Мониторы пациента IntelliVue, Avalon, Expression Технические характеристики

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Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70
Киргизия +996(312)-96-26-47
Казахстан +7(7172)727-132

pih@nt-rt.ru || https://philipsmed.nt-rt.ru/

To save a life

Most people have never been in a position to administer an AED. When the moment arrives, it is easy to panic. A calm voice walking you through the process step by step means you are never alone. With Philips AED Solutions, you can have an expert by your side.

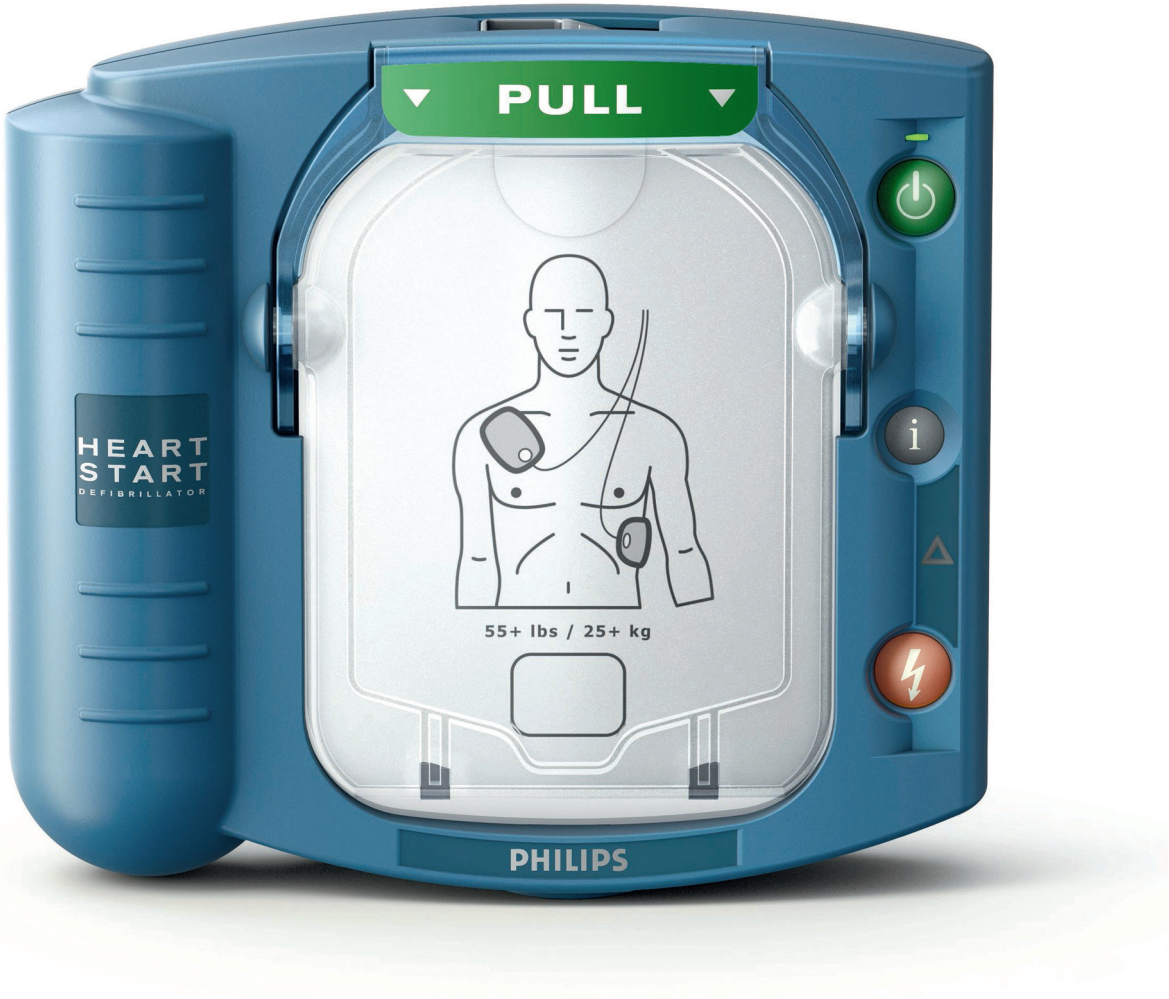
It is crucial that AEDs be close at hand, ready to go, designed to be easy to use, lightweight and rugged.

Cardiovascular disease is a leading cause of global mortality, accounting for almost 17 million deaths annually, or 30% of all global mortality.[1]

The Philips HeartStart OnSite AED assists you through the process of treating a victim of suspected sudden cardiac arrest (SCA) and is the only AED available over the counter. OnSite provides practical, real-time guidance through step-by-step voice commands and CPR guidance.

