

EC-ABP Ambulatory BP System

Technical specification



TECHNICAL SPECIFICATIONS OF AMBULATORY BLOOD PRESSURE SYSTEM

BP measurement method	Oscillometric with step deflation, Disatolic values correspond to Phase 5 Korotkoff Sounds
BP measurement range	20 – 280 mmHg (max inflation 300 mmHg)
Pressure Transducer Accuracy	± 3 mmHg
Pulse Rate Range	30 – 240 BPM (Beats Per Minute)
Pulse Rate Accuracy	± 2% or ±3 BPM, whichever is greater
Calibration	The device should be verified on a yearly interval.
Safety Systems	Max. inflation pressure is limited to 300 mmHg; Auto safety release valve for power failure. Maximum cuff inflation time is limited to 75 seconds. Duration of blood pressure reading is limited to 130 seconds.
Data Connector	Mini USB B type connector
Min. Power supply	2 x 1.2 V AA rechargeable batteries of minimum 2500 mAh capacity or 2 x 1.5V AA high quality alkaline batteries
Size	Approx. 125 x 70 x 33 mm
Weight	Approx. 250g (incl. Batteries)
Screen	No screen
Clinical Accuracy	Meets accuracy requirements of ANSI/AAMI SP10:2002(R)2008, EN1060-4:2004 and ISO 81060-2:2009.
Patient button	Yes
Storage Card	built-in 2GB (uSD), more than 4000 measurement
Interval settings	10 - 90 min (adjustable in 1 minute intervals)
Recording Period (hours)	8-336 hours (~ 72 h on one set of batteries)

AMBULATORY BLOOD PRESSURE SOFTWARE FUNCTIONS

<ul style="list-style-type: none"> Start new recording from the PC using wireless connection 	<ul style="list-style-type: none"> Adjustable BP measurement frequency (awake, asleep, special time) 	<ul style="list-style-type: none"> Visualization of evaluated record on PC
<ul style="list-style-type: none"> Store the Indication and medication of the patient 	<ul style="list-style-type: none"> Awake, Asleep and special time 	<ul style="list-style-type: none"> Adjustable max cuff pressure
<ul style="list-style-type: none"> BP measurement after start 	<ul style="list-style-type: none"> Total, Asleep, Awake systole-diastole charts 	<ul style="list-style-type: none"> HR, MAP, Systole, Diastole graphs
<ul style="list-style-type: none"> Total, Asleep, Awake systole-diastole-MAP histograms 	<ul style="list-style-type: none"> Systole against HR scatter 	<ul style="list-style-type: none"> Diastole against HR scatter
<ul style="list-style-type: none"> Diastole against Systole scatter 	<ul style="list-style-type: none"> Statistics view 	<ul style="list-style-type: none"> Hyperbaric Impact Systole
<ul style="list-style-type: none"> Hyperbaric Impact Diastole 	<ul style="list-style-type: none"> AASI 	<ul style="list-style-type: none"> Diurnal Index Systole
<ul style="list-style-type: none"> Diurnal Index Diastole 	<ul style="list-style-type: none"> Dipper status 	<ul style="list-style-type: none"> Morning Surge
<ul style="list-style-type: none"> Battery stats 	<ul style="list-style-type: none"> Adjustable parameters for analysis 	<ul style="list-style-type: none"> Comparison view
<ul style="list-style-type: none"> Adult and Pediatric mode 	<ul style="list-style-type: none"> Circadian index 	

BASIC FUNCTIONS OF SOFTWARE**DATABASE FUNCTIONS**

• Common database for all Labtech system	• Record recycle bin function	• Search records
• Acquire Patient ID from barcode reader	• System log	• Local database, Network database: Microsoft SQL Server database, SQLite database
• Acquire Patient ID using magnetic card reader	• Filter records	• Different date format
• Medical record for patients	• Import – export records	• Password protected software starting
• Access control	• Import – export records by date	

BASIC FUNCTIONS

• Automatic update of the software	• Normal and MSI install	• Full screen mode
• HIS integrations: GDT, DICOM MODALITY WORKLIST, Cardiospy SDK	• Two display mode	• Email function
• FTP integration		

PRINT AND EXPORT FUNCTIONS

• Report printing and exporting	• Automatic print	• Selectable reports
• Color and Black and white reports	• Contrast settings	• Resizable resolution
• Customizable company logo	• Automatic diagnosis	• Custom report
• Adjustable paper speed and amplitude	• Import /Export settings	

SOFTWARE MINIMUM CONFIGURATION

Processor	minimum: Intel® Core™ i3 recommended: Intel® Core™ i5 or better (Sandy Bridge or newer architecture)
RAM	minimum: 4 GB; recommended: 8 GB
Graphics card	DirectX 10 compatible, min. 128 MB video memory
Display	minimum: min. 1280x800 resolution recommended: 22" monitor 1920 x 1080 resolution (Full HD)
HDD	500 GB (SATA II or newer recommended)
Interface	1 USB port for the EC-2H/3H/12H/ABP recorder 1 USB port for the USB-02 key 1 USB port for the printer
Printer	Laser (printing speed: 15-20 page/min, color printer recommended)
Operating system	Windows 7, Windows 8, Windows 8.1, Windows 10 (32-bit or 64-bit versions)

*Windows XP is no longer supported by Microsoft. Labtech provides only limited support for previously installed systems.

EC-ABP System - Labtech

labtech.hu/en/product/holter-ecg-and-abp-systems/ec-abp

Labtech



Full disclosure Blood Pressure System without PC and printer. The EC-ABP Ambulatory Blood Pressure System is a member of the PC based ECG Holter product family. The diagnostic device operates with rechargeable or alkaline batteries, being suitable for 50-hour BP monitoring with up to 300 BP readings, using oscillometric technology.

Full disclosure Blood Pressure System without PC and printer. The EC-ABP Ambulatory Blood Pressure System is a member of the PC based ECG Holter product family. The diagnostic device operates with rechargeable or alkaline batteries, being suitable for 50-hour BP monitoring with up to 300 BP readings, using oscillometric technology. It is a clinically validated technology in all three internationally recognized standards (BHS, ESH and ANSI). The device computes accurate and comprehensive systolic and diastolic readings, heart rate, mean arterial pressure, BP load and pulse pressure. It provides report generation, editing, and data export-import functions. The integrated software can be operated in a network environment with a common database for the entire ECG Holter product family. The software is available with a wide range of languages to choose from.

The System consists of: 1 pc EC-ABP Recorder + analysis SW + USB-02/A interface + accessories*.

The System can be extended by the following recorders: EC-ABP.

*The manufacturer reserves the right to change the list of accessories at any time.

Basic accessories

Picture	Accessory	Item number
	USB Card installation software	ACC-0SWCD-02
	USB-02/A interface	DEV-0USBA-02
	Recorder bag (EC-ABP, EC-3H/ABP)	BAG-3HABP-02
	Waist belt (160 x 3,7 cm)	BEL-00000-01

Battery charger MAXI Power Set

CHA-0004X-03



BP cuff, Adult

CUF-00LOC-31



Data transfer cable (USB A- USB miniB)

CAB-00USB-02



Extension cable for USB-02

CAB-00USB-01



Case for holding the systems – New

CAS-00000-03



Installation and Update Guide

USR-00000-01



User manual for ABP recorders

USR-00000-03

