

# TE Air e5M

## SISTEMA DE ULTRASONIDOS PORTÁTIL INALÁMBRICO

### REFERENCIAS

TE Air e5M

Sistema portátil ultrasonidos TE Air e5M



\*dispositivo móvil no incluido

Sistema de ultrasonidos portátil e inalámbrico para técnica de imagen en emergencias.

La ecografía en el punto de atención (POCUS) se ha consolidado como algo esencial en entornos donde se requiere un diagnóstico rápido.

El diseño inalámbrico de TE Air permite realizar un examen de ultrasonidos en cualquier momento y lugar, simplemente conectando la sonda a un dispositivo móvil.

Excelente calidad de imagen. Integra el soporte a múltiples aplicaciones, permite la exploración de todo el cuerpo y adaptarse a escenarios clínicos donde la toma de decisiones es primordial, como aplicaciones cardiológicas, trauma torácico, trauma abdominal (FAST), en entornos pre-hospitalario, evacuación, rescate y emergencias.

### Ventajas

Interfaz de usuario intuitivo. Manejo con una sola mano de la App. Gestión de datos del paciente. Integración con el sistema de información del hospital para completar el flujo de trabajo.

Carga rápida en 35 minutos

Estuche de protección con cargador portátil inalámbrico, permite mantener el TE Air en funcionamiento durante todo el día (opcional)

## CARACTERÍSTICAS:

### 1 System Overview

The TE Air is a wireless handheld ultrasound system. The wireless transducer is paired with App on mobile devices over Wi-Fi.

#### Application

- Cardiac
- Abdominal
- Thoracic/pleural
- Gynecology
- Obstetrics
- Pediatric
- Vascular
- Urology
- Cephalic
- Small organ
- Musculo-skeletal
- Nerve

#### Imaging modes

- B-Mode
- M-Mode
- Color Doppler Imaging
- Power Doppler Imaging
- Pulsed Wave Doppler
- TDI (Tissue Doppler Imaging)

#### Standard features

- B-Mode
- M-Mode
- Color Doppler Imaging
- Power Doppler Imaging
- Pulsed Wave Doppler
- iClear™ (Speckle Suppression Imaging)
- iTouch™ (Auto Image Optimization)
- Smart Bladder
- VA Grid (Vascular Access Grid)

#### Optional features

- TDI
- AutoEF (Automatic Ejection Fraction Measurement)
- Extended Connection
- iNeedle (Needle Visualization Enhancement)
- iTouch+ (Auto Image Optimization Plus)
- Smart Calc (Auto Diameter and Area

Measurement of Lesions)

- iWorks (Workflow Protocol)
- iScanHelper (Embedded Tutorial Function)

#### ● Air Capsule (Optional)

- Input voltage: 5V DC
- Input current: 3A
- Output voltage: 5V DC
- Output current: 3A
- Battery: 3.6V, 3000mAh
- Charging Cycle: about 2.5 times for a transducer
- Wired charging: Type-C charging cable, charging time 4 hours
- Wireless charging: wireless charging dock, charging time 8 hours
- Wireless Charging Dock Model: CP61 HUAWEI

Input voltage: 5V-10V

Input current: 4A Max

#### Language support

- Software: English and Chinese
- User manual: German, Spanish, French, Italian, Portuguese, Polish, Danish, Russian, Dutch, Turkish

### Transducer Specification

#### Power Supply

- Input voltage: 5V or 9V
- Input current: 3Amax
- Adaptor:
  - Output interface: USB TypeA
  - Output voltage: 5V DC
  - Output current: ≥3A

#### Built-in Battery

- Lithium-Ion battery: 3.85V, 1650mAh
- Support fast charging by adaptor and Air Capsule, charging time from 0% to 90%: ≤35mins
- Fast charging environment
  - Ambient temperature: 10~26°C
  - The transducer is in a state of temperature equilibrium, usually shut down for > 1 hour
  - The transducer or Air Capsule is in an

open desktop environment, without cover, without surrounding heat sources, and without direct sunlight

- Wired charging: Type-C charging cable
- Wireless charging: Air Capsule
- Battery power supply duration: no less than 90 min in B mode when the battery is fully charged
- Continuous scanning duration for battery power supply: no less than 50 min in B mode when the battery is fully charged

#### Operating Environment

- Ambient temperature: 0-35 °C
- Relative humidity: 20%-85% (no condensation)
- Atmospheric pressure: 700hPa-1060hPa

#### Storage & Transportation Environment

- Ambient temperature: -20-45 °C
- Relative humidity: 20%-85% (no condensation)
- Atmospheric pressure: 700hPa-1060hPa

