



EDAN

A world of potential

Color Doppler Ultrasound System

-- U50 *prime edition*



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Color Doppler Ultrasound System

U50

Superior Value and Versatility



Certificate: CE、FDA



Standard configurations

Standard Configuration including:

- Main Unit
- 12.1 inch LCD monitor
- Two standard transducer connectors
- Pulsed Wave Doppler
- Continues Wave Doppler
- Color Doppler Imaging
- Directional Power Doppler Imaging
- Phased Inversion Harmonic Compound Imaging
- Spatial Compounding Imaging
- Speckle Reduction Imaging
- Measurement and calculation software packages
- Multi-language software packages
- Multi-Pseudo color
- Convex array transducer C352UB(2.5/3.5/4.5/H2.5/H2.7MHz, 128 elements)



Transducer

With more than ten years of experience in transducer design and manufacturing, Edan offers a comprehensive suite of high-performance transducers with outstanding quality and reliability.

Convex array:
C352UB



Linear array:
L742UB



Linear array:
L552 UB



Micro-Convex array:
C612UB



Micro-Convex array:
C422 UB



Linear array:
L1042UB



Endovaginal:
E612UB



Transducer

L742UB

C352UB

C612UB

C6152UB

C422UB

E612UB

Select the Probe		Select the Probe		Select the Probe	Select the Probe
L742UB	C352UB	C612UB	C6152UB	C422UB	E612UB
					
Thyroid Breast Carotid PV Vein PV Artery MSK Superficial Testicle	Abdomen Abd Difficult Urology Gynecology Obstetric 1/3 Obstetric 2/3 Fetal Cardiac Aorta	Pedia Abd Pedia Cardiac	Pedia Abd Pedia Cardiac	Abdomen Adult Cardiac Pedia Abd	Endovaginal Endorectal
OK	Cancel	OK	Cancel	Cancel	OK



Transducer

Abdomen and OB/GYN

NEW state-of-the-art **C5-2b** transducer

- Advanced transducer technologies
- Superb penetration and resolution

Improved spectral Doppler

- Better sensitivity
- NEW HPRF for high-velocity flow at depth

Available only on U50 *prime edition* system



Transducer

Small Parts, Breast, MSK

NEW high-frequency **L15-7b** transducer

- Excellent contrast and detail resolution for superficial imaging

Improved spectral Doppler

- Improved sensitivity for low volume, low velocity flow

Available only on U50 *prime edition* system



Transducer

Cardiac Scanning

NEW phased-array **P5-1b** transducer

- State-of-the art cardiac image quality
- Excellent lateral resolution
- 17cm of harmonic penetration

