

System Description

The Z6 Vet/ Z60 Vet is intended for veterinary use in ultrasound examination and diagnosis.

General Specification

Dimensions and Weight

- Size: 147±5mm×361±5mm×358±5mm (Depth × Width × Height)
- Net Weight: 8.2±0.5kg (without battery, two probe ports)

Electrical Power

Input power

- Voltage: 100-240V~
- Frequency: 50/60Hz
- Input current: 1.5- 0.8A

Battery

- Lithium-ion Battery Pack: 14.8 V \equiv , 6600 mAh
- Charge time: < 3 hours (connected on AC power supply, with the system powered off)
- Endurance time: > 100 min

Boot time

- Boot time: >38 s
- Wake up time (from standby): >7 s

Operating Environment

Ambient temperature: 0°C ~ 40°C

Relative humidity: 30% ~ 85% (no condensation)

Atmospheric pressure: 700 hPa ~ 1060 hPa

Storage & Transportation Environment

Ambient temperature: -20°C ~ 55°C

Relative humidity: 30% ~ 95% (no condensation)

Atmospheric pressure: 700 hPa ~ 1060 hPa

Probe

Probe Types

- Convex array
- Linear array
- Phased array

Scanning Methods

- Electronic convex with extend FOV
- Electronic linear with slant scanning and trapezoid
- Electronic sector

Probe Model

> 3C5P	Convex
> 6C2P	Convex
> 6CV1P	Convex
> 7L4P	Linear
> 7L5P	Linear
> L14-6P	Linear
> CB10-4P	Bi-plane (convex & convex)
> V10-4BP	Convex
> 7LT4P	Linear
> 6LE7P	Linear
> 2P2P	Phased array
> 6LE5VP	Linear
> P7-3P	Phased array

Available Needle-guided Bracket for Probe:

> 6CV1P	NGB-004
> CB10-4P	NGB-004
> V10-4BP	NGB-004
> 6C2P	NGB-005
> 3C5P	NGB-006
> 7L4P	NGB-007
> 7L5P	NGB-007
> 6LE7P	NGB-009
> 7LT4P	NGB-010
> 2P2P	NGB-011
> L14-6P	NGB-016

System Configuration

Standard Configuration

- Display
 - > 15-inch LCD, High-Resolution 1024 x 768
 - > Contrast & Brightness adjustable
 - > Screen Saver: Time and picture presettable

- Angle adjustable: 60°
- Control Panel
 - Alphanumeric Keys
 - Function Keys
 - Knobs
 - User-defined Keys: function presettable
 - 8 segment TGC
 - Trackball: Color& Speed presettable
 - Key Backlight Brightness & Volume presettable
 - Integrated Speakers
- Indicators: Power/Battery/Standby/HDD status
- Handle
- Phase Shift harmonic imaging
- Steer scanning for linear probes (2D Steer)
- iBeam™
- iClear™ (Speckle Suppression Imaging)
- iTouch™
- ExFOV Imaging
- iStation™
- 500G integrated hard disk
- I/O Interfaces
 - Transducer port: 2
 - Power input port: 1 (Connect to the AC power supply)
 - USB port: 4
 - VGA OUT port: 1
 - Video OUT: 1
 - S-Video OUT: 1 (Separate video output)
 - Ethernet port: 1 (Connect to network)
 - Remote control port: 1
 - Equipotential terminal: 1
- Multi-language screen display and control panel overlay
- Application categories
 - Abdomen
 - Cardiology
 - Small Part
 - Vascular
 - Reproduction

Accessories

- Operator's manual
 - Basic Volume
 - Advanced Volume
 - Operation Note
- Gel
- Power cord

- Probe holder
- Dust-proof cover
- Grounded Cable
- Video Printer Remote Cable

System Language

- Software display and keyboard input available: Chinese/English/Russian/Czech/Polish
- Software display available only German/Spanish/French/Italian/Portuguese/Icelandic/Norwegian/Swedish/Finnish/Turkish/Danish/Indonesian
- Control panel overlay available: Chinese/German/Spanish/French/Italian/Portuguese/Russian/Czech/Polish

Options

- CW module
- ECG module
- iScape View
- Free Xros M (Anatomical M)
- Color/Power
- PW
- Smart 3D
- TDI
- Color M
- Natural Touch Elastography
- iNeedle
- IMT
- DICOM basic
 - Task management
 - DICOM storage
 - DICOM print
 - DICOM storage commitment
 - DICOM media storage (including DICOM DIR)
- DICOM Worklist
- DICOM MPPS
- DICOM Query/Retrieve
- Battery Pack
- External DVD drive
- Footswitch:
 - 971-SWNOM (2-pedal or 3-pedal)
- Mobile trolley: UMT-150
 - Weight: 22 kg
 - Width: 445 mm
 - Depth: 535 mm

