

# Smartdop™ 45

BI-DIRECTIONAL DOPPLER  
WITH WAVEFORM DISPLAY & PRINTER

**MADE IN JAPAN**



# BI-DIRECTIONAL HAND HELD DOPPLER WITH WAVEFORM DISPLAY & PRINTER

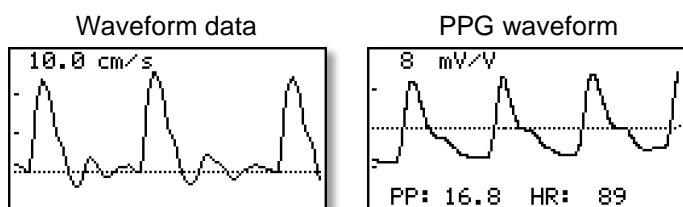
## Smartdop 45

- Bidirectional Doppler with LCD & PRINTER
- Multi-probe selection of 2, 4, 5, 8, 10 and 20MHz
- 2 probe connection available
- 30 waveforms memory and USB interface
- Blood volume flow calculations
- Working modes: Waveform and Memory
- Fully automatic gain control & baseline adjustment w/o manual intervention

### CLINICAL APPLICATIONS

- Detection of arterial and venous blood flow velocity for vascular disease.
- PEAK & MEAN blood velocity determinations.

### DISPLAY SAMPLE



### Numerical data

ABI R PT	FREEZE	
S:	32.0 cm/s	
MN:	16.0 cm/s	
D:	8.4 cm/s	
MIN:	8.2 cm/s	
RP:	0.74	SD: 3.90
PI:	1.54	HR: 72 BPM

DIAM:	2.6 mm	FREEZE
MAX:	59.9 ml/min	
MIN:	15.0 ml/min	

### DOPPLER PROBES

**Standard (Clinic):** 2, 4, 5, 8 & 10MHz



#### Optional probes:

- Pencil\*1: 8MHz
- Flat: 8MHz

#### Sterilizable probes: (Amplifier required)

- Pencil: 8, 10 and 20MHz\*2
- Autoclavable: 8MHz
- Amplifier: 8, 10 and 20MHz\*2

Other probes available

\*1: Standard pencil probe is not available on European Union Countries.

\*2: 20MHz probe is not available on European Union Countries.

### OPTIONS

#### Windows software:

- Smart-V-Link for Windows

#### PPG options:

- PPG probe (PG-21)
- Toe cuff (DVC-1.9H/ DPC-2.5H)
- PPG clip
- Spymomanometer



### ACCESSORIES

Carrying case/ AC charger / Ultrasonic gel  
/ Printing paper / US probe

### SPECIFICATIONS

**Power Supply:** Ni-MH rechargeable battery pack or AC adaptor

**Full Charge life:** Approx. 2.5 hours / Battery status

**Recharge:** Approx. 3 hours by the AC adaptor

**Speaker output:** Max. 250mW or more

**Automatic shut-off:** No signal: 5min. /Freeze: 10min.

**Multi frequency:** 2, 4, 5, 8, 10 and 20MHz\*2

**Protection:** Auto off by 2 min w/o operation

\*2: 20MHz probe is not available on European Union Countries.

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**LCD display:** 128 x 64 dots, LCD real time monitoring and battery status indicator

**External Outputs:** Headset connector  
USB port for PC connection

**Dimensions:** 92 (W) x 210 (L) x 60 (H)mm  
(Not including probe holder)

**Weight:** Approx. 440g (Not including probe)

**Operating environment:** 10 to 37°C.

**Electrical safety:** Conforms to IEC60601-1



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Specifications are subject to change.

