

neo
MEDICAL INC

neo Wireless Handheld Ultrasound

Product Brochure v1

Advanced Care, Anywhere



Contents

1. **Introduction**
2. **Modes**
3. **Features**
4. **Physical Specifications**
5. **Compatibility**



1. Introduction

Introducing the neo wireless handheld ultrasound for your smart device: offering ultrasound imaging to complement your diagnostic processes. neo provides quick, high-quality scans that can support the assessment of various conditions. By offering immediate access to imaging, neo serves as a valuable tool, enhancing patient care, streamlining workflows, and supporting more informed decision-making in any care setting.



1.1 Applications

- Abdominal
- OB/GYN
- Gallbladder
- Lung
- Soft tissue
- Vascular
- Cardiac
- Bladder
- Thyroid
- Breast
- Aesthetics
- FAST
- MSK
- Superficial

Key advantages

- Lightweight and compact design allow medical professionals to scan effortlessly anytime, anywhere.
- IP 68 Water/dust Resistant
- User friendly interface
- Easy DICOM exam transfer

2. Imaging Modes

B mode

- Cineloop image review (up to 10 second loop length)
- TGC
- Frequency and advanced imaging setting
- Intuitive interface with gestures.
- Measurements in both real-time and in review

Color Doppler

- Available on all neo transducers
- Dual view
- Angle Steering for ROI window
- Advanced setting: wall filter and color reject
- Velocity scale display

M mode

- Body marker
- Sweep Speed
- Real-time gain adjustment

Power mode

- Dual view
- Directional power
- Velocity scale display and angle steering

Pulse Wave Doppler

- Available on all neo transducers
- CA angle and range gate adjustment
- Auto Trace function
- Sweep speed and velocity scale display



“Neo offers immediate intervention results for me to quickly scan and evaluate patients’ conditions and to provide rapid decisions for better patient care.”

*Dr. Kuo-Chih Chen, MD
WINFOCUS
Director/Instructor, Attending
Physician in ED*

3. Features

Advanced Needle Visualization

- Blue needle overlay to enhance procedural clarity
- Steerable angle of approach

Bladder Volume Measurement

- Automatic volume calculation

Auto Flow Trace

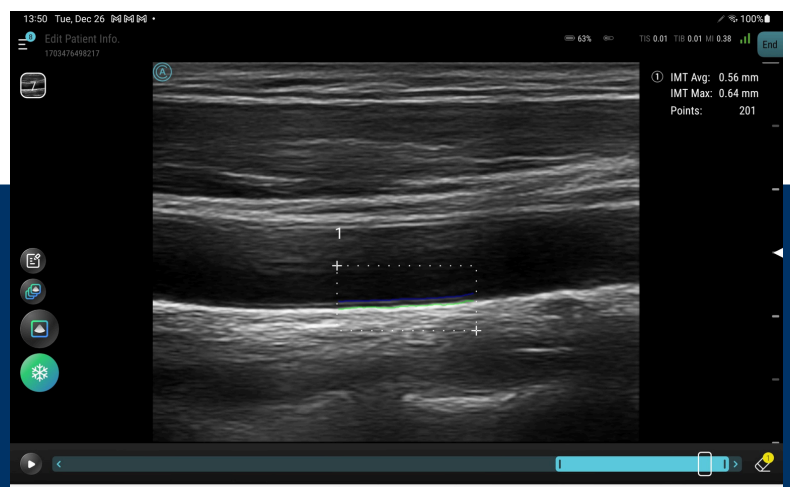
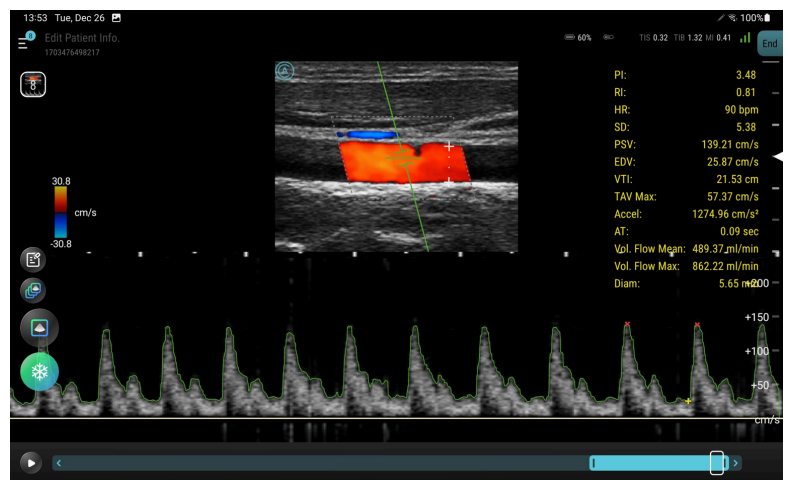
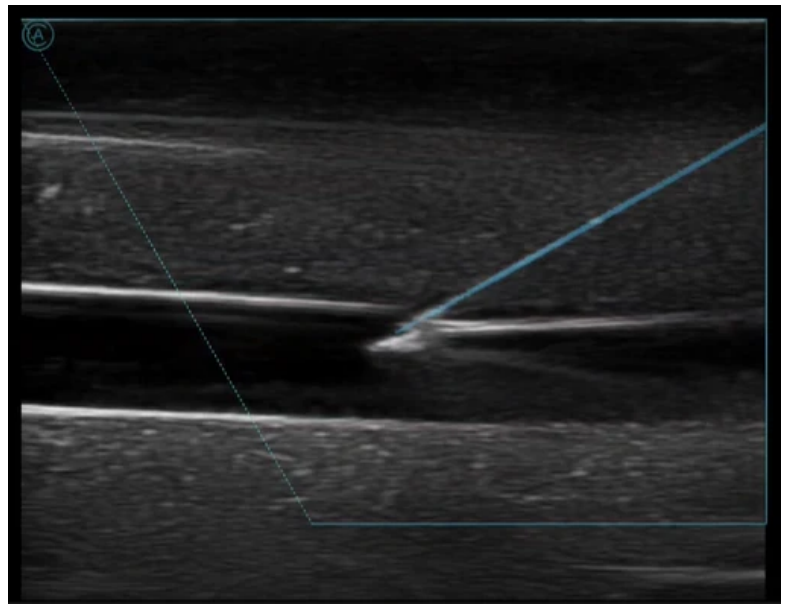
- Automatic measurement of pulse wave values during freezing or scanning

