

# *Hadeco* *DOPPLERS*



**EXCELLENCE  
IN HUMAN SERVICE AND TECHNOLOGY**

 **Hadeco**®

# Hadeco DOPPLERS

## Minidop ES-100VX



- Pocket Doppler with great sounds
- Interchangeable probes
- Convenient probe activation button & Volume control

Power: 9 volt alkaline battery  
Battery life: 3 hours or more  
Auto-shut-off: 3 min. with no signal  
Probe button: Power ON / OFF  
Speaker: 50 mm diam.  
Dimensions: 78 (W) x 141 (L) x 27 (H) mm  
Weight: Approx. 240g (including battery and probe)  
External output: Headset

## Bidop ES-100V3



- Bi-directional Doppler with backlit waveform LCD
- 30 waveform memory & USB port for Smart-V-Link
- Optional PPG probe
- Heart rate monitoring when used with 2 MHz Probe
- 2MHz BEEP mode for precordial bubble detection

Power: 9 volt alkaline battery  
Battery life: 2.5 hours or more  
Auto-shut-off: 2 min. with no signal  
Speaker: 50 mm diam.  
LCD display: 128 x 64 dots, STN LCD with backlight  
Dimensions: 78 (W) x 141 (L) x 27 (H) mm  
Weight: Approx. 280g (including battery & probe)  
External outputs: Headset & USB

## Smartdop 45



- Bi-directional Doppler with backlit waveform LCD
- 30 waveform memory & USB port for Smart-V-Link
- Optional PPG, Pneumo and Foot temperature Probes
- Heart rate monitoring when used with 2 MHz Probe
- 2 probe connection available

Power: Ni-MH rechargeable battery pack or AC adaptor  
Battery life: 2.5 hours or more  
Auto-shut-off: 5 min. with no signal  
Speaker: 70 mm diam.  
LCD display: 128 x 64 dots, STN LCD  
Dimensions: 92 (W) x 210 (L) x 60 (H) mm  
Weight: Approx. 560g (including probe)  
External outputs: Headset & USB

## Bidop 7

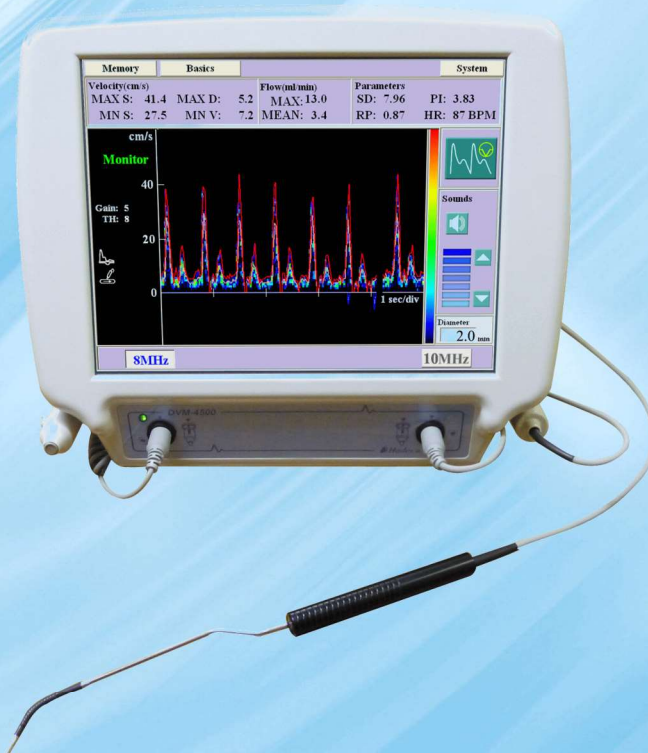
CE 0123



- Bi-directional Doppler with Large Color LCD
- Newly advanced Great Sounds
- 30 waveform memory & USB port for Smart-V-Link
- Optional PPG probe
- Snap-lock connector for easy insertion and removal
- PPG-BP mode for easier Toe pressures

Power: Ni-MH rechargeable battery pack or AC adaptor  
 Battery life: 2.5 hours or more  
 Auto-shut-off: 5 min. with no signal  
 Speaker: 77 mm diam.  
 LCD display: 320 x 240 dots, 3.5-inch TFT Color LCD  
 Dimensions: 116.5 (W) x 214 (L) x 60.5 (H) mm  
 Weight: Approx. 570g (including probe)  
 External outputs: Headset & USB