- Includes features to help guide the treatment of SCA with easy setup, clear voice commands and real-time metronome
- Arrives virtually ready to use – with the Ready-Pack configuration, OnSite is positioned inside the carry case with Adult SMART Pads Cartridge and battery already installed and with a spare Adult SMART Pads Cartridge in place
- Guides you through a cardiac emergency with a simple, step-by-step process, adaptive instructions and intelligent sensors to help deliver therapy
- Use on infants and children under 25 kg (55 lb) or 0-8 years old, and adults and children over 25 kg (55 lb) or greater than 8 years old
- Senses when the special Infant/Child SMART Pads Cartridge is installed, and automatically adjusts CPR instructions and shock energy
- Can be converted to a trainer with installation of training pads cartridge
- Conducts a series of automatic self-tests daily, weekly and monthly, to check pad readiness and verify functionality and calibration of circuits and systems

Advanced technology. Proven therapy.



Patented Quick Shock feature allows OnSite to typically deliver a shock within eight seconds after CPR.[2]

Ready to act. Ready to go.
Designed for the ordinary person in the extraordinary moment, OnSite is ready to act and virtually ready to go. It allows anyone with little or no training to treat the most common cause of SCA by delivering a shock quickly and effectively, wherever SCA happens.

Start quickly. Treat confidently.
With access to the right equipment and support, you can help save a life. OnSite guides you through the process of treating a victim of suspected SCA. OnSite provides practical, real-time guidance through step-by-step voice commands and CPR guidance.

Easy as 1-2-3.
We've equipped OnSite with integrated SMART Pads that will provide feedback to the AED so it can adapt its voice instructions to your actions and your pace. The system won't announce the next step until you are ready. Prompts are repeated and rephrased if needed and include additional instruction to aid understanding.

Answers for your questions

Sudden cardiac arrest (SCA)

Q: What causes SCA?

A: SCA occurs when the electrical system of the heart becomes chaotic, causing it to stop beating effectively. Lacking proper blood flow, the person becomes unresponsive and stops breathing normally. CPR is important, but it alone cannot restore a normal heart rhythm.[3,4] A shock from a defibrillator is the most effective way to restore the heart's normal pumping rhythm.[5]

Technique

Q: What if I don't know the proper technique?

A: OnSite acts as your personal coach to guide you through the process of treating a victim of suspected SCA. OnSite provides practical, real-time guidance with real-time step-by-step voice instructions.

Q: How soon must the defibrillator shock be administered?

A: The person's best chance of survival is to receive that shock within 3-5 minutes of collapse.[6,7] A defibrillator will not save every person who experiences SCA, but more lives could be saved if those affected were reached more quickly.[6-8] Your quick response makes a real difference.

Q: How do I know if a shock is needed?

A: The defibrillator assesses the patient's heart rhythm. If a shock is advised, it directs you to press the flashing orange Shock button.

Q: What if I don't know where to put the pads?

A: The SMART Pads Cartridge contains two adhesive pads that have pictures on them to show you where to place the pads on the person's bare skin, and voice instructions will remind you to look at the pictures. The pads are "smart" because they sense when they have been removed from the cartridge, peeled from their liners, and applied to the patient, causing the voice instruction to adjust to your actions.

Q: What do I tell the professionals when they arrive?

A: They will know what questions to ask you. If an Emergency Medical Services (EMS) responder needs a summary of care, it can be retrieved from the defibrillator's internal memory. The EMS provider simply presses the i-button, and OnSite will verbally recount events from its last clinical use.

Technology

Q: How does OnSite assess heart rhythm?

A: OnSite includes proven Philips technology for heart rhythm assessment, called SMART Analysis. SMART Analysis is a sophisticated algorithm that simultaneously evaluates several attributes of a person's heart rhythm to determine if the rhythm is shockable.

Q: How does OnSite know how much energy to deliver?

A: A technology called SMART Biphasic Impedance Compensation helps OnSite deliver the optimal amount of current and energy. Smart Biphasic is the first biphasic therapy with sufficient evidence to be classed "standard of care" and "intervention of choice" by the American Heart Association.[4-8] SMART Analysis and SMART Biphasic's effectiveness are backed by over 40 published, peer-reviewed studies.[9]

Training

Q: Is training available?

A: Yes. A special training SMART Pads Cartridge can be installed in the defibrillator. It disables the defibrillator's ability to shock, while walking you through patient care scenarios. We also offer easily accessible, online training that discusses everything from setting up an AED program to replacing your defibrillator's battery.