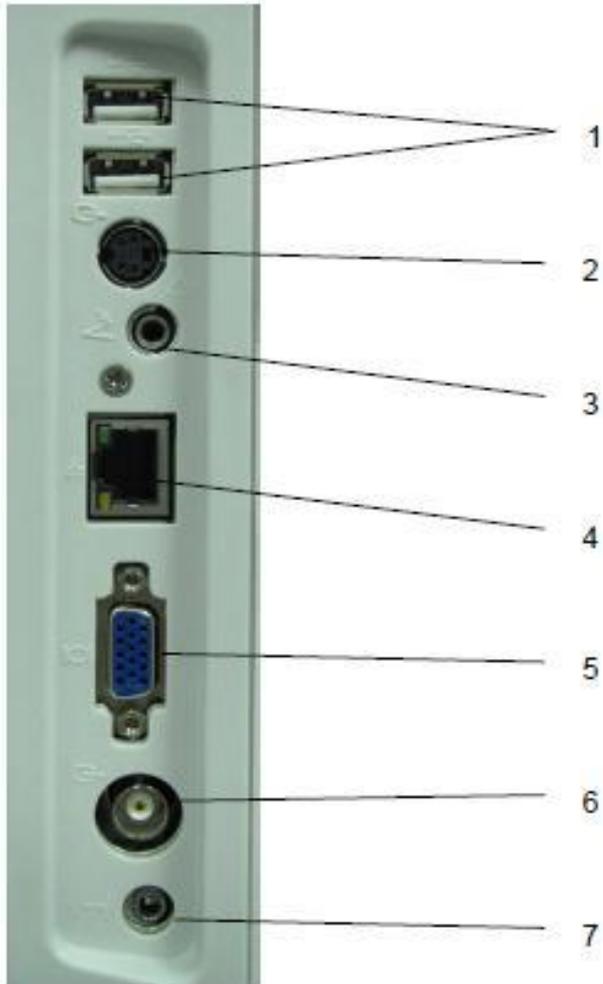
NEW CW Doppler capability

- Excellent performance for high-velocity jets

Available only on U50 *prime edition* system



Peripheral Ports



Peripheral ports:

- | | | | |
|---|--------------------------|---|--------------------------|
| 1 | USB ports | 5 | VGA output port (15 pin) |
| 2 | S-Video output port | 6 | Video output port |
| 3 | Footswitch port | 7 | Remote port |
| 4 | Network port (DICOM 3.0) | | |



Other Accessories

- Needle-guided brackets for transducers
- Integrated hard disk
- Video printer
- Laser printer
- Inkjet printer
- Footswitch
- Li-ion battery
- Mobile trolley
- Hand carried bag
- DICOM3.0
- UMS100 workstation software



Clinical Applications



Abdominal



Obstetrics



Cardiac



Urology



Pediatrics



Gynecology



Small Parts



Peripheral Vascular

The U50 offers a wide range of advanced clinical applications to address all of your imaging needs. Practical clinical tools and calculations packages improve information access for increased diagnostic confidence.



Technologies

The U50 incorporates advanced imaging technologies traditionally available only on premium-priced systems. Phase inversion harmonic imaging, multi-beam, speckle reduction and spatial compounding technologies are all standard on the U50, providing increased diagnostic confidence.



- **Multi-Beam-Forming**
- **Phased Inversion Harmonic Compound Imaging**
- **Speckle Reduction Imaging**
- **Spatial Compounding Imaging**



