

SonoCare SC1 Handheld Ultrasound System

Cloud-Connected. Featherlight. Field-Ready.

The SC1 brings hospital-grade ultrasound imaging to the places conventional medicine cannot reach — conflict zones, disaster sites, and underserved communities — transmitting scan data in real time to specialist physicians anywhere in the world.

PRODUCT OVERVIEW

Reimagining what ultrasound can do — and where.

Ultrasound is one of medicine's most versatile diagnostic tools: non-invasive, radiation-free, and capable of imaging organs, blood flow, and developing fetuses with precision. Until now, it has been anchored to clinics and hospitals by machines weighing up to 400 pounds.

The SonoCare SC1 changes that entirely. Developed in Prof. Ronit Avram's laboratory at the Technion — Israel Institute of Technology — the SC1 is a handheld probe that weighs under 6 pounds and fits in a backpack or jacket pocket. Its proprietary data compression algorithm captures only clinically relevant scan data, uploads it to a secure cloud instantly, and delivers a full-resolution image to a physician's smartphone or tablet — wherever they are in the world.

The result: real-time, specialist-guided diagnosis at the point of care, whether that's a battlefield triage station, a rural clinic in China, or the back of a medical evacuation helicopter.

KEY FEATURES

Everything you need. Nothing you don't.

Featherlight Design

Weighs under 6 lbs — fits in a backpack or jacket pocket. No cart, no cables, no setup delay.

Cloud Transmission

Scan data uploads instantly to a secure cloud via cell connection, preserving full image resolution.

Physician-to-Field Guidance

Treating physicians receive imagery on any smartphone or tablet and can direct on-site personnel in real time.

Zero Radiation

Powered entirely by high-frequency sound waves — completely safe for repeated use on any patient.

Lossless Compression

Proprietary algorithm reduces data at acquisition without degrading image quality or losing clinical detail.

Global Range

Operates wherever there is cellular connectivity — from rural Sub-Saharan clinics to forward surgical positions.

HOW IT WORKS

Three steps from scan to diagnosis.

- 1

Acquire

The clinician places the SC1 probe on the patient. High-frequency sound waves generate a raw scan, which the onboard algorithm immediately compresses — retaining all clinically significant data while reducing file size for rapid upload.
- 2

Transmit

Compressed scan data is uploaded to SonoCare’s secure cloud over any cellular connection (3G, 4G, or 5G). Transmission is near-instantaneous, with no degradation to image resolution.
- 3

Diagnose

The treating physician receives a full-resolution image on their smartphone or tablet within seconds. They can view the scan, assess the injury or condition, and provide real-time verbal or written guidance to on-site personnel.

CLINICAL USE CASES

Built for the environments where it matters most.

Setting	Clinical Application
Point-of-Injury Triage	Combat medics use the device at point of injury to detect internal hemorrhage, pneumothorax, and foreign bodies — enabling rapid evacuation decisions in the field.
Forward Surgical Teams	Surgeons in temporary field hospitals assess chest and abdominal injuries without CT scanners, guided remotely by specialist physicians.
Medical Evacuation	During helicopter or armored vehicle transport, clinicians monitor patient stability continuously using the handheld unit.
Blast & Musculoskeletal Injuries	Detect shrapnel, assess ligament and soft-tissue trauma, and guide nerve blocks or vascular access procedures in austere environments.
Humanitarian & Disaster Response	Deployed in earthquake zones, refugee camps, and disaster sites where hospital infrastructure is unavailable or destroyed.
Rural & Developing-World Clinics	Community health workers perform scans that are immediately reviewed by remote specialist physicians, enabling diagnosis and treatment guidance without patient transfer.

TECHNICAL SPECIFICATIONS

SC1 at a glance.

Weight	Under 6 lbs (approx. 2.7 kg)
Form Factor	Handheld probe; backpack or pocket portable
Imaging Mode	B-mode ultrasound via high-frequency sound waves

Data Transmission	Real-time cloud upload via cellular network
Image Delivery	Physician smartphone or tablet (iOS & Android)
Compression	Proprietary lossless algorithm — no image degradation
Radiation	None
Connectivity	Cellular (3G/4G/5G); Wi-Fi optional
Developed By	Prof. Ronit Avram's lab, Technion — Israel Institute of Technology
Clinical Validation	Sheba Medical Center, Tel Aviv

“This development will enable remote treatment for patients in developing countries, under the guidance of Israeli doctors — in real time.”

Dr. Avi Cohen, Cardiologist · Sheba Medical Center, Israel

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