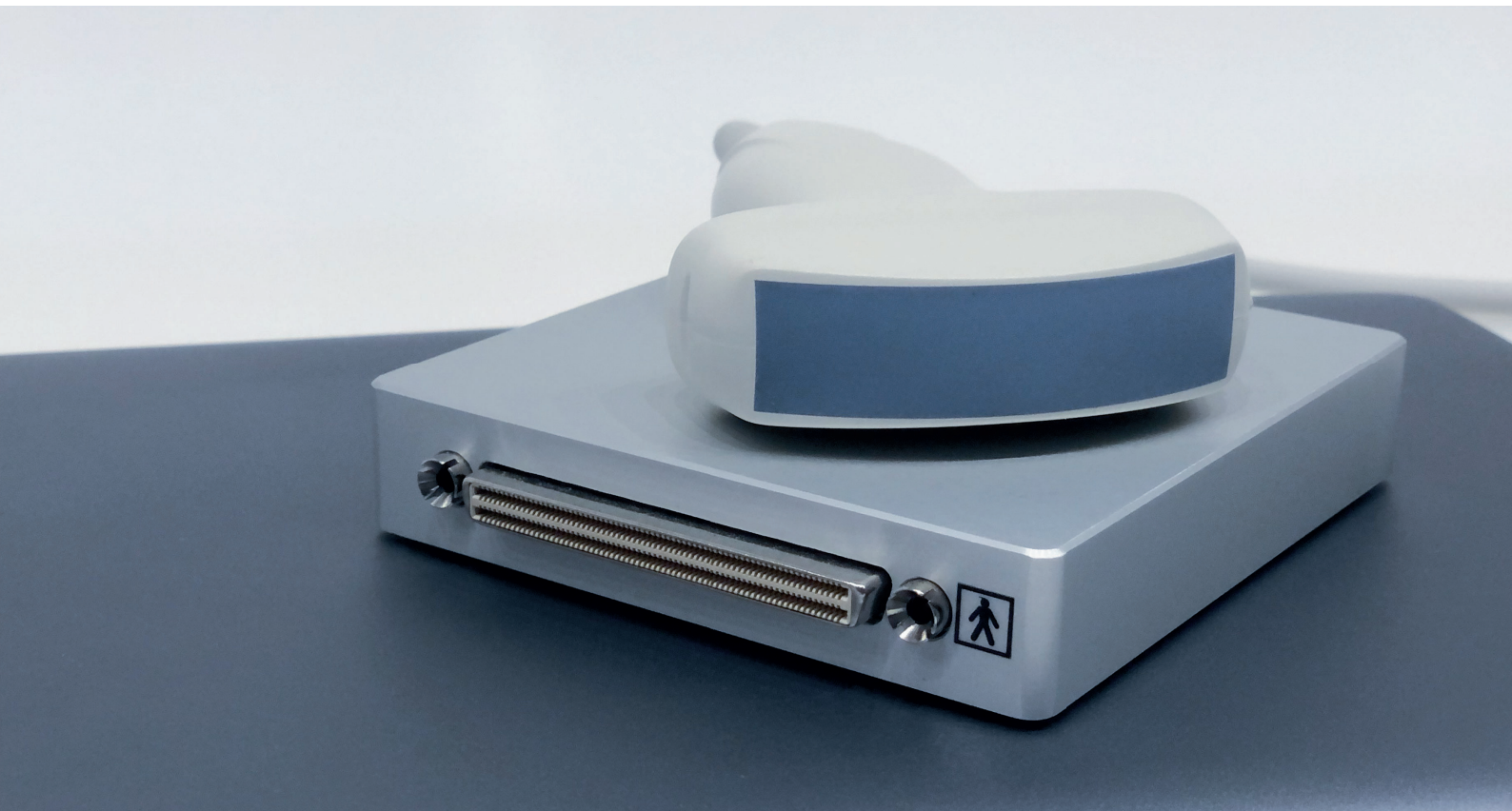


MicrUs Ultrasound Scanner

Technical Data Sheet

MicrUs EXT is a compact, cost-effective pocket-size ultrasound scanner delivering high-definition images to smartphones, tablets, or PCs. It is compatible with a broad array of probes, making it versatile for healthcare professionals in various settings.



Technical Specifications

Models

MicrUs EXT-1H: one probe port

Imaging Modes - (Windows)

B, B+B, 4B, B+M, M

B-Mode:

1. B-steer for 40mm or less linear probes
2. Compound for 40mm or less linear probes
3. Trapezoid for 40mm or less linear probes

Pulsed Wave Doppler (PWD)

B+PWD (Duplex)

Imaging Modes - (Android)

B

B+M

M

Pulsed Wave Doppler (PWD)

B+PWD (Duplex)

Connectivity

- USB 2.0 & USB 3.0
- directly from USB-C port (optional cable)

Technical Specifications

Transducers

Multi-frequency transducers from 2 to 15.0 MHz.

