (depend on applicable probe)

M-mode:
- Display control: Up/Down, Right/Left, Angle (only convex probe)
- Display mode: Moving Bar
- Sweep speed: 4 steps

PWD mode:
- Display mode: Moving Bar
- Sweep speed: 4 steps
- PRF: 1 ~ 16KHz (auto setting)

CFM mode:
- Velocity mode: Velocity-Variance mode, Power Doppler mode, Bi-directional Power Doppler mode, Power-Velocity mode

Imaging Control:
- GAIN: 60~100dB continuously variable
- STC: 6 steps, slide volume
- Dynamic Range: 30~90dB, 5dB/step
- Frame correlation: 8 steps
- Post Process: 8 steps
- Color Scale Imaging: 4 types

Calculations:
- Distance, Area, Circumference, Volume
- Cardiac: Volume, Velocity, Heart rate, Left ventricle function
- OB/GYN: Gestation period, Expected delivery Date, Fetal weight
- Doppler: LV in-flow, RV in-flow, PI, RI, AVA, CO, Tei-index

Monitor:
- 10.4in TFT  Color LCD (800 x 600 dots, SVGA)

Image Filing:
- 3.5in  640MB  MO  (JPEG / BMP)

Optional Probes:
- Abdominal, OB/GYN: 60R Convex Probe: 2.5 / 3.5 / 5.0 MHz (FUT-CD602-5A)
- Pediatric Abdominal: 50R Convex Probe: 5.0 / 6.5 / 8.0 MHz (FUT-CD505-8A)
- Adult Cardiology: 15R Micro Convex Probe: 2.5 / 3.5 / 5.0 MHz (FUT-CD152-5A)
- Pediatric Cardiology: 10R Micro Convex Probe: 5.0 / 6.5 / 8.0 MHz (FUT-CD105-8A)
- Superficial Organs: High Frequency Linear Probe: 6.0 / 7.5 / 9.0 MHz (FUT-LD386-9A)
- OB/GYN: Transvaginal Probe: 5.0 / 6.0 / 7.0 MHz (FUT-TVD114-7A)

Wagon (System Trolley): UCW-01

Biological Signal Unit: UF-750XT-BIU

B/W  Video Printer: FVP-800

Color Video Printer: SONY   UP-21MD/SYN

Biopsy Needle Guide Holders:
- (Required the disposable needle guide kits)
  - FUT-PAD10A  (for  FUT- CD105-8A probe)
  - FUT-PAD15A  (for  FUT- CD152-5A probe)
  - FUT-PAD38A  (for  FUT- LD386-9A probe)
  - FUT-PAD50A  (for  FUT- CD505-8A probe)
  - FUT-PAD60A  (for  FUT- CD602-5A probe)

Puncture Adaptor:
- FUT-PVG11A  (for  FUT-TVD114-7A probe)

Power:
- AC 100 ~ 230V  10%, 50/60 Hz
- Power Consumption: Approx. 120VA

External dimensions: 380(W) x 222(D) x 370(H) mm
- Weight: Approx. 13Kg

Options

Guided Needles:
- (Available for Tissue Harmonic Imaging)

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The evoluional, flexible system will surely change the matter-of-fact of diagnosis color flow imaging.

In the progressing evolution of high speed Ultrasound technology, we have created superb image quality through the adoption of programmable digital image processing architecture. Both additional function and digital filtering, which determines image quality, are available through a simple software upgrade. Fukuda Denshi's original technological revolution makes this possible without the restriction imposed by hardware systems.

Incorporating all fruitful results of the research into high image quality and truly required functions for ultrasonic diagnosis, the UF-750XT “Tellus” not only ensures utmost ease of operation but also provides diagnostic accuracy and efficiency with maximum cost-performance. Thoroughly improved S/N ratio and resolution revealing delicate details in clear contrast are made available through various contrivances and the F-XT technology that digitally backs them realizes the high image quality and excellent function.

Adopting a full software architecture, the system can flexibly cope with the needs for digital image filing and networking.
Efficiency
High level performance in a cost effective system

Diagnosis available from various angles
In addition to examination with monochrome images, various modes are provided for more reliable diagnosis; checking blood flow in Color Doppler mode, measurement of blood flow pattern and flow rate in Pulse Doppler mode. Furthermore, the UF-750XT comes standard with the Power Doppler mode suitable for examination of the feeble blood flow and low-speed blood flow which are difficult to grasp in Color Doppler mode.

Look
Intuitive operation for ease-of-use
For concentrated observation of images, simple operation is indispensable. With the UF-750XT, keys and knobs with a slightly larger track ball at the center are designed with the priority given to minimum operation during examination.

Logical
For concentrated observation of images, simple operation is indispensable. With the UF-750XT, keys and knobs with a slightly larger track ball at the center are designed with the priority given to minimum operation during examination.
Useful

Functionality made possible multiple modalities

Cine memory

While not limited to echocardiogram, it is unexpectedly difficult to take timing to freeze images in the patients who cannot restrain breathing. The cine memory can temporarily store maximum 536 frames of images just before freezing, thereby allowing for smooth examination without being nervous about timing to freeze.

*The number depends on examination conditions.

Needle guide

With every probe, the puncture guide line is available on display. The guide line on a ultrasonic image supports safe and sure invading.

Color scaling image

Ultrasonic images which could have been expressed only in grey scale are now available in four types of color scales for easy visual recognition. Recognition of minute differences in contrast is facilitated.

Multi-frequency imaging

The frequency of the probe can instantly switched through panel key operation. Thus, the doctor can successively examine at an optimum frequency without changing the probe according to the constitution of patient or the examination region.

Filing

It is desirable to keep images in a clear condition as at the time of examination. Digital data storage has a merit to enable reproduction of images as clear as examined.

The UF-750XT comes standard with an MO drive for digital data storage. Thus, target data can easily be called up through search based on the data, ID and name if many data are stored. Also, it allows selection of BMP format or JPEG format, which is convenient for compiling information presenting papers at conference.

Tissue Harmonic imaging

Tissue Harmonics are a standard feature in our equipment for imaging. This feature is obtained by filtering and processing of the 2nd harmonic frequency from the received signal. This special processing allows for low artifical and reduced noise. Increasing the contrast resolution gives better definition for visualizing structures on the most difficult patients.