HeartStart OnSite AED specifications

Defibrillator

Defibrillator family	HS1. Order M5066A
Standard configuration	Defibrillator, battery, adult SMART Pads Cartridge (1 set), Setup and Maintenance Guides, Owner's Manual, Quick Reference Guide, date sticker
OnSite Ready-Pack configuration	Order option R01. Defibrillator, battery, carry case, adult SMART Pads (1 pre-installed set, 1 spare set), Setup and Maintenance Guides, Owner's Manual, Quick Reference Guide, date sticker
Waveform	Truncated Exponential Biphasic; waveform parameters adjusted as a function of each patient's impedance
Therapy	Adult defibrillation: peak current 32 A (150 J nominal into a 50 ohm load) Pediatric defibrillation with optional Infant/Child SMART Pads Cartridge installed: peak current 19 A (50 J nominal into 50 ohm load)
Shock-to-shock cycle time	Typically less than 20 seconds between shocks in a series
Quick Shock	Able to deliver a shock after the end of a CPR interval, typically in 8 seconds
Voice instructions	Detailed voice messages guides the responder through use of the defibrillator
CPR guidance	Instructions for infants and children under 25 kg (55 lb) or 0–8 years old, and adults and children over 25 kg (55 lb) or greater than 8 years old
Shock delivery	Via adhesive pads placed on patient's bare skin as illustrated on pads
Controls	Green SMART Pads Cartridge handle, green On/Off button, blue i-button, orange Shock button
Indicators	Ready light; blue i-button; caution light, Shock button lights up when shock is advised

Physical

Size	7.2 cm x 19 cm x 21 cm (2.8 in x 7.4 in x 8.3 in) H x D x W
Weight	With battery and pads cartridge: 1.5 kg (3.3 lb) Without battery or pads cartridge: 1 kg (2.4 lb)

Environmental/physical requirements

Sealing	Solid objects per EN60529 class IPX2 Drip-proof per EN60529 class IPX1
Temperature	Operating: 0° – 50° C (32° – 122° F) Standby: 10° – 43° C (50° – 109° F)
Humidity	Operating: 0% to 95% relative, non-condensing Standby: 10% to 75% relative, non-condensing
Altitude	Operating: 0 to 4,572 m (15,000 ft) Standby: up to 2,591 m (8,500 ft)
Shock/drop abuse	Withstands one-meter drop to any edge, corner or surface
Vibration	Meets EN1789 random and swept sine, road ambulance specification in operating and standby states
EMI (radiated/ immunity)	Meets EN55011 Group 1 Level B Class B and EN61000-4-3

Data recording and transmission

Infrared	Wireless transmission of event data to a smartphone or PC, using the IrDA protocol
Data stored	First 15 minutes of ECG and the entire incident's events and analysis decisions

Patient analysis system

Patient analysis	Evaluates patient ECG to determine if a rhythm is shockable. Rhythms considered shockable are ventricular fibrillation (VF) and certain ventricular tachycardias (VT) associated with lack of circulation. For safety reasons, some VT rhythms associated with circulation will not be interpreted as shockable, and some very low-amplitude or low-frequency rhythms will not be interpreted as shockable VF.
Sensitivity/ specificity	Meets AAMI DF80 guidelines and AHA recommendations for adult defibrillation (Circulation 1997;95:1677-1682)
Artifact detection	The effects of pacemaker artifact and electrical noise are minimized

Battery (M5070A)

Type	9 Volt DC, 4.2 Ah, composed of disposable long-life lithium manganese dioxide primary cells
Capacity	Minimum 200 shocks or 4 hours of operating time
Install-by date	Battery is labeled with an install-by date of at least 5 years from date of manufacture
Standby life	Typically, 4 years when battery is installed and when stored and maintained according to directions provided in this document

SMART Pads

Adult SMART Pads Cartridge	M5071A defibrillation pads for patients over 8 years of age or 25 kg (55 lb) and over
Infant/Child SMART Pads Cartridge	M5072A defibrillation pads for patients 0–8 years of age and under 25 kg (55 lb), by prescription only
Active surface area	85 cm^2 (13.2 in^2) each
Cable length	Adult SMART Pads: 137.1 cm (54 in) Infant/Child SMART Pads: 101.6 cm (40 in)
Use-by date	Cartridge is labeled with a use-by date of at least 2 years from date of manufacture

Training SMART Pads

M5073A	Adult Training SMART Pads Cartridge
M5074A	Infant/Child Training SMART Pads Cartridge
Function	Training SMART Pads Cartridges feature 8 real-world training scripts; use with training mat (included) or with adapters on manikins

Automated and user-activated self-tests

Daily automatic self-tests	Tests internal circuitry, waveform delivery system, pads cartridge and battery capacity
Pads integrity test	Specifically tests readiness-for-use of pads (gel moisture)
Battery insertion test	Upon battery insertion, extensive automatic self-tests and user-interactive test check device readiness
Status Indicators	Blinking green "Ready" light indicates ready for use; audible "chirp" indicates need for maintenance

* Refer to the Philips HeartStart OnSite AED Owner's Manual for detailed product instructions. All specifications based on 25° C (77° F) unless otherwise noted. The defibrillator and its accessories are made of latex-free materials.