- Height: selective (not available after installed): 810 mm, 870 mm, 2 levels
- Mobile trolley: UMT-160
 - Weight: 21 kg
 - Width: 616 mm
 - Depth: 702 mm
 - Height: selective (not available after installed): 1247 mm, 1147 mm, 2 levels
- Carrying Case
- Network accessory package
- Probes
- Needle-guided brackets

Peripherals Supported

- Black and White Video Printer
 - SONY UP-X898MD Analog
 - MITSUBISHI P93W-Z Analog
- Graph / text printer
HP OFFICEJET PRO 8100
- LAN Accessory
LPA11

Exam Mode

- ABD
- SMP
- REP
- Cardiac
- Vascular
- MSK

Imaging Mode

- B-Mode
 - Tissue Harmonic Imaging
 - Phase Shift Harmonic Imaging
- Slant scanning for linear probes (B, color/power, PW/CW independent)
- ExFOV Imaging for Convex Probe (trapezoid imaging for linear probe)
- M Mode
- Color Mode
- Power Mode
- PW (Pulse Wave Doppler)
- CW (Continuous Wave Doppler)
- Color M
- Free Xros M Mode

- TDI (Tissue Doppler imaging)
 - TVI (Tissue Velocity Imaging)
 - TEI (Tissue Energy Imaging)
 - TVD (Tissue Velocity Doppler Imaging)
 - TVM (Tissue Doppler Velocity M Mode)
- iScape™ (iScape View)
- Smart 3D
- Natural Touch Elastography
- Display Mode:
 - Single window
 - B/C/D triplex mode
 - Dual live: B/C, B/TDI
 - Adjustable time line display format (V1:1, V1:2, V2:1, Full)
 - Dual-split: B/C, B/TDI, B/M, B/PW
 - Quad-split

Imaging Features

- iBeam™ (Spatial Compounding Imaging for Linear and Convex Probe)
- iScape™
- Multi-frequency probes for 2D imaging modes
- iClear™ (adaptive speckle suppression imaging for all probes)
- iTouch™ (B/PW): Auto Optimization
- TSI (Tissue Specific Imaging)
- iZoom™
- Spot Zoom and Pan Zoom

B Mode

- Display Depth
 - Minimum: 0.9 cm
 - Maximum: 38.8 cm
- Frame rate (Max.):
 - B mode: 400 fps (2P2P)
- Adjustable focus number: 4
- Adjustable focus positions (Max.): 16
- Magnification factor:
 - Spot Zoom: continuously adjustable
 - Pan Zoom: 80%-1000%
- iZoom: instant full screen view, two levels
- System dynamic range: 30~220, 5/step
- Gain: 0~100dB
- TGC: 8
- LGC: 8
- Colorize: on/off

- Tint map: Off, 1~25
- Gray map: 1~25
- FOV: On/ Off, continuously adjustable
- ExFOV: On/ Off (Trapezoid imaging for linear probe)
- Persistence: 0~7
- Rotation: 0°/90°/180°/270°
- L/R, U/D Flip: Left/ Right
- Gray invert: On/ Off
- Line Density: L, M, H, UH
- iTouch Bright: -12~12dB, 3db/step
- A.power: 32steps
- TSI: General, Fat, Fluid, Muscle
- Steer: 3 levels, linear probe only
- HScale: On/ Off
- Middle line: on/ off
- iClear: On/ Off, 1~4
- iBeam: On/Off
- Gray Invert: On/ Off
- Auto Merge: On/ Off, linear probe
- iNeedle
 - Needle steer: 9 levels
 - B/iNeedle: On/ Off

M Mode

- Gain 0-100dB, 51 levels
- A.Power: 32 levels
- Speed: 1~6
- Edge Enhance: 0~14
- M Soften: 0~14
- Dynamic range: 30~220, 5/step
- Gray map: 1~25
- Tint map: Off, 1~25
- Display format: V1:1, V2:1, V1:2, Full

Color Mode

- Frame rate (Max.): 405 fps (2P2P)
- PRF (kHz): 0.1 (2P2P)~ 15.4 (L14-6P)
- Flow velocities (cm/s, probe dependent): 1.0 (2P2P)~ 262.9 (2P2P)
- Gain: 0~100, 2/step
- Baseline: -8~8
- Scale: 30 levels
- Persistence: 0~4
- Smooth: 0~4
- ROI adjustment: continuously
- Map: V0~V10; VV0~ VV9

- Priority: 0%~100%, 11 levels
- WF: 0~7
- Line Density: L, M, H, UH
- Dual Live: On/ Off
- Invert: On/ Off
- B/C Align: On/ Off
- Packet Size: 0~3

