

In today's clinical environment, you need a machine combined with performance and versatility to help you make more for the patients.

From normal diagnosis and report analysis to video and report record, the patients need more in every stage of their visits than ever before. Emperor Medical makes all the capabilities needed for growing practices to help you expand your clinical applications.

# **Superior Image Quality**

- Superior B-mode Imaging
- ePure Unique Speckle Reduction Technology
- eSpeed One Key Optimization
- eFCI Frequency Compounding Image
- eSCI Spatial Compounding Image
- eView Panoramic Imaging
- Self-adaptive Color Artifact Clearance
- Virtual Trapezoidal Imaging
- Auto Trace Calculation PW
- 2D With Harmonic Imaging
- Pulsed-Wave Doppler
- Power Doppler Imaging
- Multi-Beam Former



With the advanced features of UScan D-3000, you could have more confidence to replace your old ultrasound systems and expand your offerings with an additional system, without limit of constrained budget to be more distinguishing in your area.

# **Improved Productivity**

- · One-button Image Optimization
- Menu Optimization
- Comprehensive Clinical Applications
- Patient Information Management SystemEfficient Workflow to Perform Better and Quicker
- Chartest Variation to reform better and C
- Shortcut Keys for Workflow Facilities
- Easy Data Recording
- Diagnostic Report Generated Automatically
- USB Ports
- DICOM 3.0
- DVD-RW

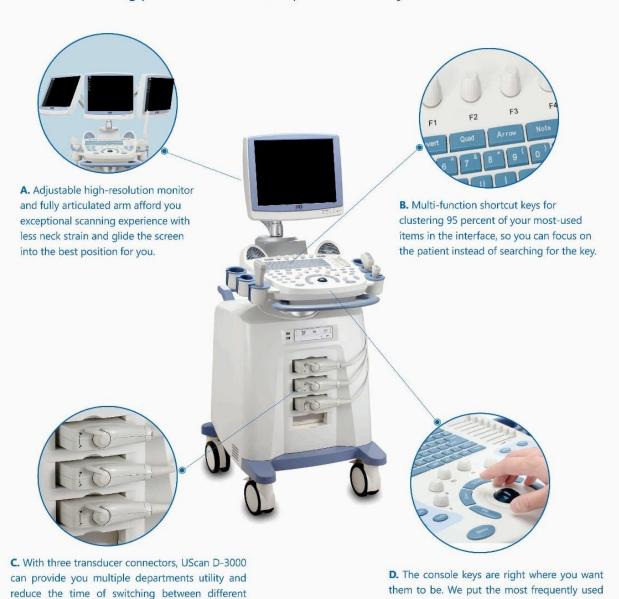
## **More Comfortable & Convenient**

- Adjustable High-resolution LCD Monitor
- Fully Articulated Arm
- Highly Interactive Control Layout
- The Footrest for Stress Relieving
- Integrated Handle for Easy Moving
- Three Transducer Connectors for Multi-applications



We try to make you feel comfortable in every stage of diagnosing, whether sitting or standing, you can make the relevant controls right at your fingertips to experience ease and simple, stress-free operation.

With the fully articulated arm, you are able to move the monitor to facilitate suitable working postures and reduce repetitive stress injuries.



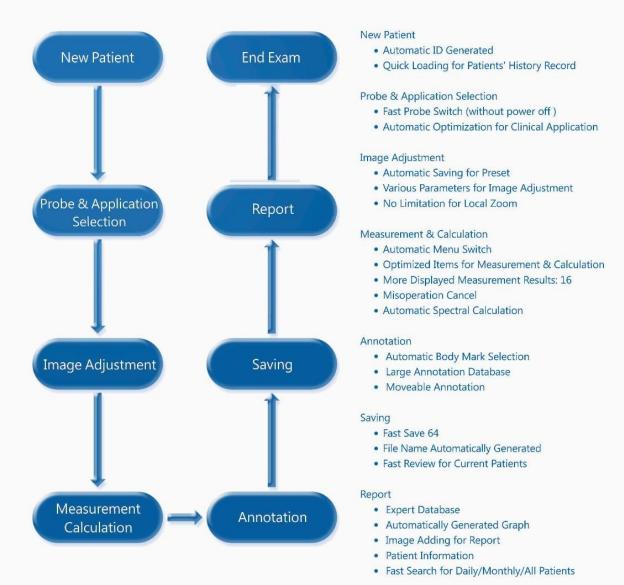
departments.

controls at your fingertips and easy for your

eyes to help reduce reaching and hyperextension for easy learning and memory.

The UScan D-3000 was designed with optimal workflow to help you focus on your patients. With our intelligent and easy learning user interface, you could learn all the advanced imaging and measurement technologies in a fast way.

In addition, the automatic image optimization technology can help you reduce exam time and minimize keystrokes, freeing you from repetitive tasks.