PHILIPS

HeartStart Home Defibrillator

More than 68% of all cardiac arrests happen in the home[1]

Be prepared with the Philips HeartStart Home Defibrillator

Welcome to added peace of mind with the easy, safe and reliable home defibrillator from Philips. Our HeartStart Home Defibrillator is:

Easy to use

- Provides real-time guidance through step-by-step voice commands and CPR guidance.
- Use your home defibrillator with confidence – HeartStart is virtually ready-to-rescue right out of the box.
- Go at your own pace – integrated SMART Pads placed on the victim's bare skin sense and adapt the defibrillator's instructions to your actions every step of the way. If you may need to defibrillate an infant or a child under 25 kg (55 pounds) or 8 years old, it is recommended that you order the infant/child SMART Pads Cartridge, available separately.

Safe

- Trust the innovation of HeartStart Home, the first and only defibrillator available without a prescription.
- Use the defibrillator on patients of any age, including infants and children.[2]
- Personalized therapy – the HeartStart Home Defibrillator automatically determines if a shock is necessary and provides the right therapy for each individual person.

Reliable

- Deliver shock treatment after CPR, typically within 8 seconds, with our patented Quick Shock technology, among the fastest in its class.

HeartStart Home defibrillator specifications

Defibrillator family	
Defibrillator family	HS1. order M5068A, option C01
Standard configuration	Defibrillator, slim carry case, with pre-installed battery, adult SMART Pads cartridge (1 set), Quick Reference Guide, Setup Guide, Owner's Manual, 911 reminder sticker, training coupons, training DVD, enrollment card, Quick Start poster
Waveform	Truncated Exponential Biphasic; waveform parameters adjusted as a function of each patient's impedance
Therapy	Adult defibrillation: peak current 32 A (150J nominal into a 50-ohm load) pediatric defibrillation with optional Infant/Child SMART Pads cartridge installed: peak current 19 A (50 J nominal into 50-ohm load)
Shock-to-shock cycle time	Typically less than 20 seconds between shocks in a series
Quick Shock	Able to deliver a shock after the end of a CPR interval, typically in 8 seconds
Voice instructions	Detailed voice messages guide responder through use of the defibrillator
CPR guidance	Verbal instructions for adult and infant/child CPR provides instructions and audio cues for the appropriate number, rate, and depth of chest compressions, as well as for each breath
Shock delivery	Via adhesive pads placed on patient's bare skin as illustrated on pads
Controls	Green SMART Pads cartridge handle, green On/Off button, blue i-button, orange shock button
Indicators	Ready light; blue i-button; caution light, shock button lights up when shock is advised

Physical	
Size	2.85 in H x 7.40 in D x 8.30 in W (7.2cm H x 19cm D x 21cm W)
Weight	With battery and pads cartridge: 1.5 kg (3.3 lbs.) Without battery or pads cartridge: 1 kg (2.4 lbs.)

Environmental/physical requirements	
Sealing	Solid objects per EN60529 class IP2X drip-proof per EN60529 class IPX1
Temperature	Operating: 0° – 50° C (32° – 122° F) Standby: 10° – 43° C (50° – 109° F)
Humidity	Operating: 0% to 95% relative, non-condensing Standby: 10% to 75% relative, non-condensing
Altitude	Operating: 0 to 15,000 feet Standby: 0 to 8,500 feet > 48 hours and 8,500 to 15,000 feet < 48 hours
Shock/drop abuse	Withstands one-meter drop to any edge, corner or surface
Vibration	Operating: meets EN1789 random, road ambulance. Standby: meets EN1789 swept sine, road ambulance.
EMI (radiated/immunity)	Meets EN55011 Group 1 Level B Class B and EN61000-4-3

Data recording and transmission	
Infrared	Wireless transmission of event data to a smartphone or PC, using the IrDA protocol
Data stored	First 15 minutes of ECG and the entire incident's events and analysis decisions