Power Mode

- Dynamic Range: 10~70, 5/step
- Power Map: P0~P3; dP0~dP3

PW/CW Mode

- PRF (kHz)
 - PW: 0.7 (7L4P)~ 24.0 (2P2P)
 - CW: 0.4 (2P2P)~ 160.0 (2P2P)
- Flow velocities (cm/s, probe dependent):
 - PW: 0.04 (L14-6P)~ 924 (2P2P)
 - CW: 0.03 (2P2P)~ 6160 (2P2P)
- Gain: 0~100, 2/step
- Baseline: -4~4
- PRF/Scale: 30 levels
- Audio volume: 0~100%, 2%/step
- Angle: -89°~89°
- Quick Angle: -60°~60°
- SVD (CW focus depth): continuously
- Speed: 1~6
- iTouch (PW): On/Off
- SV:
 - 0.5~3 mm, 0.5 mm/step
 - 3~5 mm, 1 mm/step
 - 5~10 mm, 2.5 mm/step
 - 10~20 mm, 5 mm/step
- Dynamic range: 24~72, 2/step
- Gray map: 1-25, 1/step
- Colorize: on/off
- Tint map: on/off, 1-25, 1/step
- WF: 0~6
- Duplex/Triplex: On/ Off
- T/F Res: 0~4
- Auto Calc: On/ Off
- Auto Calc Cycle: 1~5
- Auto Calc Param: setting auto spectrum calculation results
- Trace Area: Above/ Below/ All

Smart 3D

- Reset: reset all, reset curve, reset orientation

- Accept VOI: on/off
- Render modes: Surface, Max, Min, X-ray
- Direction: D/U, U/D, L/R, R/L, F/B, B/F (D: down, U: up, L: left, R: right, F: front, B: back)
- Threshold: 0%-100%, 1%/step
- Opacity: 0%-100%, 5%/step
- Smooth: 0-10
- Brightness: 0%-100%, 2%/step
- Contrast: 0%-100%, 2%/step
- Tint: 0-25
- iClear: Off, 1-4
- Rotation control: X, Y, Z axis

TDI


Available on phased array transducer

TVI/TEI

- Line density: L, M, H, UH
- Smooth: 0~4
- Persistence: 0~4
- Packet size: 0~3
- Dynamic range: 10~70, 5/step (TEI only)
- B/C Align: On/ Off
- WF: 0~7
- Priority: 0%~100%
- Baseline: -8~8, 1/step (TVI only)
- Invert: On/Off
- Map: TVV1-TVV10 (for TVI only)
P0~P3, dP0~dP3 (for TEI only)
- Dual live: On/ Off
- PRF (kHz): 0.1 (2P2P)~13.7 (2P2P)
- Frame rate (Max.): 405 fps (2P2P)
- Flow velocities: (cm/s, probe dependent): 1 (2P2P)~ 262.9 (2P2P) (for TVI only)

TVD

- Quick angle: 0°, -60°, 60°
- Angle: -89°~89°
- PRF (kHz): 0.7 (2P2P)~24 (2P2P)
- Flow velocities (cm/s, probe dependent): 10.8 (2P2P)~924 (2P2P)

 For details about TVM parameters, please refer to M mode and TVI mode imaging.

iScape

- Fit size
- Rotation: 0~355
- Actual size
- Review cine
- Ruler: On/ Off

- Tint map: Off, 1~25

Natural Touch Elastography

Only the 7L4P probe in SMP or MSK exam mode supports Natural Touch Elastography

- Single E: On/ Off
- Invert: On/ Off
- Opacity: 0~5
- Map: E0~E5
- Smooth: 0~5

Display Annotations

- Manufacturer logo
- Hospital name: up to 64 characters can be displayed
- Exam date: 3 types selectable, YY/MM/DD, MM/DD/YY, DD/MM/YY
- Exam time: 2 formats
- Acoustic output indices: MI, TIC, TIS, TIB
- Freeze icon
- Gender
- Age
- Animal: Dog/ Cat/ Equine/ Bovine/ Ovine /Other
- Animal ID: up to 64 characters can be displayed
- Other ID: up to 64 characters can be displayed
- Name: up to 64 characters can be displayed
- No.
- Host
- Probe model
- Current exam mode
- Accession#
- Operator: up to 64 characters can be displayed
- Menu
- Image
- Probe orientation mark
- Time line
- Coordinate axis, including depth, time, frequency
- TGC curve
- Focus
- Comment
- Body Mark
- Measure caliper
- Gray/color scale bar
- Thumbnail
- Help information
- Status icons

- Biopsy guideline
- Measure result window (up to 8 results can be displayed)
- Image parameters

Comments and Body Mark

Comment

Text comment

- Comment text for all exam modes
- Custom: add/delete/edit comment units in current menu.