Automatic Carotid intima thickness measurement

- Automatically measure the thickness of the intima of the carotid artery wall

OB/GYN Measurements





- EFW
- Fetal Heart Rhythm
- Amniotic Fluid (AFI)
- Cervical Length



"Its portability and image quality can be ideal for ultrasound education in the musculoskeletal application. Its user-friendly interface allows users to quickly make full use of it, even for a beginner. I believe neo can be a big help to the medical education system and to healthcare by providing a consistent device to improve working efficiency in the workforce."

Dr. Hsin-Kuo Wang

4. Physical Specifications

Model	Neo C62	Neo L154	Neo L187	Neo P42
Probe Type	Convex Linear Array	Linear Array	Linear Array	Phased Array
Dimension	144.82 x 74.26 x 37.00 mm	135.54 x 62.17 x 37.00mm	135.54 x 62.17 x 37.00mm	136.56 x 61.98 x 37.00mm
Weight	253.7g	233.4g	233.4g	233.5g
Battery Life	1.5 hours	1.5 hours	1.5 hours	1.5 hours
Water Resistance	IP68	IP68	IP68	IP68
Frequency	2~6MHz	4~15MHz	7~18MHz	2~4MHz
Scan Depth	Max. 30 cm	Max. 12cm	Max. 8cm	Max . 30cm
Applications	Abdominal, OB/GYN, Fetal Echo, MSK, (conventional), Urology, and Pediatric.	Musculo-skeletal (conventional and superficial), Small Organ (including breast, scrotum, thyroid), Ocular, Carotid, Nerve	Small Parts, MSK, Superficial, Vascular, Lung, Ocular, Carotid, Nerve	Abdomen, Bladder, Cardiac, FAST/EFAST, OB/GYN, Transcranial, Lung
Appearance				

5. Tablet Compatibility

neo Medical app is optimized for use on devices from our verified compatibility list. If installing on an unverified device, please ensure it meets the recommended minimum specifications below for proper functionality.

Mobile Devices Verified to Be Compatible

- **Android device**

- Samsung Galaxy Tab S6 Lite (2022)
- Samsung Galaxy Tab S6
- Samsung Galaxy Tab S7
- Samsung Galaxy Tab S8
- Samsung Galaxy Tab S9
- Samsung Galaxy Tab S9 FE
- Samsung Galaxy S10
- Samsung Galaxy S21
- Samsung Galaxy S23 Ultra
- Google Pixel 6

- **iOS device**

- iPhone X/ 11/ 12/ 13/ 14/ 15
- iPad Pro Gen 4
- iPad Air Gen 4/ 5
- iPad Gen 9
- iPad mini Gen 6

Minimum Specifications for Mobile Device

- **Qualcomm Snapdragon 855, Apple A13, or faster CPU, with a minimum 6GB of RAM**
- **IEEE 802.11n 5G wireless networking capability, Wi-Fi Direct supported (Android)**
- **Android 10, 11, 12, 13 or iOS 14, 15, 16**
- **Minimum 30 MB of storage space for patient information and images.**
- **Color display, 1280 x 800 resolution (minimum), at least 14 cm (5.5 in) in size**
- **Multi-touch interface**
- **Internally-mounted speakers**
- **IEC 60950-1-compliant**
- **Date/time configuration**

6. DICOM Conformance

Seamless Integration

neo wireless handheld ultrasound is DICOM-conformant, enabling smooth and secure integration with existing PACS and hospital information systems. With robust data compatibility, our solution ensures easy image transfer, storage, and retrieval in a standardized format, enhancing workflow efficiency and connectivity in clinical environments.

Third-Party software compatibility

DICOM compatibility allows for off-device third party software input. Easily adapt AI tools, calculators, or other off board software for use with neo image and loop capture.