Patient analysis system	
Patient analysis	Evaluates patient ECG to determine if a rhythm is shockable. Rhythms considered shockable are ventricular fibrillation (VF) and certain ventricular tachycardias (VT) associated with lack of circulation. For safety reasons, some VT rhythms associated with circulation will not be interpreted as shockable, and some very low-amplitude or low-frequency rhythms will not be interpreted as shockable VF.
Quick Shock	Able to deliver a shock after the end of a CPR interval, typically in 8 seconds
Sensitivity/specificity	Meets AAMI DF80 guidelines and AHA recommendations for adult defibrillation (Circulation 1997;95:1677-1682)
Artifact detection	HS1 can detect artifact and advise to stop movements or will pause analysis briefly, but does not minimize the artifact

Battery (M5070A)	
Type	9 Volt DC, 4.2 Ah, composed of disposable long-life lithium manganese dioxide primary cells
Capacity	Minimum 200 shocks or 4 hours of operating time
Install-by date	Battery is labeled with an install-by date of at least 5 years from date of manufacture
Standby life	Four years typical when battery is installed by the install-by date (will power the AED in standby state within the specified standby temperature range, assuming 1 battery insertion test and no defibrillation uses)

Infant/Child SMART Pads (optional)	
Adult SMART Pads cartridge	M5071A defibrillation pads for patients 8 years of age and older or 25 kg (55 lbs.) and over
Infant/Child SMART Pads	M5072A defibrillation pads for patients under 8 years of age or 25 kg (55 lbs.); cartridge by prescription only
Active surface area	85 cm^2 (13.2″^{2}) each
Cable length	Adult SMART Pads: 137.1 cm (54″) Infant/Child SMART Pads: 101.6 cm (40″)
Use-by date	Cartridge is labeled with a use-by date of at least 2 years from date of manufacture

Training SMART Pads (optional)	
M5073A	Adult Training SMART Pads cartridge
M5074A	Infant/Child Training SMART Pads cartridge
Function	Training SMART Pads cartridges feature 8 real-world training scripts; used with training mat (included) or with adapters on manikins

Automated and user-activated self-tests	
Daily automatic self-tests	Tests internal circuitry, waveform delivery system, pads cartridge, and battery capacity
Pads integrity test	Specifically tests readiness-for-use of pads (gel moisture)
Battery insertion test	Upon battery insertion, extensive automatic self-tests and user-interactive test check device readiness
Status Indicators	Blinking green "Ready" light indicates ready for use; audible "chirp" indicates need for maintenance

Tempus ALS

Monitor/Defibrillator

The Tempus ALS[1] is a modern approach to prehospital monitoring and defibrillation. The Tempus Pro monitor and Tempus LS-Manual defibrillator[3] work together to create a powerful, trustworthy solution that empowers caregivers to focus on the patient, unburdened by their equipment.

Features

Powerful, flexible monitoring and resuscitation

With its user-friendly layout, the lightweight (7 lbs) Tempus Pro monitor provides a range of monitoring parameters including: 12-lead ECG to monitor, arrhythmia, ST elevation and QT segment with alarms, capnography, noninvasive blood pressure, Masimo rainbow™ SET™ options, up to four lines of invasive pressure, and up to two lines of temperature[2]. Tempus LS-Manual is small enough (4.4 lbs)to be stored in a first-in bag.

Flexibility to grow with you

The Tempus ALS was designed with growth in mind to accommodate your needs and budget. By adopting universal technology standards and connectors, the Tempus ALS is built to grow with you as your needs evolve. USB and wireless interfaces allow expanded monitoring and diagnostics to include video laryngoscopy and ultrasound without adding additional standalone devices.

Wired or wireless connections

Proprietary communication technologies mean data can be stored, viewed and shared in multiple ways. And extra features, such as the customizable summary record of care, can be integrated into an ePCR, shared via email or exported to a USB – meaning that you can get the data you need, how you need it.

Ultrasound and vascular exams

An optional plug-in transducer (3.5 MHz for general purpose or 7.5 MHz for line placement or vascular exams) can extend the capabilities of the Tempus Pro platform to include ultrasound for basic field assessment. Create FAST exam reports (transmitted in real time or post-event) for automatic inclusion in the record of care.[5]

Specifications

Physical dimensions

Tempus Pro size	Standalone size: 10.3" wide x 8.5" high x 3.9" deep
Tempus Pro weight	Standalone weight (printer version): 7 lbs. with battery (without accessories)
Tempus LS-Manual size	Standalone size: 7.9" wide x 6.5" high x 2.8" deep (excluding rear clip)
Tempus LS-Manual weight	Standalone weight: 4.3 lbs. with battery (without accessories)