Arrow

- Arrow size
- Arrow position
- Arrow orientation

Body Mark

Application package

- Body marks for all exam modes:
- Custom: import/delete body marks

Storage/ Connection

- 500G integrated hard disk
- External DVD-R/W
- 4 USB ports
- Image archive on hard disk, DVD, Medsight, network storage (iStorage) or temporary saving in cine memory
- Clipboard
- Thumbnail
- Single-frame image formats: BMP, JPG, TIFF, DCM, FRM (supports off-line analysis)
- Multi-frame images formats: AVI, DCM, CIN, (supports off-line analysis)
- Storage area:
 - Image area: 640*522
 - Standard area: 800×600
 - Full-screen: 1024×768
- iVision: Demo player
- Cine review: Auto, Manual (auto review segment can be set), supports linked cine review for 2D, M/D images.
- Cine memory capacity (Max.)
 - Clip length presettable: 1-60s
 - B mode: 6197 frames

- M mode: 90.5 s
- PW/CW: 84.8 s
- Color: 1744 frames
- Max. frames in HDD (B mode)
 - BMP: 197887
 - FRM: 57847
- iStorage
- DICOM:
 - DICOM Basic
 - Task management
 - DICOM storage
 - DICOM print
 - DICOM storage commitment
 - DICOM media storage (including DICOM DIR)
- MedSight
 - An interactive app that lets you transfer clinical images straight from Mindray Ultrasound system to a smart device, such as mobile phone or tablet PC.
 - Needs to be installed on mobile terminal
 - Transfer images or clips from system to mobile terminal through WiFi
 - Support Android/iOS powered system.

iStation™

Intelligent animal data management system

- Integrated search engine for animal data
- Detailed animal information view
- Intelligent data backup/ restore
- Animal data/ image sending
- animal data deleting
- Exam managing: create new exam, activate exam and continue exam
- Recycle Bin
- Task manager

Measure/Calc/Study

General

Application

B-Mode

- Distance
- Ellipse
- Trace
- Spline
- Cross

Angle	Vel
Double Dist	HR
Trace Len	Time
Trace Len(Spline)	Acceleration
Parallel	D Trace
B-Profile	-----
B-Hist(Ellipse)	Volume Flow
B-Hist(Trace)	Vas Area
B-Hist(Spline)	TAMEAN
B-Hist(Rectangle)	TAMAX
Depth	Abdomen
Color Vel	B-Mode
Color Vel Profile	Liver
IMT	Renal L
-----	Renal H
Volume	Renal W
Volume(Ellipse)	Cortex
Volume(E+Dist.)	Adrenal L
Ratio(D)	Adrenal H
Ratio(Ellipse)	Adrenal W
Ratio(Spline)	CBD
Ratio(Cross)	Portal V Diam
-----	CHD
Volume	GB L
Volume	GB H
Volume(Ellipse)	GB wall th
Volume(E+Dist.)	Panc duct
Ratio(A)	Panc head
Ratio(Trace)	Panc body
Ratio(Ellipse)	Panc tail
Ratio(Spline)	Spleen
Ratio(Cross)	Aorta Diam
Volume Flow	Aorta Bif
Vas Area	Iliac Diam
TAMEAN	Pre-BL L
TAMAX	Pre-BL H
M-Mode	Pre-BL W
HR	Post-BL L
Slope	Post-BL H
Distance	Post-BL W
Time	Ureter
Velocity	-----
D-Mode	Renal Vol
PS/ED	Pre-BL Vol
	Post-BL Vol
	Mictur.Vol

Kidney

- Renal L
- Renal H
- Renal W
- Cortex

Bladder

- Pre-BL L
- Pre-BL W
- Pre-BL H
- Post-BL L
- Post-BL W
- Post-BL H

Adrenal

- Adrenal L
- Adrenal W
- Adrenal H

D-Mode

- Ren A Org
- Arcuate A
- Segment A
- Interlobar A
- Renal A
- M Renal A
- Renal V
- Aorta
- Celiac Axis
- SMA
- C Hepatic A
- Hepatic A
- Splenic A
- IVC
- Portal V
- M Portal V
- Hepatic V
- Lt Hepatic V
- Rt Hepatic V
- M Hepatic V
- Splenic V
- SMV

Bovine OB

B-Mode

- Bovine CRL
- Bovine TD
- Bovine HD

Dog OB

B-Mode

- Dog CRL
- Dog GS
- Dog HD
- Dog BD

Equine OB

B-Mode

- Equine GS-H
- Equine GS-V

Feline OB

B-Mode

- Feline BD
- Feline HD

Ovine OB

B-Mode

- Ovine CRL
- Ovine BPD

Cardiology

B-Mode

- LA Diam(2D)
- LA Major
- LA Minor
- RA Major
- RA Minor
- LV Major
- LV Minor
- RV Major
- RV Minor
- LA Area
- RA Area
- LV Area(d)
- LV Area(s)
- RV Area(d)
- RV Area(s)
- LVIDd(2D)
- LVIDs(2D)
- LVIDd(Teich-2D)
- LVIDs(Teich-2D)
- LVIDd(Cube-2D)
- LVIDs(Cube-2D)
- LVIDd(Gibson-2D)
- LVIDs(Gibson-2D)
- RVDd(2D)
- RVDs(2D)
- LVPWd(2D)