Automatic transducer recognition

- Linear
- Convex
- Microconvex
- Duo Probe: dual transducers for two simultaneous scans
(*custom made probe - Windows only)

Scanning depth (Windows): 2-31 cm

Scanning depth (Android): 2-28 cm

Pulsed Wave Doppler (PWD)

- PRF values: 1-10 kHz
- Wall filter settings: 16 steps (2% - 20% PRF)

Power supply (Windows)

- directly from USB port (if connected to USB 3.0)
- external power supply, 100-240V AC, 50-60 Hz (if connected to USB 2.0)

Power & battery run time (Android)

- directly from USB-C port (optional cable)
- Android mobile device battery run time: up to 2 hours

Technical Specifications

Size and weight

MicrUs EXT-1H:

- aluminium enclosure
- dimensions W x D x H, mm: 106 x 105 x 21
- weight, kg: 0.26

Ultrasound software

- Echo Wave II scanning software / Echo Wave II touch GUI (Windows 32/64 bit)
- Echo Wave A (Android)
- Free downloadable updates.

Research and Development Tools

Hardware tools:

- **I/O Module** – optional modules for synchronizing the scanner with other signals or instruments such as ECG, EMG, EEG.

Software tools:

- **SDK** – Software Development Kit (available under NDA with the manufacturer)
- **MicrUs synchronisation utilities** – utility for configuring MicrUs synch port
- **Real-time imaging for the research (DLL)** – allows to call TELEMED SDK functions to perform real-time ultrasound image data acquisition and imaging from the other programming platforms such as MATLAB, Python etc.

Technical Specifications

Recommended configuration (Windows)

- Windows® based computer - HD/Full HD screen resolution, IPS technology
- CPU i5/i7/i9 2.0 GHz or faster
- 8 Gb RAM or more
- 256 Gb internal Solid State Drive (SSD)
- ArtUs: USB 3.0, other systems: USB 2.0/USB 3.0
- Windows® 8/10/11 (all versions 32/64-bit)

Recommended Mobile Device Requirements (Android)

System requirements:

- Mobile phone or tablet with USB OTG (USB On-The-Go) port (Type-C/Micro USB).
- Android operating system (versions from 9.0 to 13.0)
- CPU: ≥ 8 cores, ≥ 2 GHz each core; 64-bit ARMv8 architecture.
- RAM: ≥ 4 GB, read performance > 1.5 GB/s, write performance > 1 GB/s.
- OpenGL ES 3.2 support.
- 5-inch 1080x1920 pixels or larger display.
- Installed "Echo Wave A" software.
- Connected MicrUs EXT-1H ultrasound scanner with supported probe

Focusing

- Transmission: variable, 8 zones.
- Receiving: Dynamic point/point focusing.

Technical Specifications

DICOM (Windows only)

- Verification SCU
- Modality Worklist (MWL) SCU
- Modality Performed Procedure Step (MPPS) SCU
- Store SCU (images, video)
- Print SCU (grayscale, color)

For more information see Echo Wave II Software DICOM Conformance Statement

Image and video save / load (Windows):

- AVI
- MP4
- JPG
- BMP
- PNG
- TIF
- XLSX
- DCM (DICOM uncompressed)
- DCM (DICOM-JPEG RGB/YBR)
- DCM (DICOM-JPEG RGB/YBR Video)
- TPD (Telemed Picture Data)
- TVD (Telemed Video Data)

Image and video save (Android):

- JPG
- MP4

Technical Specifications

Customer Care & Warranty

Remote technical support in real time.

Warranty:

- MicrUs EXT-1H Beamformer: 2 years
- Probes: 1 year

MicrUs EXT kit include:

- MicrUs EXT-1H beamformer
- ultrasound transducer (optional)
- Mini-B to Type-A USB 2.0 cable
- 100~240 VAC, 50~60 Hz power supply (EN60601-1)
- software, assembly and set-up manual, operation manual (USB memory stick)
- I/O Module (Optional)

Contacts

Design and manufacturing by;



Telemed, UAB

Savanoriu ave. 178A,
Vilnius LT-03154, Lithuania
info@pcultrasound.com
<https://www.pcultrasound.com/>

Distributor in Italy:



Telemed Medical Systems s.r.l

Via Eugenio Villoresi 24,
20143 – Milano, Italia
info@telemedultrasound.com
<https://www.telemedultrasound.com/>
+39 02 36594100