Physical characteristics

Weight	4 lbs
Event button	Quickly add drugs, fluids, therapies and interventions to the patent record
Tempus LS-Manual interface	Clearly labeled buttons
Alarms	Adjustable <lt/>= 85 dBA at 1 m
Alarm indicator	360° alarm visible indicator lights
User configurable	Visual and audible alarms
Format	User-selectable display formats
Modes	High-contrast, NVG compatible
Tempus Pro	Color 6.5" 640x480 pixels, 130 klux daylight readable display
Tempus LS-Manual	Color 5.7", 640x480 pixels
Graphical and tabular format	All vital signs parameters
Records	Summary record of care of drugs, fluids, therapies and interventions

Tempus Pro operating time[4]	Min 10.75 hours (display brightness=60%) or min 11.5 hrs (display brightness = 30%)[5]
Tempus LS-Manual monitoring time	Greater than 12 hours ECG monitoring from a fully charged battery
Tempus LS-Manual operating time	At least 300 shocks at 200 J from fully charged battery
Tempus LS-Manual and Pro battery type	Rechargeable, user-replaceable lithium-ion battery

[1] Tempus ALS is a modular monitor/defibrillator system consisting of Tempus Pro monitor and Tempus LS-Manual defibrillator.

[2] Optional, additional feature.

[3] Tempus LS-Manual (manual mode only) is 510(k) cleared. Tempus LS (AED & manual mode) is not available for sale in the US

[4] Test done without printing

[5] With ECG, Sp02, EtCO2, temperature (x2) and NBP every 15 minutes and display active 50% of the time; max 14 hours with battery saving mode activated

[6] Reliable data transmission (EDS) data is streamed automatically during the initial assessment and transport of the patient using Enhanced Data Service (EDS) protocol. EDS is designed to ensure effective data transfer even when the underlying connectivity.

[7] Depending on network availability, there may be a 2-3 second delay between display of the data on the Tempus Pro and display of the same data on IntelliSpace Corsium

Tempus IC2

Integrated monitor and telemedicine solution

An advanced, portable, multi-parameter vital signs monitor with integrated telemedicine. Tempus IC2 allows trained non-medical users to manage medical emergencies in the air, at sea, and in remote locations. Along with built-in ease of use, the Tempus IC2 features clear visual guidance and automated data collection, helping users to feel confident in managing a medical emergency.

Features

Real-time access to support

Tempus IC2 allows intermittent users and non-medical professionals with basic medical training to obtain and transmit a patient's clinical vital signs data, including 12-lead ECG plus images and video. The device also offers a two-way voice connection to connect the user to professional medical support who can access a patient remotely.

Discreet access to medical infrastructure

No one can predict when or where they may be injured or taken ill, or how serious the situation may be. Tempus IC2 provides assistance to medical professionals through a reliable, secure communication link with voice and data automatically connecting via existing satellite or terrestrial communication systems, with no need for proprietary software or standalone equipment.

Credible information, clear processes

With its compact, lightweight and robust design, Tempus IC2 can be used in any medical emergency situation. The collection of clinical grade, vital signs information that is routinely captured in an emergency room along with voice connection, visual guidance and logical help screens allows users wherever they are in the world to obtain professional support with difficult decisions, treatment guidance and advice.

Connected medical support

Imagine being in a remote and challenging location and hours away from quality medical help. With Tempus IC2, users can securely connect 24/7 to medical professionals who can fully control Tempus IC2 remotely while seeing exactly the same information on their screens as those displayed on the Tempus IC2, providing much-needed peace of mind to the user and patient.

Specifications

Physical dimensions

Standalone size	263mm x 216mm x 98mm (10.4" x 8.5" x 3.9")
Standalone weight	3 kg (6.6 lbs) including battery, RapidPak™ clip, NBP cuff, hose, communications cable and headset
Bag size	401mm x 276mm x 154mm (15.8" x 10.9" x 6.1")
Weight when packed in bag	5.9 kg (13 lb) Tempus IC2 plus accessories (excluding power supply, and mains lead/battery charger)

Thermometer

Type	Handheld, Bluetooth-enabled infrared tympanic temperature
Displayed range	32–43°C (89.6–109.4°F) (target)
Display resolution	0.1°C (0.1°F)
Accuracy	±0.2ºC (36–39°C) ±0.4°C (<lt/>36 <gt/>39°C) [±0.4ºF (96.8-102.2°F) ±0.5ºF (<lt/>96.8, <gt/>102.2°F)]
Bluetooth communications range	0–10 m (0–32'9")