LVPWs(2D)
 RVAWd(2D)
 RVAWs(2D)
 IVSd(2D)
 IVSs(2D)
 Ao Diam(2D)
 Ao Arch Diam(2D)
 Ao Asc Diam(2D)
 Ao Desc Diam(2D)
 Ao Isthmus(2D)
 Ao st junct(2D)
 Ao Sinus Diam(2D)
 Duct Art Diam
 Pre Ductal
 Post Ductal
 ACS(2D)
 LVOT Diam(2D)
 AV Diam
 AVA
 PV Diam
 LPA Diam(2D)
 RPA Diam(2D)
 MPA Diam(2D)
 RVOT Diam(2D)
 MV Diam
 MVA
 MCS(2D)
 MV EPSS(2D)
 TV Diam
 TVA
 IVC Diam(Insp)
 IVC Diam(Expir)
 SVC Diam(Insp)
 SVC Diam(Expir)
 LCA Diam
 RCA Diam
 VSD Diam
 ASD Diam
 PDA Diam
 PFO Diam
 PEd(2D)
 PEs(2D)
 Diastole(Teich-2D)
 Systole(Teich-2D)
 Diastole(Cube-2D)
 Systole(Cube-2D)

Diastole(Gibson-2D)
 Systole(Gibson-2D)
 HR(Teich 2D)
 HR(Cube 2D)
 HR(Gibson 2D)

 LA/Ao(2D)
 Ao/LA(2D)

 S-P Ellipse
 LVLd apical(SP Ellipse)
 LVAd apical(SP Ellipse)
 LVLs apical(SP Ellipse)
 LVAs apical(SP Ellipse)
 HR(SP Ellipse)
 B-P Ellipse
 LVIDd(BP Ellipse)
 LVIDs(BP Ellipse)
 LVAd sax MV(BP Ellipse)
 LVAs sax MV(BP Ellipse)
 LVAd apical(BP Ellipse)
 LVAs apical(BP Ellipse)
 HR(BP Ellipse)
 Bullet
 LVLd apical(Bullet)
 LVLs apical(Bullet)
 LVAd sax MV(Bullet)
 LVAs sax MV(Bullet)
 HR(Bullet)
 Mod.Simpson
 LVLd apical(Simp)
 LVLs apical(Simp)
 LVAd sax MV(Simp)
 LVAs sax MV(Simp)
 LVAd sax PM(Simp)
 LVAs sax PM(Simp)
 HR(Mod Simp)
 Simp SP(A2C)
 EDV(Simp SP-A2C)
 ESV(Simp SP-A2C)
 HR(Simp SP A2C)
 Simp SP(A4C)
 EDV(Simp SP-A4C)
 ESV(Simp SP-A4C)
 HR(Simp SP A4C)
 Simpson BP

EDV(Simp BP-A2C)	AV VTI(AVA VTI)
ESV(Simp BP-A2C)	Qp/Qs
EDV(Simp BP-A4C)	AV Diam(Qp/Qs)
ESV(Simp BP-A4C)	AV VTI(Qp/Qs)
HR(Simp BP)	AV HR(Qp/Qs)
Cube(2D)	PV Diam(Qp/Qs)
LVIDd(Cube-2D)	PV VTI(Qp/Qs)
LVIDs(Cube-2D)	PV HR(Qp/Qs)
HR(Cube 2D)	PISA MR
Teichholz(2D)	MR Rad
LVIDd(Teich-2D)	MR Als Vel
LVIDs(Teich-2D)	MR VTI(PISA MR)
HR(Teich 2D)	PISA AR
Gibson(2D)	AR Rad
LVIDd(Gibson-2D)	AR Als Vel
LVIDs(Gibson-2D)	AR VTI(PISA AR)
HR(Gibson 2D)	PISA TR
LA Vol(A-L)	TR Rad
LA Diam(LA Vol A-L)	TR Als Vel
LAA(A2C)	TR VTI(PISA TR)
LAA(A4C)	PISA PR
LA Vol(Simp)	PR Rad
LA Vol(A2C)	PR Als Vel
LA Vol(A4C)	PR VTI(PISA PR)
RA Vol(Simp)	
RA Vol(A4C)	M-Mode
LV Mass(Cube-2D)	LA Diam(M)
IVSd(LV Mass Cube-2D)	LVIDd(M)
LVIDd(LV Mass Cube-2D)	LVIDs(M)
LVPWd(LV Mass Cube-2D)	LVIDd(Teich-M)
LV Mass(T-E)	LVIDs(Teich-M)
LVAd sax Epi(LV Mass T-E)	LVIDd(Cube-M)
LVAd sax Endo(LV Mass T-E)	LVIDs(Cube-M)
a	LVIDd(Gibson-M)
d	LVIDs(Gibson-M)
LV Mass(A-L)	RVDd(M)
LVAd sax Epi(LV Mass A-L)	RVDs(M)
LVAd sax Endo(LV Mass A-L)	LVPWd(M)
LVLd apical(LV Mass A-L)	LVPWs(M)
MVA(VTI)	RVAWd(M)
LVOT Diam(MVA VTI)	RVAWs(M)
LVOT VTI(MVA VTI)	IVSd(M)
MV VTI(MVA VTI)	IVSs(M)
AVA(VTI)	Ao Diam(M)
LVOT Diam(AVA VTI)	Ao Arch Diam(M)
LVOT VTI(AVA VTI)	Ao Asc Diam(M)