#### Dimensions and Weight

- Dimensions:
  - 46.5×33×170 mm (i3P);
  - 70×33×170 mm (e5M)
- Weight:
  - 199 3g (i3P);
  - 229 3g (e5M)

#### Dustproof and waterproof

- IP68 rated

#### Programmable button

- User-defined functions

### Operating Environment

#### iPhone:

- Processor: Apple A10 processor or newer
- Operating System: iOS 13 or above
- Capacity: 128 GB or larger
- Running memory: 2 GB or larger
- Display size: 4.7 inches (Diagonal) or larger
- Display resolution: 1334 × 750 or higher
- Display brightness: 400 nit

#### iPad:

- Processor: Apple A12 processor or newer

- Operating System: iOS 14 or above
- Capacity: 64 GB or larger
- Running memory: 3 GB or larger
- Display size: 7.9 inches (Diagonal) or larger
- Display resolution: 2048 × 1536 or higher
- Display brightness: 500 nit

#### Android Phone

- Processor: Qualcomm Snapdragon 855
- Operating System: Android 10 or above
- Capacity: 256 GB or larger
- Running memory: 8 GB or larger
- Display size: 6.41 inches (Diagonal) or larger
- Display resolution: 2340 × 1080 or higher
- Display brightness: 400 nit

#### Android Pad

- Processor: Qualcomm Snapdragon 855
- Operating System: Android 10 or above
- Capacity: 256 GB or larger
- Running memory: 6 GB or larger
- Display size: 10.5 inches (Diagonal) or larger
- Display resolution: 2560 × 1600 or higher
- Display brightness: 200 nit

### Exam Storage and Management

#### Exam storage

- Direct digital storage of single frame and cine 2D, color and Doppler.

#### Exam management

- iStation™ workstation dedicated for patient exam management
- Patient exam query/retrieve
- Support review of current and past exam
- Export images as JPG format; export cine as MP4 format
- Support data encryption and transmission encryption

### Connectivity

#### Ethernet Network Connection

- Wireless connection

#### DICOM 3.0

- DICOM basic
  - Store
  - Media Exchange
- DICOM Worklist

# Transducers e5M

- Application: Linear: Small Organ, Vascular, Musculo-skeletal, Nerve; Convex: Abdominal, Gynecology, Obstetrics, Cardiac, Urology, Thoracic/Pleural, Small Organ, Vascular, Musculo-skeletal, Nerve
- Bandwidth: 2.0-9.0 MHz
- Number of Elements: 128
- Field of View (max): Linear: 180°; Convex: 70°
- Extended FOV: Linear: 180°; Convex: 70°
- Physical Footprint: 66.3mm × 29.8mm
- Footprint: 44.2mm × 11.5mm
- Depth: 1.5-40.0cm
- B-mode Frequencies: Linear: 2.0~5.2, 4.0~7.4, 5.0~8.2 MHz; Convex: 2.0~3.6, 2.2~3.8, 3.0~5.0 MHz
- Harmonic Frequencies: Linear: 6.0, 7.0, 8.0 MHz; Convex: 4.4, 4.43, 4.43b MHz
- Color Frequencies: Linear: 4.0, 4.4, 5.0 MHz; Convex: 2.5, 2.8, 3.3 MHz; TDI: 3.3, 4.0MHz
- PW Frequencies: Linear: 4.0, 4.4, 5.0 MHz; Convex: 2.5, 2.8, 3.3 MHz; TDI: 3.3, 4.0MHz
- Biopsy Guide: not available

## Safety and Conformance

### Quality standards

- ISO 9001
- ISO 13485

### Design standards

- EN 60601-1 and IEC 60601-1
- EN 60601-1-2 and IEC 60601-1-2
- EN 60601-1-6 and IEC 60601-1-6
- EN 60601-2-37 and IEC60601-2-37
- EN 62304 and IEC 62304
- EN 62366 and IEC 62366
- EN ISO 17664 and ISO 17664

## CE declaration

The ultrasound system is fully in conformance with the Regulation (EU) 2017/745 Concerning Medical Devices. The number adjacent to the CE marking (0123) is the code of the EU-notified body that certified meeting the requirements of Annex II excluding (4). of the Directive.

### AIR Capsule:

- Funda de protección, y cargador portátil.
- Admite carga inalámbrica.

Si el estuche Air Capsule está completamente cargado, puede mantener la unidad en funcionamiento un día completo sin problemas.



Fabricado por:

Distribuidor por