Technologies



eSRI Speckle Reduction Technology

Spatial Compounding Imaging



Multi-Beam Forming Technology

Phase Inversion Harmonic Imaging



Images Quality

■ Obstetric & Gynecology



Fetal aortic arch



Four-chamber heart



25 weeks



Color Doppler - umbilical cord



Endovaginal - IUD



Endovaginal - Uterus and Ovary

Images Quality

■ Small Parts & Musculoskeletal



Complex Thyroid Mass



Testicle



Breast



Baker's Cyst



Femoral Cartilage

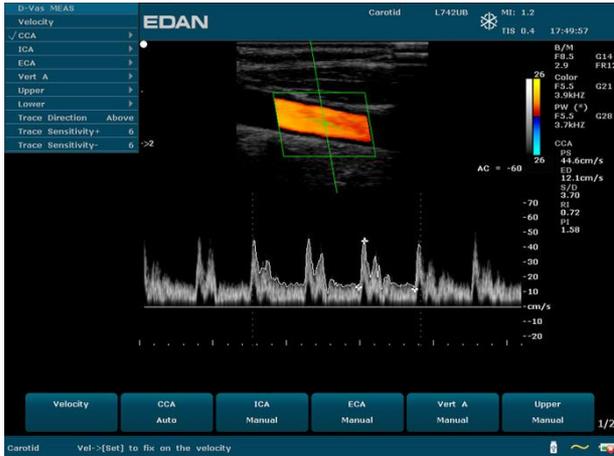


Subluxation - Biceps Tendon

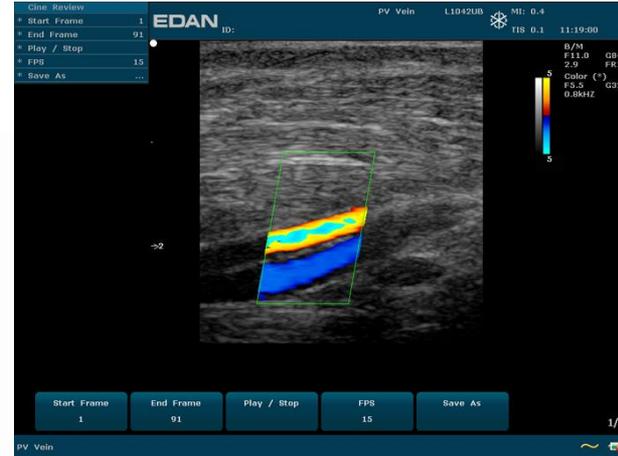


Images Quality

Vascular



Carotid auto Doppler



Color Doppler - lower extremity



Carotid, Jugular



Popliteal Vein and Artery



Workflow

Enhanced workflow : ease-of-use

- Image Type control
- Flow Type control

Workflow Improvements

- Ability to save/export presets and transfer to another system
- Ability to save report as .pdf file.
- Date-of-birth added to Begin Screen – calculates age for user.
- DICOM : user can store and send DICOM files using the Save Image hard key.



B-mode Image Type

■ Detail

Appropriate for average size patients

■ Soft

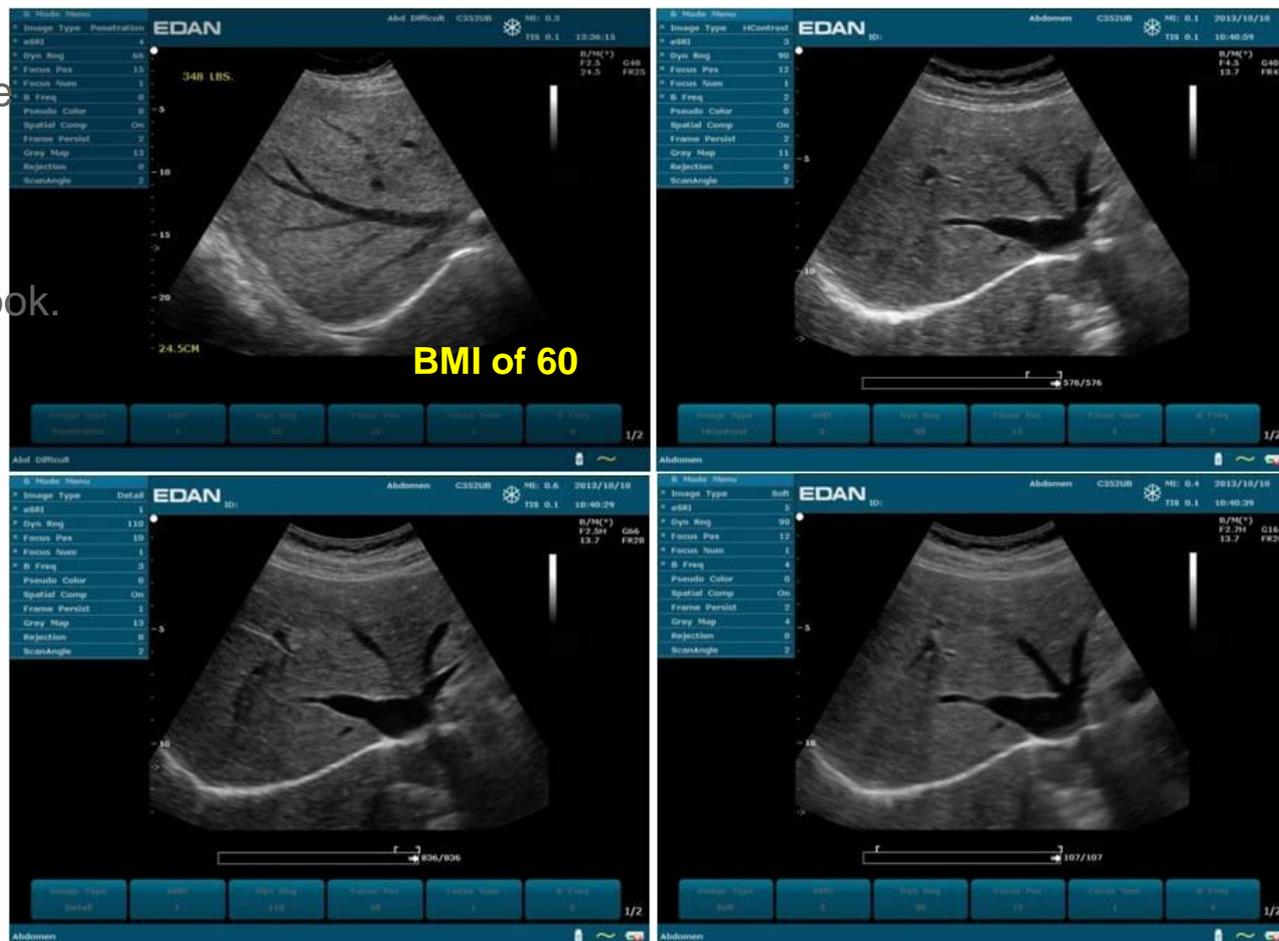
Provides a smooth image look.
Best when there is limited patient motion

