

# Transducers for MicrUs

The development made in ultrasound transducer technology is obviously related to the constantly increasing significance of ultrasound in diagnostic imaging. In medical industry, with its intricacy and continuous variation, we put all effort to keep up our technological competence.

That is why Telemed has been in the vanguard of the industrial progress since the early days, focused on indisputable quality, certain comfort and intuitive ease of use.

Telemed offers high resolution Convex, Linear, Endocavity and special purpose transducers for applications from veterinary, abdominal, vascular and cardiac through to transrectal and transvaginal. Each of the probes is carefully designed to position as high as possible near the anatomical structure of interest and to deliver optimum image quality in its product class.



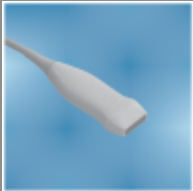
MC10-5R10S-3



MC4-2R20S-3



C5-2R60S-3



L15-6L25S-3



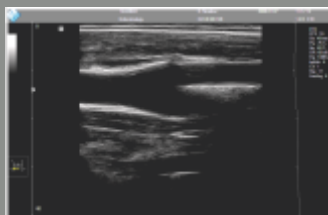
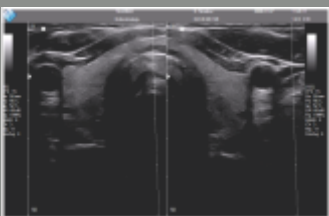
L12-5L40S-3



LV8-4L65S-3



MCV9-5R10S-3



Type	Frequency (MHz)	Scanning Method	Field of View Degree/mm	Applications
<b>Convex</b>				
C5-2R60S-3	2.0-5.0	Convex R60	65	Abdominal, Obstetrics, Pediatrics
MC4-2R20S-3	2.0-4.0	Convex R20	104	Abdominal, Cardiac, Veterinary
MC10-5R10S-3	5.0-10.0	Convex R10	147	Pediatrics, Small Parts, Vascular, Veterinary
<b>Linear</b>				
L12-5L40S-3	5.0-12.0	Linear 40 mm	39	Pediatrics, Small Parts, Vascular, Anesthesia, Veterinary
L15-6L25S-3	6.0-15.0	Linear 25 mm	24	Pediatrics, Small Parts, Vascular, Anesthesia, Veterinary
<b>Endocavity</b>				
MCV9-5R10S-3	5.0-9.0	Convex R10	147	Transvaginal
<b>Veterinary</b>				
LV8-4L65S-3	4.0-8.0	Linear 65 mm	64	Veterinary

# MicrUs



MicrUs is a new generation of a USB-powered pocket-size point of care ultrasound imaging systems. It offers ultrasound screening in B, M, B/M modes together with Speckle Reduction Processing, Trapezoid and Spatial compound imaging. Various transducers can be connected and disconnected in seconds thanks to advanced probe recognition technology. MicrUs is a fanless device so it's well suited for ultrasound-guided procedures. Ultrasound scanner can be fully controlled from a remote computer providing possibilities for telemedicine and educational purposes. Software Development Kit available to scientific organizations and industry enables advanced manipulation with the ultrasound data and customization of the user interface.

MicrUs is available in following modification:

MicrUs EXT-1H Kit: beamformer module with a single probe connector and a separated power supply.

# General Specifications

## Applications

- Primary care, vascular access, anesthesia, OB/GYN, cardiology, abdomen, andrology breast, vascular, surgery, musculoskeletal
- Veterinary: small and large animals

## Imaging Modes

- B, 2B, 4B, BM, M, Zoom, Compound, Trapezoid
- One click automatic image optimization

## Transducers

- Multifrequency
- Automatic transducer recognition

## Cine and image store

- Number of images limited only by PC storage capacity
- Recording thousands of frames
- Storing / Loading ultrasound video file to / from a disk
- Review, processing and measurements available for previously stored images and cines
- AVI, JPG, BMP, DICOM, Telemed RAW and other popular formats support

## Computer Requirements

- Windows® based Desktop / Notebook / Tablet PC
- CPU i3 / i5 / i7 1.8 GHz or better
- USB 2.0 / 3.0 interface
- 2 Gb RAM or better
- Windows® XP / Vista / 7 / 8 ( 32/64 Bit )
- Screen 1024x768 or more, IPS or PLS technology

## Power

- Directly from USB port (when connected to USB 3.0)
- External power supply, 100~240V AC, 50~60 Hz (when connected to USB 2.0)

## General measurements

- B-mode: distance, length, circumference, area, volume, angle, stenosis %, A/B Ratio
  - M-mode: distance, time, velocity, heart rate, stenosis %, A/B Ratio
- In freeze mode and on stored image

## Calculation packages

- Human: obstetrics, gynecology, urology, cardiology, abdominal, endocrinology, vascular, musculoskeletal
- GA estimations for animals

## Functions

- Mouse / touchscreen / keyboard operation
- Unlimited programmable presets for clinically specific imaging
- Multi language support
- The set of predefined skin schemes for software interface
- Printing to system printer

## System architecture

- PC-based architecture: ultrasound module connected to PC via USB interface
- Point-to-point dynamic focusing
- Variable scan line density
- Frequency range 1-15MHz

## Ultrasound Software

- TELEMED Drivers Package
- Echo Wave II software
- Free upgrade via the Internet
- SDK

## Dimensions, weight

- Aluminium body
- 106 (W) x 105 (D) x 21 (H) mm
- 257 g



**TELEMED**  
Ultrasound Medical Systems

CE 0482 EN ISO 13485:2003

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