Heart rate range	30–300 bpm
Input impedance	<gt/>100 MΩ
Dynamic range	±5 mV ac
Accuracy	±3 %
DC offset	±300 mV dc
Frequency response	0.05Hz–175Hz ±3 dB[5]
Sample rate	500 Hz
Common mode rejection	95 dB min, additional filters include mains, muscle, low and high pass and adaptive baseline zeroing
Protection	Protected against defibrillator charge at 5 kV

Range	0–149 bpm
Accuracy	0–70 bpm: ±1 bpm / 71–121 bpm: ±2 bpm / 122–149 bpm: ±3 bpm

Test range (preset to mg/dL)	10–600 mg/dL (0.6–33.3 mmol/L)
Reading time	3 seconds
Bluetooth communications range	Class 2, range 0–3 m (0–9' 10") in an open field

Range	25-239 bpm
Accuracy (all ages)	No motion ≤3 digits; motion ≤5 digits

Range	1–100 %
Accuracy (adult/child)	No motion/low perfusion: ±2 digits 70–100%; motion: ±3 digits, 70–100%
Perfusion index range	0.02–20%

Adult/large cuff range	20–260 mmHg
Adult/large cuff accuracy	±3 mmHg or ±2% (whichever is greater)
Child cuff range	20–260 mmHg
Child cuff accuracy	±3 mmHg or ±2% (whichever is greater)
Charger mains input voltage	100–240 V
Charger frequency	50–60 Hz & 400 Hz
Charger input currency	0.9 A max at approximately 100 V
Charger output voltage	8.4 V dc
Charger output current	<lt/> 2.73 A
Charger weight	0.25 kg nominal
Charger dimensions	107mm x 67mm x 36.5mm (4.2" x 2.6" x 1.4")
Power supply, external[4]	PSU-rated 100–250 V, 50 Hz, 115 V 400 Hz
Battery type	Single, external, user-replaceable, lithium-ion
Battery strength indicator	Integral
Battery life	Min 11 hours[1] [default display brightness, SpO_2/$EtCO_2$ (25% of the time) and NBP every 15 minutes]
Battery capacity	Nominal 7.4 V, 10.2 Ah
Battery shelf life	Approximately 7 hours remaining after 1 year storage[2]
Battery charge time from empty	6[3] hours
Annotations	Images can be annotated with text, colors, shapes which can be sent to Tempus IC2 by the hospital

[1] Battery shelf life and run times are based on a new, fully charged battery stored and used at 20°C. Run time is based on RDT's model of typical device usage in an incident.

[2] Subject to conditions of storage and use.

[3] Only the RDT Battery Charger (part number: 01-1012) can be used with the Tempus IC2.

[4] Battery may be charged (optionally) by the Tempus IC2 when running on mains power. Internal charging can be restricted if required.

[5] Note that during monitoring prior and post recording ECG frequency response filters will be 0.5–175 Hz.

Tempus Pro

Rugged, advanced monitor

The Tempus Pro places the needs of the prehospital care professional at the heart of its design. Ground-breaking in functionality, it is light enough to carry and small enough to hold in one hand. Rugged, yet highly intuitive to operate, it can easily be deployed in a wide range of clinical scenarios, with advanced capabilities to allow clear, documented decision-making.

Features

Capture, connect and decide

The Tempus Pro allows you to capture as much or as little data as you need. The on-screen smart patient care record can be augmented via the touchscreen, while you can choose how much data to collect and exactly what, when, where and how to share it. All data is encrypted and shared via authenticated, highly secure channels.

Unique, scalable platform

The functionality of the Tempus Pro system can be extended and upgraded when you need it to be. Add video laryngoscopy, ultrasound, defibrillation and telemedicine to further advance capabilities. And access feature, software and system updates, and configuration tools to evolve your system in line with your requirements, budgets and protocols.

Practical design and operation

The Tempus Pro features a 6.5" daylight-readable color display with high contrast mode, a glove-friendly touchscreen interface and multiple user-selectable display options. It is also night-vision compatible and features an integrated tactical switch for hostile environments.

Small, light, robust

The Tempus Pro is designed and built to meet the needs of prehospital care professionals. Weighing only 2.9 kg (6.4 lb) with a slender profile, the monitor allows you to flexibly carry all you need with you to the scene. The Tempus Pro is also highly durable – with an IP66 rating underlining its suitability for deployment in the most challenging environments.