■ Hcontrast

Appropriate for vascular.
Enhances borders and detection of the intima

■ Penetration

Appropriate for technically-difficult-to-image (large) patients



Color Doppler Image Type

Low Flow

Appropriate for small blood vessels i.e. kidney, thyroid, breast

Medium Flow

Appropriate for peripheral artery, hepatic vessels

High Flow

Appropriate for aorta, CCA



Spectral Doppler Image Type

Low Flow

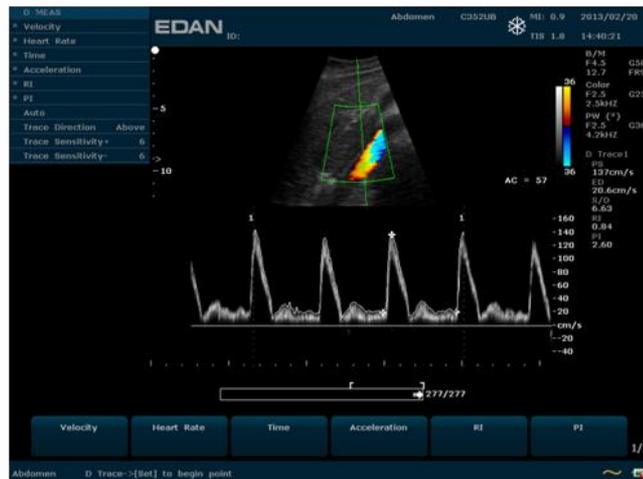
Appropriate for small blood vessels i.e. kidney, thyroid, breast

