

HandyScan

The ultrasound scanner
for mobile use

Sonographic detection of free abdominal fluid in Morison's pouch.



Ultrasound Ultralight Ultramobile

Despite highly sophisticated emergency rescue systems, assessment of abdominal trauma has always been a major challenge for emergency physicians and paramedics at the scene of an accident. Failure to identify massive abdominal bleeding is one of the leading causes of early death in multiply injured patients.

Until now, it has only been possible to determine the need for emergency laparotomy by abdominal ultrasound carried out in the shock room at the admitting trauma centre. This delay in early clinical trauma management can have a crucial effect on the patient's chance of survival.

With the introduction of prehospital ultrasound, it is now possible to diagnose abdominal injuries at the scene. The ability to determine the need for an emergency laparotomy at the scene of the accident can provide the receiving trauma centre with the necessary time to prepare for surgery.

With the cooperation of the Department of Trauma Surgery at the Johann Wolfgang Goethe University in Frankfurt and the Frankfurt Institute for Rescue Medicine, a mobile ultrasound unit has been developed that is specifically designed for use by emergency rescue service teams. This portable device has already proved itself in practical everyday use by emergency rescue services and has contributed to optimizing preclinical and early clinical management of trauma patients.

With its robust design, the Handy-Scan allows ultrasound examination to be carried out on the spot. The high-resolution TFT display provides an extremely sharp image

of the quality that physicians are otherwise accustomed to only from full-size, stationary units. The device is designed for one-hand operation, weighs only about 2 kg and is equipped with a shoulder strap, so as not to hamper the physician while working at the scene. For maximum performance, the rechargeable battery lasts up to five hours.



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IMAGE DEPTH

The IMAGE DEPTH key allows you to change the displayed image depth.



FREEZE (Still image)

The FREEZE key freezes the displayed image.



ON/OFF



SET

The SET key is used to activate and control the measuring point and to edit.



SELECT

This key is used to call up and operate the main menu.



ESCAPE (Delete)

The ESCAPE key is used to exit the menu or to delete a message.



DEPTH ADJUSTMENT

These control keys are used to adjust the overall depth of the ultrasound image to a suitable level.



This key is controlled by the software. It is used for different functions, depending on image mode or menu option.



CURSOR KEYS

These keys allow you to change the cursor position and the caliper settings.



Simple operation
Mobile diagnosis



**Wall Fixation
incl. One-Hand-Release**

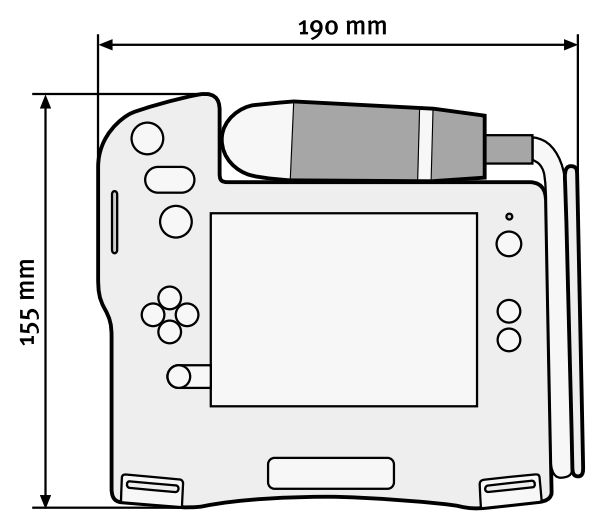
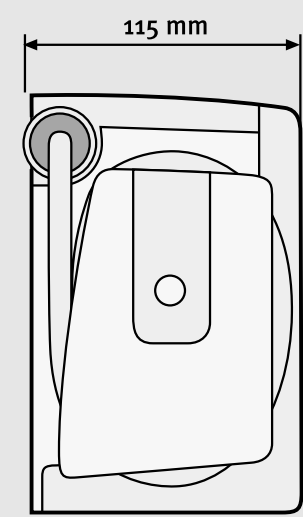


Display	5-inch TFT LCD, bright
Weight (Scanner)	2.2 kg, incl. Akupak
Probes	3.5/5.0 MHz dual frequency sector
Batteries	At least 5 hours of permanent operation, rechargeable

Image mode	B, B+B, B+M, M
Zoom mode	Zoombox only
Move (image)	left/right up/down
Image frequency range	1.5 - 9 MHz
Image angles	15°, 45°, 60°, 90°
Image depth	up to 20 cm
Adjustable dynamic range	40 dB to 60 dB
Scan converter	512 x 512 x 8 bits
Max. frame rate	30/sec.

Connectivity	Bi-directional infrared interface video output
Grey shades	256 levels
Application settings	10 per probe
Keyboard	English
Grey maps	fixed, 2 programmable
Average grey level	

Software updates	via PC (infrared interface)
Screen text	free annotate
B-mode, measure	Distance, area, circumference, ellipse, angle, volume
M-mode, measure	Distance, time, velocity, heartrate, acceleration
Special accessories	Wall fixation



Technical Data

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About us

Since the founding of our company in 1973, we have concentrated ourselves on the strengths of German innovative technology: constant innovations, highest quality demands and a high investment in research and development at the Metrax factory. This has resulted in precise, highly reliable high-tech products, combined with an above-average user orientation. This combination helped us to establish our products worldwide.

A comprehensive product portfolio has enabled PRIMEDIC™ to offer a complete range of services in the area of emergency medicine, ranging from the in-house emergency call system Vivago at the time of alert, professional defibrillators and portable automatic resuscitators up to mobile ultrasound diagnosis. By means of this combination, PRIMEDIC™ signals its competence, know-how and reliability in every situation.

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