# **Clinical Applications**

#### Gynecology

#### Obstetric

- Early Pregnancy
- Middle-later Pregnancy
- Fetus Cardiology

#### Vascular

- Periphery Artery
- Periphery Vein
- Carotid
- Jugular

#### Abdomen

- Adult Abdomen
- Adult Liver
- Adult Gallbladder
- Adult Spleen
- Kid Abdomen

#### Urology

- Kidney Ureter
- Bladder Prostate

#### Cardiology

- Adult Cardiology
- Kid Cardiology

#### Small parts

- Mammary Glands
- Thyroid
- Eye ball

#### Orthopedics

- Hip Joint
- Meniscus
- Joint Cavity
- Spine

#### Transcranial Doppler

### **Abdomen**





### **Obstetric**



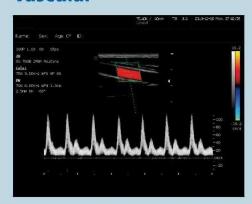


# **Gynecology**





## **Vascular**





# **Image Modes**

M-mode

B-mode

Anatomic M

CFM (Color Flow Imaging)

PW (Pulsed Wave Doppler)

**Duplex for Simultaneous** 

- B+PW
- B+CFM
- B+PDI
- B+CFM Comparasion
- B+PDI Comparasion
- B+Direction PDI

#### Triplex Mode

- B+CFM+PW
- B+PDI+PW

#### Quad Mode

- B+B+B+B
- B/CFM+B/CFM+B/CFM
- B/PDI+B/PDI+B/PDI

### **Technical Specifications**

#### **Basic Technical Parameters**

Probe Working Frequency 2.0 MHz~12.0 MHz

Display Mode B, 2B, 4B, M, B+M, CFM, PDI, B+PW,

B+CFM+PW, B+PDI+PW Dynamic Focusing Type of Focusing

Acoustic Lens Focusing

Launching Multipoint Focusing

Dynamic Apodization Scanning Technique

Dynamic Aperture

Dynamic Frequency Scanning

Multi-Acoustic Beam

Low Noise Preamplifier Pre-processing

> TGC Filtering Frame Average

Line Average Gamma Correction Post Processing

Histogram

Digital Scan Conversion (DSC)

Edge Enhancement Noise Rejection Smooth

Image Optimization Grey Scale Transformation Pseudo-color

Color Persistence etc.

Display Control Freeze/Unfreeze

Left-Right Reverse Up-Down Reverse Polarity Reverse

Picture Rotation (90°/180°/270°)

Color Reverse

Inverse-Frequency Spectrum

Pseudo-Color

Control of Output Acoustic Power

Transformation and

Adjustment on Focus Position

Sound Field Scanning Angle Image Frame Frequency

Impulse Duration, Depth Sampling Area Dimension

Gray Scale 256 Color Scale 24

Frame Rate Max up to 75 f/s ≥ 300 mm Scanning Area

Density of Scanning Lines Max 256 line/frame

Monitor 15" LCD Monitor PAL-D, S-video, NTSC, Composite Video Output

Digital Scan Converter 1024 x 768 x 8 Bits

Body Mark 123 body marks with probe location

2D/CFM: Distance, Area, General Measurement Volume (ellipse method), Angle

> M: Distance, Time, Slope, Heart Rate, Simplified Left Ventricle Function, Complete Left Ventricle Function. PW: Distance, Max Ventricular Gradient,

Average Ventricular Gradient,

Time, S/D Ration, Blood Flow Rate, Acceleration of Blood Flow, Heart Rate,

Pulsate & Drag Index.

No Less than 512 frames

Hard Disk for massive image storage, Image Memory

Min. 10,000 images permanent stored

Biopsy Optional Biopsy Guide Date, Time, Patient Name, Character Device Name, User Name etc. User-Defined Annotation Table, Arrowhead and Body Marks Measurement Software packages of Abdomen,

Obstetrics, Gynecology, Urology, Software Cardiology, Fetal Heart, Orthopedic

Surgery and Superficial Parts;

directly from diagnostic report based on

measurement results

Input Power 200 VA Continuous Working Time ≥ 8 h

990mm (L) x 690mm (W) x 1200mm (H)

Weight N.W.: 65.0 kg

**Technical Parameters of Standard Configured Probe** 

Probe Model No. 3.5CV Probe Frequency 2.0-6.0 MHz Probe Type Electronic convex

**Block Diagram** 

Cineloop

This equipment is mainly composed of main unit, probe and monitor. Optional probes. Convex probe 3.5CV, Linear Probe 7.5LVS,

Micro-Convex Probe 3.5MC and Transvaginal Probe 6.5VMC.

**Application Scope** 

This equipment is applied to clinics with ultrasound diagnostic facility.

Inapplicability

This equipment is not applied for the examination of the viscera with air, like lung, stomach, intestines.

When the optional transvaginal probe is applied, patients with below symptoms are forbidden to conduct examination: vaginitis, including trichomonas vaginitis, colpomycosis, and veneral disease, virgin, vaginal disfiguration, menstrual period, postmenopausal atrophic

vagina, vaginal hemorrhage, placenta praevia and so on.

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