

GE Healthcare

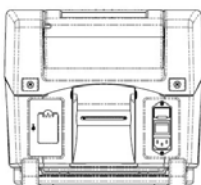
Achilles EXP II

Product data sheet

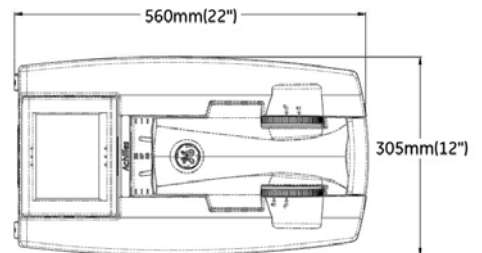
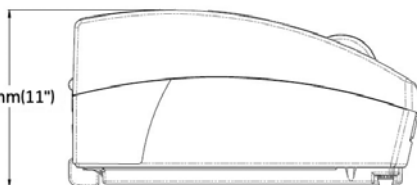
Leading hospitals, clinics and physicians trust the GE Healthcare Achilles to help provide better care to more patients.



Dimensions:



281mm(11")



560mm(22")

305mm(12")

Achilles EXPI specifications (nominal)



Applications and features:

Optional accessories:

- Travel cart
- Hard and soft travel case

Consumables:

- Thermal paper
- Membranes
- Steam distilled water

Clinical workflows:

- Prevalence
- Clinical risk factors
- Patient data

On-board patient dB:

- 2000 patients

Reference populations:

	AF	AM	PF	PM
Japanese	X	X	X	X
German	X	X		
European	X			
French	X			
Latin American	X	X		
Mercosurian	X	X		
Italian	X	X		
Middle East	X			
Chinese	X	X		
Greek	X			
Saudi Arabian	X			
USA	X			

AF-adult female, AM-adult male,
PF-pediatric female, PM-pediatric male

About GE Healthcare:

GE Healthcare provides transformational medical technologies and services that are shaping a new age of patient care. Our broad expertise in medical imaging and information technologies, medical diagnostics, patient monitoring systems, drug discovery, biopharmaceutical manufacturing technologies, performance improvement and performance solutions services help our customers to deliver better care to more people around the world at a lower cost. In addition, we partner with healthcare leaders, striving to leverage the global policy change necessary to implement a successful shift to sustainable healthcare systems.

Our "healthymagination" vision for the future invites the world to join us on our journey as we continuously develop innovations focused on reducing costs, increasing access and improving quality around the world. Headquartered in the United Kingdom, GE Healthcare is a unit of General Electric Company (NYSE: GE). Worldwide, GE Healthcare employees are committed to serving healthcare professionals and their patients in more than 100 countries. For more information about GE Healthcare, visit our website at www.gehealthcare.com.

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Specifications:

Dimensions 281mm x 305mm x 560mm
11" H x 12"W x 22"D

Weight 11.5 kg (25.4 lbs.)

Display 6.5" Color LCD VGA (640 x 480)
Tilts and inverts for optimal viewing
Brightness $\geq 400\text{cd/m}^2$

Printer.... Internal..... 58mm thermal printer with graphical output
External..... Contact local sales/distributor representative

USB port..... USB 2.0
USB host x 2, USB slave x 1

Transducers Quarter wave-matched broadband single element
(25 mm Dia)
Center frequency = 0.5 MHz
Single element transmission and reception
Fluid-coupled, through transmission
(95 mm distance)

Output power of ultrasound p- < 1 MPa
 $I_{ob} < 20 \text{ mW/cm}^2$
 $I_{spta} < 100 \text{ mW/cm}^2$

Coupling System SmartDry with 70% isopropyl or ethanol
Fluid-coupled, through-transmission ultrasound
Heated coupling fluid 33°C (92°F)
Replaceable membranes (biocompatible)
Pressure < 1.5 psi

Analysis..... Real-time, point-by-point analog/digital conversion
Smart detection algorithm, discrete fourier transform
Simultaneous stiffness/SOS/BUA determination
Automatic signal strength compensation
Bi-directional ultrasound wave acquisition

Results..... Stiffness index with WHO classification
T-score with % young adult
Z-score with % age-matched
SOS/BUA

In vivo precision and accuracy <2.0% CV in osteoporotic person
between 15 and 33° C

Measurement time..... <10 seconds

Voltage 100–240V AC @50/60 Hz

Power consumption Standby: 25W
650 VA without peripherals

THD (Total Harmonic distortion) < 5% per IEEE 519-1992
standard for power quality and
total harmonic distortion

Operating ambient Temperature..... 15°C - 35°C
Humidity ... 30–90%RH (non-condensed)
Noise Level $\leq 65 \text{ dB}$.

Storage/transport ambient .. Temperature..... -20°C - 70°C
Humidity ... 30–95%RH (non-condensed)

Shock (no operation)..... $\leq 1\text{G}$ for more than 1ms

Vibration (no operation)..... 0.25G at 5Hz

Static Static-free environment

Dust, fumes, and debris..... Clean, well ventilated environment,
free from dust, smoke, and other
airborne contaminants.

External cleaning agents..... 70% alcohol

