

Product Configurations

OB/GYN Model

C3.5 MHz
EC6.5 MHz

Hepatology

C3.5 MHz
L5.0 MHz

Urology

TR8.0 MHz
C3.5 MHz

Cardiac/Shared Service

C3.0 MHz
L5.0 MHz
L7.5 MHz



DIGISON

Digital Diagnostic Ultrasound System

Serviceability

Designed to be easily serviced.

Electronics contained in a PC sized box that can be easily removed.

Extensive on-board diagnostics for troubleshooting.

PC-based architecture and Windows-based operation enables remote diagnostics and software maintenance.

Specifications

17-inch high resolution LCD color monitor.

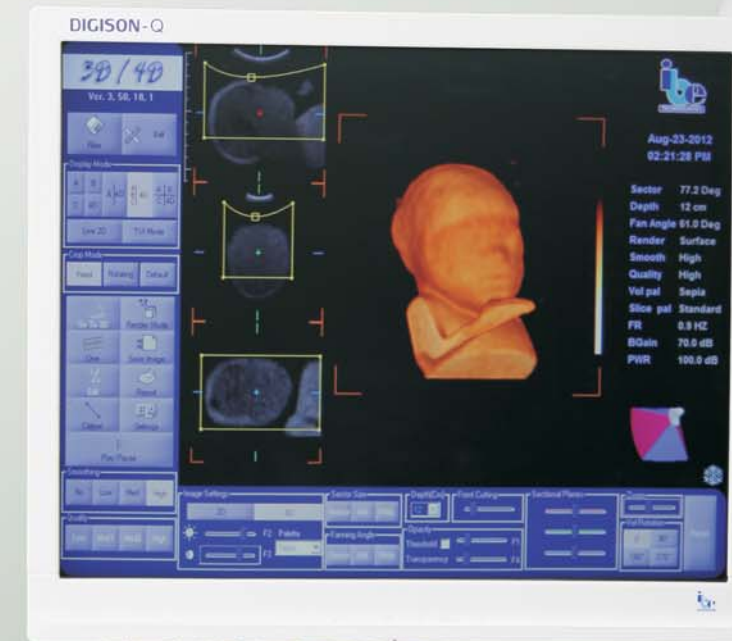
Elastomeric keyboard with 8 sliding TGC controls.

USB connections, 2 front accessible ports.

Connectivity with PC & video printer.

HD 500GB, DVD writer for permanent storage (optional).

Dimensions: 61.5cm W x 70cm D x 140cm H.



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Features

Superb image performance - mid range to high range performance with powerful 3D imaging package at an easily affordable price range.

Multipurpose system addressing abdominal, OB/GYN, vascular, cardiac, small parts and urology applications.

Has two active probe connectors plus one park for a third probe, and supports an extensive probe family for all applications.

Imaging-guided biopsy.

Digital beamforming with high frequency capability, imaging frequencies as high as 15 MHz.

Scanning depth up to 25cm.

256 Gray Scale levels & Gamma Correction.

Adjustable multiple transmit focusing & dynamic receive focusing.

Tissue Harmonic Imaging.

Speckle reduction.

Versatile pre-processing & post-processing tools.

Zooming levels in real time & freeze mode with moving lens capability.

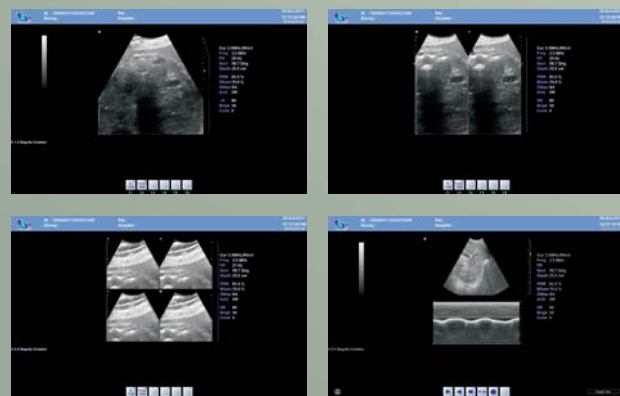
Cine loop for both B & M modes.

Extensive measurement and calculation packages for all modalities with user-programmable tables & formulae.

Sophisticated digital image management and report generation including HTML formatting for web viewing.

DICOM 3.0 compliant (optional).

Windows based for unlimited application flexibility and application support.



Modes of Operation

2D Black & White (B mode)

Pseudo-color (chroma) modes

M-mode with variable sweep rate up to 3 speeds

Extended imaging modes: B/B, Quad B, B/M



3D Imaging

Five volume rendering modes

B/W and color image scanning

TUI (Tomographic Ultrasound Imaging)

Multi-Plane Reforming (MPR)

Cut/oblique planes

Volumetric viewing from any angle

Movie generation

Segmentation tools

Enhancement filters

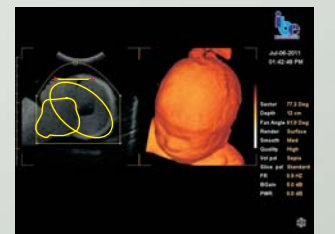
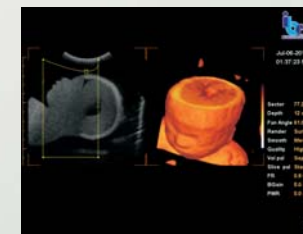
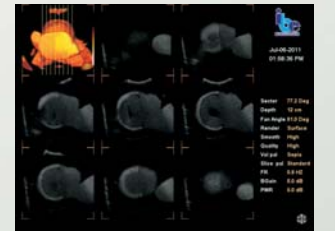
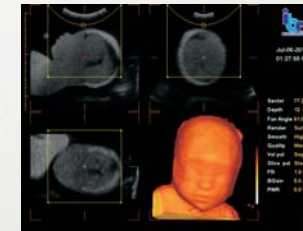
Volumetric measurements

3D image printing

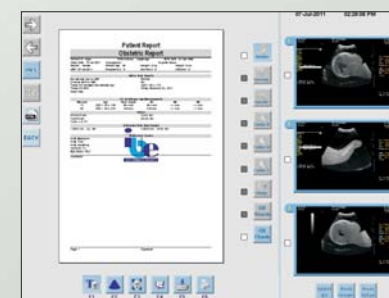
Export images to standard formats

Volume archiving

Advanced editing tools



Calculation Packages & Report Generation



DIGISON has extensive calculation packages for each modality. A state-of-the-art report generator combines digital image management capability, images, calculations, and notes into a well organized report. A user can even design custom reports.



Caliper measurements:
Distances (multiple), Area, Volume

OB calculation package:
User selectable tables for estimating gestational age, fetal weight, growth parameters
Graphic display of growth charts with measurements



Cardiac calculation package:
Volume calculations using multiple methods
Measurements on B-mode and M-mode
Cardiac output and performance ratios by several methods