Ao Desc Diam(M)
 Ao Isthmus(M)
 Ao st junct(M)
 Ao Sinus Diam(M)
 LVOT Diam(M)
 ACS(M)
 LPA Diam(M)
 RPA Diam(M)
 MPA Diam(M)
 RVOT Diam(M)
 MV E Amp
 MV A Amp
 MV E-F Slope
 MV D-E Slope
 MV DE
 MCS(M)
 MV EPSS(M)
 PEd(M)
 PEs(M)
 LVPEP(M)
 LVET(M)
 RVPEP(M)
 RVET(M)
 Diastole(Teich-M)
 Systole(Teich-M)
 Diastole(Cube-M)
 Systole(Cube-M)
 Diastole(Gibson-M)
 Systole(Gibson-M)
 HR(Teich M)
 HR(Cube M)
 HR(Gibson M)
 HR

LA/Ao(M)
 Ao/LA(M)

LV Tei Index(M)
 MV C-O dur(M)
 LVET(LV Tei Index-M)
 Cube(M)
 LVIDd(Cube-M)
 LVIDs(Cube-M)
 HR(Cube M)
 Teichholz(M)
 LVIDd(Teich-M)

LVIDs(Teich-M)
 HR(Teich M)
 Gibson(M)
 LVIDd(Gibson-M)
 LVIDs(Gibson-M)
 HR(Gibson M)
 LV Mass(Cube-M)
 IVSd(LV Mass Cube-M)
 LVIDd(LV Mass Cube-M)
 LVPWd(LV Mass Cube-M)

D-Mode

MV Vmax
 MV E Vel
 MV A Vel
 MV E VTI
 MV A VTI
 MV VTI
 MV AccT
 MV DecT
 IVRT
 IVCT
 MV E Dur
 MV A Dur
 LVOT Vmax
 LVOT VTI
 LVOT AccT
 AAo Vmax
 DAo Vmax
 AV Vmax
 AV VTI
 LVPEP(Doppler)
 LVET(Doppler)
 AV AccT
 AV DecT
 RVET(Doppler)
 RVPEP(Doppler)
 TV Vmax
 TV E Vel
 TV A Vel
 TV VTI
 TV AccT
 TV DecT
 TV A Dur
 RVOT Vmax
 RVOT VTI

PV Vmax
 PV VTI
 PV AccT
 MPA Vmax
 RPA Vmax
 LPA Vmax
 PVein S Vel
 PVein D Vel
 PVein A Vel
 PVein A Dur
 PVein S VTI
 PVein D VTI
 PVein DecT
 IVC Vel(Insp)
 IVC Vel(Expir)
 SVC Vel(Insp)
 SVC Vel(Expir)
 MR Vmax
 MR VTI
 MS Vmax
 dP/dt
 AR Vmax
 AR VTI
 AR DecT
 AR PHT
 AR Ved
 TR Vmax
 TR Vmax(RVSP)
 TR VTI
 PR Vmax
 PR VTI
 PR PHT
 PR Ved
 RAP
 VSD Vmax
 ASD Vmax
 PDA Vel(d)
 PDA Vel(s)
 Coarc Pre-Duct
 Coarc Post-Duct
 Ea(medial)
 Aa(medial)
 ARa(medial)
 DRa(medial)
 Sa(medial)
 Ea(lateral)

Aa(lateral)
 ARa(lateral)
 DRa(lateral)
 Sa(lateral)
 HR
 AV HR
 MV HR
 TV HR
 PV HR
 LVOT HR
 RVOT HR

 MV E/A
 MVA(PHT)
 TV E/A
 TVA(PHT)

 MVA(VTI)
 LVOT Diam(MVA VTI)
 LVOT VTI(MVA VTI)
 MV VTI(MVA VTI)
 AVA(VTI)
 LVOT Diam(AVA VTI)
 LVOT VTI(AVA VTI)
 AV VTI(AVA VTI)
 LV Tei Index(Doppler)
 MV C-O dur(Doppler)
 LVET(LV Tei Index-Doppler)
 RVSP
 TR Vmax(RVSP)
 RAP
 PAEDP
 PR Ved(PAEDP)
 RAP
 RV Tei Index
 TV C-O dur
 RVET(RV Tei Index)
 Qp/Qs
 AV Diam(Qp/Qs)
 AV VTI(Qp/Qs)
 AV HR(Qp/Qs)
 PV Diam(Qp/Qs)
 PV VTI(Qp/Qs)
 PV HR(Qp/Qs)
 PISA MR
 MR Rad