Medium Flow

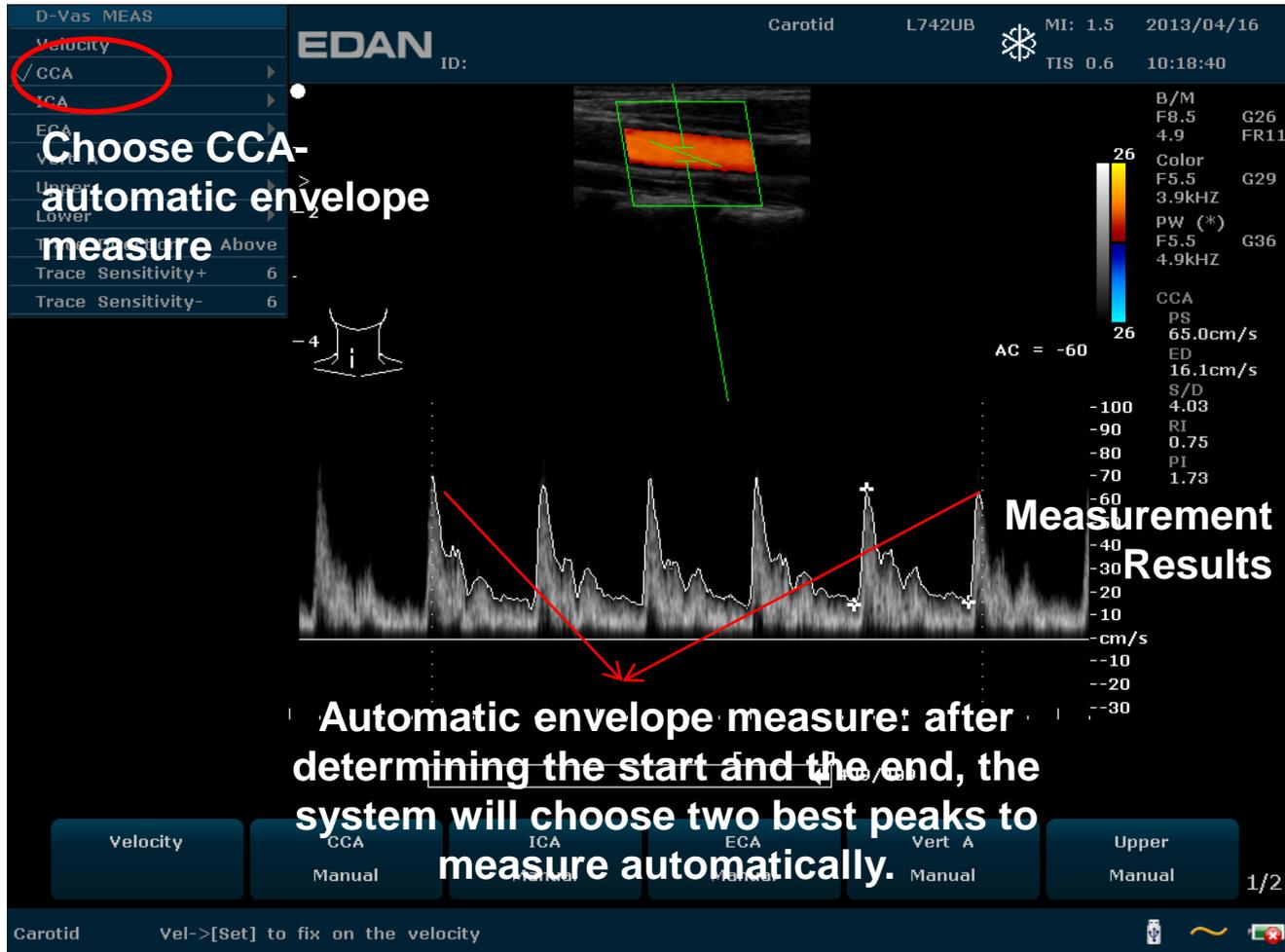
Appropriate for peripheral artery, hepatic vessels

High Flow

Appropriate for aorta, CCA



Auto trace measurement



Workflow

Home-base user-interface

Image Parameter Preset

C352UB

Exam Mode

- Abdomen
- Abd Difficult
- Urology
- Gynecology
- Obstetric 1/3
- Obstetric 2/3**
- Fetal Cardiac
- Aorta

B M Color PDI PW Others

Flow Type: M Flow

C Freq: F1 Packet Size: 12

C Gain: 40 Smooth filter: 7

C PRF: 3 Persist: 1

C WallFilter: 4 Threshold: 15

C Compress: 1 T-Velocity limit: 10

D-Velocity Limit

D-Power Limit

ROI Depth

ROI Size

ROI Color

OK

Comment Library

Abd OB Sml Gyn Ped Card Uro Vas

LT	RT	THY	PARATHY	IS
SUP.THY.A.	SUP.THY.V.	INF.THY.A.	INF.THY.V.	BR
TES	EPID	SPERM V.	HIP	KNEE
ACL	PCL	SHOUL	ELBOW	MUSCLE
POP F	NODE			

Close

Move the cursor on a comment item and press [Set] to select

Body Mark

Abd OB Sml Gyn PED Car Uro Vas



Frequently-used body marks

more

Close

Press [Set] to select the body mark

Body Mark

Abd OB Sml Gyn PED Car Uro Vas



Other body marks

back

Close

Press [Set] to select the body mark



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THANK YOU

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