Specifications

Physical dimensions

Standalone size	263 x 216 x 100 mm (10.3" x 8.5" x 3.9")
Standalone weight	2.9 kg (6.4 Ib) with battery and RapidPak clip only
Display	Color 165 mm (6.5″) 640x480 pixels, 130 klux daylight readable display

Anesthetic gas monitoring[2]

Display of AA gas vitals	Optional Masimo ISA OR+ anesthestic gas module

Ultrasound and video laryngoscopy[2]

Interson (optional)	General purpose, 3.5 MHz and line placement 7.5 MHz
Karl Storz C-Mac (optional)	Video laryngoscope imager and single use blades

Integral digital camera

Resolution	3.2 megapixels
Video streaming	H264 algorithm (bandwidth dependent)
Images	Included in patient record

Pulse rate

Range	25-239 BPM
Accuracy (all ages)	No motion ≤3 digits, motion ≤5 digits

Impedance respiration

Range	3-150 RPM
Accuracy	±2 RPM or ±2% whichever is greater

Invasive pressure[2]

2 channels	5 µV/V/mmHg, Response: 0–20 Hz (-3 dB)
Filters	50-60 Hz notch
Range	-99-310 mmHg
Expansion	Up to 4 channels via USB module[2]

Contact temperature

Resolution	±0.1°C / ±0.2 °F; accuracy: ±0.1 ºC
Compatability[3]	2 channel YSI 400 series
Measurement range	20–45°C (68–113°F)

Microstream etCO$_2$*

Flow rate (measured by volume)	50 (42.5 ≤ flow ≤ 65) ml/min
Accuracy	0–38 mmHg:±2 mmHg; 39–150 mmHg:±5% of reading;+0.08% per 1 mmHg over 38 mmHg

Microstream etCO$_2$*

Range	0-150 mm/Hg

Capnometry[2]

Respiration rate range	1-149 bpm
Respiration rate accuracy	0–70 BPM ±1 BPM 71–121 BPM ±2 BPM 122–149 BPM ±3 BPM

Noninvasive blood pressure

Adult range	20-260 mmHg
Pediatric range	20-230 mm/Hg
Neonate range	20-130 mmHg
Cuffs	Neonate disposable 1-5, infant, child, adult, large adult, thigh, cuff kit
Accuracy	±3 mmHg or ±2% (whichever is greater)

Pulse oximetry - Total oxygen content (SpOC®)[2]

Range	0-35 ml of O2/dL

Pulse oximetry - Carboxyhaemoglobin (SpCO®)[2]

Range	0-99.9 %
Accuracy (adult/ped/infant)	1-40 %, ± 3%

Pulse oximetry - Methemoglobin (SpMet®)[2]

Range	0-99.9 %
Accuracy (all ages)	1-15 %, ± 1%

Pulse oximetry - Total hemoglobin (SpHb® g/dL)[2]

Range	0-25 g/dL
Accuracy (adult/ped/infant)	8 - 17 g/dL ± 1 g/dL

Pulse oximetry - SpO_2

Range	1-100 %
Accuracy (adult/ped)	No motion or low perfusion ±2 digits 70–100%, motion ±3 digits 70–100%
Accuracy (neonate)	Motion, no motion and low perfusion ±3 digits 70–100%
Perfusion index	0,02-20 %
Response	<1 second delay
Technology	Masimo rainbow SET®
Sensor	Comfortable, waterproof, soft-tip
Pleth Variability Index (PVI®)[2]	Pleth Variability Index (PVi)[2]

ECG monitoring

Acquisition sample rate	500 Hz
Common mode rejection	95 dB minimum, additional filters include mains, muscle, and low and high pass
Arrhythmia monitoring/alarms	Arrhythmia monitoring/alarms
ST elevation	ST elevation
QT segment measurement	with alarms[2]
3,4,5 and 12-lead monitoring	via standard snap-on electrode
Heart rate range	30-300 bpm
Acquisition and interpretation	12-lead acquisition[2] and 12-lead interpretation
Accuracy	±3%, DC offset, ±300 mV dc
Frequency response	0.05-175 Hz , ±3dB

Operating time

10.75 hours	Display brightness at 60%, ECG, SpO_2, $EtCo_2$, temp x2 and NBP every 15 minutes
11.5 hours	Display brightness at 30%, ECG, SpO_2, $EtCo_2$, temp x2 and NBP every 15 minutes
Up to 14 hours	With battery saving mode activated[4]

[1] Tempus Pro standalone weight: 6.4 lb (2.9 kg) nominal including battery, excluding IP module, accessories and printer.

[2] Optional, additional feature.

[3] One channel fitted as standard, second channel is optional.

[4] Display active 50% of the time.

* Uses Oridion Microstream technology

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Ярославль (4852)69-52-93

Россия +7(495)268-04-70
Киргизия +996(312)-96-26-47
Казахстан +7(7172)727-132

pih@nt-rt.ru || https://philipsmed.nt-rt.ru/