MR Als Vel
 MR VTI(PISA MR)
 PISA AR
 AR Rad
 AR Als Vel
 AR VTI(PISA AR)
 PISA TR
 TR Rad
 TR Als Vel
 TR VTI(PISA TR)
 PISA PR
 PR Rad
 PR Als Vel
 PR VTI(PISA PR)

Vascular

B-Mode

CCA IMT
 Bulb IMT
 ICA IMT
 ECA IMT

Stenosis D
 Stenosis A

IMT

CCA IMT
 Bulb IMT
 ICA IMT
 ECA IMT

D-Mode

CCA
 Bulb
 ICA
 ECA
 Vert A
 Innom A
 Subclav A
 Axill A
 Brachial A
 Ulnar A
 Radial A
 Subclav V
 Axill V
 Cephalic V
 Basilic V
 Ulnar V

Radial V
 C.Iliac A
 Ex.Iliac A
 CFA
 SFA
 Pop A
 TP Trunk A
 Peroneal A
 P.Tib A
 A.Tib A
 Dors.Ped A
 C.Iliac V
 Ex.Iliac V
 Femoral V
 Saph V
 Pop V
 TP Trunk V
 Sural V
 Soleal V
 Peroneal V
 P.Tib V
 A.Tib V
 ACA
 MCA
 PCA
 AComA
 PComA
 BA
 IIA
 DFA
 Ba V
 Brachial V
 IIV
 CFV
 SFV
 DFV
 SSV
 ASP
 BSP

 ICA/CCA

 ABI
 ASP
 BSP

Small Parts

B-Mode

Thyroid L
 Thyroid H
 Thyroid W
 Isthmus H
 Testicular L
 Testicular H
 Testicular W
 Breast Mass1 d1
 Breast Mass1 d2
 Breast Mass1 d3
 Breast Mass2 d1
 Breast Mass2 d2
 Breast Mass2 d3
 Breast Mass3 d1
 Breast Mass3 d2
 Breast Mass3 d3
 Thyroid Mass1 d1
 Thyroid Mass1 d2
 Thyroid Mass1 d3
 Thyroid Mass2 d1
 Thyroid Mass2 d2
 Thyroid Mass2 d3
 Thyroid Mass3 d1
 Thyroid Mass3 d2
 Thyroid Mass3 d3

 Thyroid Vol

Thyroid

Thyroid L
 Thyroid W
 Thyroid H

Testis

Testicular L
 Testicular W
 Testicular H

Breast Mass1

Breast Mass1 d1
 Breast Mass1 d2
 Breast Mass1 d3

Breast Mass2

Breast Mass2 d1
 Breast Mass2 d2
 Breast Mass2 d3

Breast Mass3

Breast Mass3 d1
 Breast Mass3 d2
 Breast Mass3 d3

Thyroid Mass1

Thyroid Mass1 d1
 Thyroid Mass1 d2
 Thyroid Mass1 d3

Thyroid Mass2

Thyroid Mass2 d1
 Thyroid Mass2 d2
 Thyroid Mass2 d3

Thyroid Mass3

Thyroid Mass3 d1
 Thyroid Mass3 d2
 Thyroid Mass3 d3

D-Mode

STA
 ITA

Urology

B-Mode

Renal L
 Renal H
 Renal W
 Cortex
 Adrenal L
 Adrenal H
 Adrenal W
 Prostate L
 Prostate H
 Prostate W
 Seminal L
 Seminal H
 Seminal W
 Testicular L
 Testicular H
 Testicular W
 Ureter
 Pre-BL L
 Pre-BL H
 Pre-BL W
 Post-BL L
 Post-BL H
 Post-BL W
 Prostate Mass1 d1
 Prostate Mass1 d2
 Prostate Mass1 d3

Prostate Mass2 d1
 Prostate Mass2 d2
 Prostate Mass2 d3
 Prostate Mass3 d1
 Prostate Mass3 d2
 Prostate Mass3 d3
 Testicular Mass1 d1
 Testicular Mass1 d2
 Testicular Mass1 d3
 Testicular Mass2 d1
 Testicular Mass2 d2
 Testicular Mass2 d3
 Testicular Mass3 d1
 Testicular Mass3 d2
 Testicular Mass3 d3

 Renal Vol
 Prostate Vol
 Testicular Vol
 Pre-BL Vol
 Post-BL Vol
 Mictur.Vol

 Kidney
 Renal L
 Renal H
 Renal W
 Cortex
 Adrenal
 Adrenal L
 Adrenal W
 Adrenal H
 Prostate
 Prostate W
 Prostate H
 Prostate L
 Seminal Vesicle
 Seminal L
 Seminal W
 Seminal H
 Testis
 Testicular L
 Testicular W
 Testicular H
 Bladder
 Pre-BL L

