



Basic set



Cuffs

- Four cuff sizes (SS*/ S / M / L) are available.
- Airbags in the cuffs and the inflation bulb are made of natural rubber.

*SS is extra small

Specifications

Measurement method	Oscillometric (double cuff supported)
Displayed measurements	Systolic blood pressure, diastolic blood pressure, pulse rate (pulse waves)
Measurement range	Pressure: 0 - 320mmHg (0-42.7kPa) Pulse rate: 30 - 199 beats/min
Accuracy	Pressure: ± 3 mmHg (± 0.4kPa) Pulse rate: ± 5%
Pressurization method	Manual
Decompression method	Automatic
Measurement area	Upper arm
Warnings	Insufficient and excessive pressurization, low battery
Errors	Relevant error codes are displayed (please consult IFU)
Automatic power off	After 3 minutes without input on the operation panel
Number of measurements	ES-H55A provides about 1,000 measurements with anew AA alkaline cell when used continuously in the Normal Mode. (Refer to IFU)
Power supply	Voltage: 1.5 V DC or 1.2 V DC
Operating conditions	Temperature: 10 - 40° C; Humidity: 15 -90% RH (no condensation)
Storage conditions	Temperature: -20 - 60 ° C Humidity: 10 - 95% RH (no condensation)
Dimensions	Main body:(w) 70mm x (h) 46 mm x (d) 169 mm Cuff (size M): (w) 150 mm x (l) 520 mm
Weight	Main body: 130 g (excluding the battery) Cuff (size M): Approx. 150 g
Validation	The Elemano was tested on 87 persons to compare its accuracy with that of the auscultatory method according to the AAMI SP-10 protocol. ⁽¹⁾ The results prove that the Elemano fulfils the AAMI criteria.

References: (1) Accuracy and applicability of the Terumo ES-H55 double-cuff sphygmomanometer for hospital use Osamu Tochikubo, Kiyoko Nishijima, Kenji Ohshige and Kazuo Kimura - Blood Pressure Monitoring 2003, 8:203-209

Blood pressure monitor and accessories

To enable the right choice of cuff size and meet the hygiene requirements of a medical environment, Terumo offers a washable nylon cuff cover and four sizes (SS, S, M, L) to meet those requirements.

Product	Product Code
Elemano blood pressure monitor <i>(incl. Monitor, M-size nylon cuff, 2xbatteries, IFU)</i>	ES*H5503
Cuff <i>(washable nylon cuff cover + air bag and tubing)</i>	
Extra Small 13-20 cm (arm circumference)	XX*ES11SS06
Small 17-26 cm (arm circumference)	XX*ES11S06
Medium 24-32 cm (arm circumference)	XX*ES11M06
Large 32-42 cm (arm circumference)	XX*ES11L06
Cuff Cover <i>(washable nylon cuff cover)</i>	
Extra Small 13-20 cm (arm circumference)	XX*ES14SS06
Small 17-26 cm (arm circumference)	XX*ES14S06
Medium 24-32 cm (arm circumference)	XX*ES14M06
Large 32-42 cm (arm circumference)	XX*ES14L06
Inflation bulb	XX*ES1802
Storage bag	XX*ES1702
Accuracy check parts	XX*ES1602

Products designed with a purpose...

...to help you help them.

Elemano™

Hybrid Design Blood Pressure Monitor



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Hybrid Design Blood Pressure Monitor for Medical Professionals, from TERUMO

Gold standard accuracy¹ Pressure: ± 3mmHg, Pulse: ±5%

- Compared accuracy with auscultatory method using mercury
- Method specified by AAMI (Association for the Advancement of Medical Instrumentation) SP-10

Minimal user errors Ease of use and cost efficient

- 5 second inflation time*
- 30 second automated readout of BP and pulse*
- No calibration necessary

Measurement standardized

- All levels of health care workers can measure
- No special technique necessary

Manual inflation, automatic measurement

- Easy to inflate and re-inflate adapting to each patient's needs.
- With no motor required, it provides superior operating economy (less battery consumption)

Compact one-body design

- Integrated construction of monitor and inflation bulb
- Compact dimensions that enable single-handed operation

Total flexibility

Choose from three measurement modes to meet patient needs

1. Normal (automatic)

For routine blood pressure measurements

2. Slow (automatic)

For patients with hypotension and a weak pulse. Deflation speed is at a lower rate of decompression than in Normal mode.

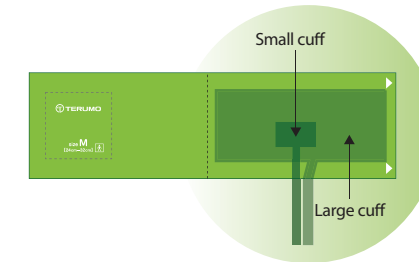
3. Auscultation (manual)

Conventional manual reading of blood pressure using a stethoscope.



Improved technology to measure patients effectively New Double-Cuff Technology

- Achieves a reliable automatic measurement
- Large cuff halts the flow of blood
- Small cuff detects pulse wave clearly
- Minimizes variety of blood pressure reading
- Maximizes measurement sensitivity



Operation flow

Automatic measurement

1. Select mode. (Normal or Slow)
2. Pressurize with inflation bulb. (Aim: Expected systolic pressure + 30 to 40mmHg)
3. Stop inflation and measurement starts automatically.

Auscultation mode (Manual measurement)

1. Select Auscultation mode.
2. Pressurize with inflation bulb. (Aim: Expected systolic pressure + 30 to 40mmHg)
3. Stop inflation and start measurement by auscultation method.

Variety of practical functions



Measures pulse at same time



Visualized pulse strength



One record of last read



Long battery life



Choice of cuff sizes



Mercury free

*Times for inflation, BP and pulse measurements may vary.

1. Brand-Altman plots comparing ES-H55A and auscultatory method. SBPD: systolic blood pressure (SPB) with ES-H55A. DBPD: diastolic blood pressure (DBP) with ES-H55A. SBPA: auscultatory SBP DBPA: auscultatory DBP Lines indicate mean ±2 SD. References: Tochikubo, O. et al, *Devices and Technology Blood Pressure Monitoring* 2003 Oct.; 8(5): 203-209 "Accuracy and applicability of the Terumo ES-H55A double-cuff sphygmomanometer for hospital use."