Pre-BL W
 Pre-BL H
 Post-BL L
 Post-BL W
 Post-BL H
 Prostate Mass1
 Prostate Mass1 d1
 Prostate Mass1 d2
 Prostate Mass1 d3
 Prostate Mass2
 Prostate Mass2 d1
 Prostate Mass2 d2
 Prostate Mass2 d3
 Prostate Mass3
 Prostate Mass3 d1
 Prostate Mass3 d2
 Prostate Mass3 d3
 Testicular Mass1
 Testicular Mass1 d1
 Testicular Mass1 d2
 Testicular Mass1 d3
 Testicular Mass2
 Testicular Mass2 d1
 Testicular Mass2 d2
 Testicular Mass2 d3
 Testicular Mass3
 Testicular Mass3 d1
 Testicular Mass3 d2
 Testicular Mass3 d3

Orthopedics

B-mode
 HIP
 HIP-Graf
 HIP(α)
 HIP(β)
 d/D

Gynecology

B-Mode
 UT L
 UT H
 UT W
 Cervix L
 Cervix H
 Cervix W
 Endo
 Ovary L

Ovary H
Ovary W
Follicle1 L
Follicle1 W
Follicle1 H
Follicle2 L
Follicle2 W
Follicle2 H
Follicle3 L
Follicle3 W
Follicle3 H
Follicle4 L
Follicle4 W
Follicle4 H
Follicle5 L
Follicle5 W
Follicle5 H
Follicle6 L
Follicle6 W
Follicle6 H
Follicle7 L
Follicle7 W
Follicle7 H
Follicle8 L
Follicle8 W
Follicle8 H
Follicle9 L
Follicle9 W
Follicle9 H
Follicle10 L
Follicle10 W
Follicle10 H
Follicle11 L
Follicle11 W
Follicle11 H
Follicle12 L
Follicle12 W
Follicle12 H
Follicle13 L
Follicle13 W
Follicle13 H
Follicle14 L
Follicle14 W
Follicle14 H
Follicle15 L
Follicle15 W

Follicle15 H
Follicle16 L
Follicle16 W
Follicle16 H

Ovary Vol
UT Vol
UT SUM
UT-L/CX-L
Follicle1
Follicle2
Follicle3
Follicle4
Follicle5
Follicle6
Follicle7
Follicle8
Follicle9
Follicle10
Follicle11
Follicle12
Follicle13
Follicle14
Follicle15
Follicle16

Uterus
 UT L
 UT H
 UT W
 Endo
Uterine Cervix
 Cervix L
 Cervix H
 Cervix W
Ovary
 Ovary L
 Ovary W
 Ovary H
Follicle1
 Follicle1 L
 Follicle1 W
 Follicle1 H
Follicle2
 Follicle2 L
 Follicle2 W

Follicle2 H
Follicle3
Follicle3 L
Follicle3 W
Follicle3 H
Follicle4
Follicle4 L
Follicle4 W
Follicle4 H
Follicle5
Follicle5 L
Follicle5 W
Follicle5 H
Follicle6
Follicle6 L
Follicle6 W
Follicle6 H
Follicle7
Follicle7 L
Follicle7 W
Follicle7 H
Follicle8
Follicle8 L
Follicle8 W
Follicle8 H
Follicle9
Follicle9 L
Follicle9 W
Follicle9 H
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Follicle12 H
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Follicle13 L
Follicle13 W
Follicle13 H
Follicle14

Follicle14 L
Follicle14 W
Follicle14 H
Follicle15
Follicle15 L
Follicle15 W
Follicle15 H
Follicle16
Follicle16 L
Follicle16 W
Follicle16 H

Auto Calculation

PS
ED
MD
PPG
TAMAX
Vol Flow(TAMAX)
TAMEAN
Vol Flow(TAMEAN)
DT
MPG
MMPG
VTI
AT
S/D
D/S
PI
RI
PV
HR

Diagnostic Report

- View/add images
- Data edit
- Print
- Save/ load comment
- export (to PDF/RTF file)
- View history report
- Obstetric analysis
- Fetal growth curve

Safety & Conformance

Quality Standards

- ISO 9001:2008
- ISO 13485:2003

Design Standards

- EN 60601-1 and IEC 60601-1
- EN 60601-1-2 and IEC 60601-1-2
- EN 60601-2-37 and IEC60601-2-37
- EN ISO 14971 and ISO 14971
- EN ISO10993-1 and ISO10993-1
- EN 62366 and IEC 62366
- EN 62304 and IEC 62304
- EN ISO 17664
- EN 1041
- EN 980
- IEC 60878

CE Declaration

Z6 Vet/ Z60 Vet system is fully in conformance with the EC Low Voltage Directive (2006/95/EC) and EC Directive of Electromagnetic Compatibility (2004/108/EC).

Not all features or specifications described in this document may be available in all probes and/or modes.

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