## DVM-4500



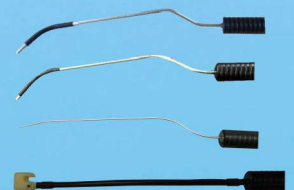
- Bi-directional Doppler blood flow meter
- 10-inch large color touchscreen
- Interchangeable clinic/ surgical probe selection of 4, 5, 8, 10, 20 MHz & PPG
- Exporting to PDF and DICOM® files for USB flash memory
- High speed CPU & FFT analyzer

Power: 100-240V AC, 50 / 60 Hz  
 Speaker output: 2.4W (1.2W + 1.2W)  
 LCD touchscreen: 10.4 inch, 800 x 600 dots  
 Dimensions: 300 (W) x 167 (D) x 244 (H) mm  
 Weight: Approx. 3.1kg (including AC adaptor)  
 External outputs: Headset & USB

Designated probes for DVM4500:

- Flexible 10MHz: NP10M2S8AF
- Flexible 20MHz: NP20M12S8AF
- Bayonet extra-thin: NP20M1S8A
- Tucking: TK10M\*S8AF

\*: Diameter (3/ 4/ 5mm)



# Hadeco DOPPLERS

## Smartdop XT

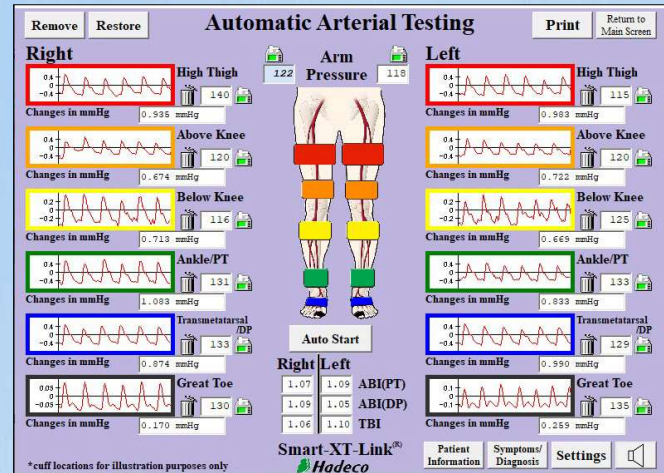
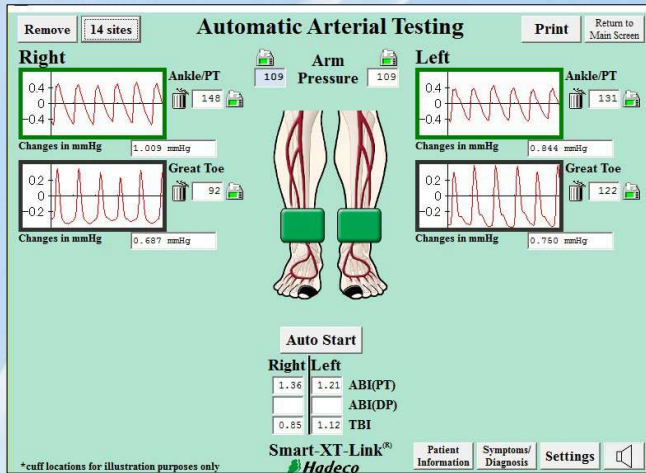
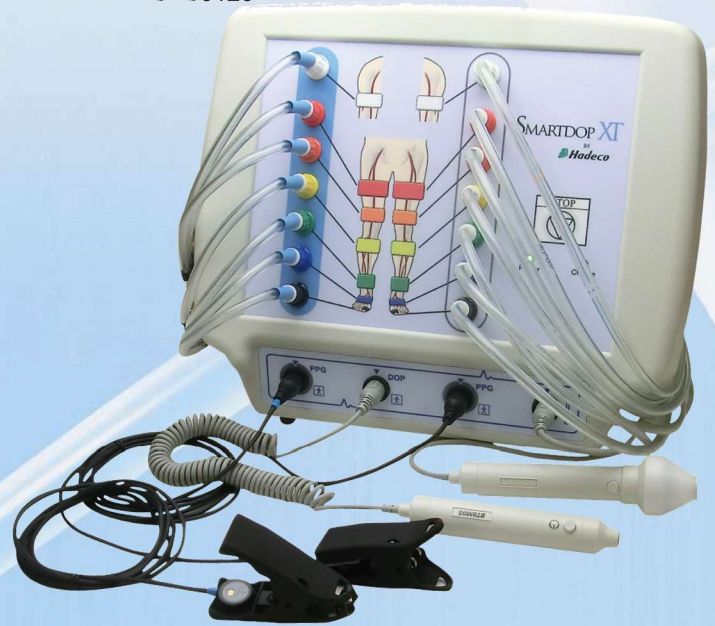
CE<sub>0123</sub>

-6 ports-



CE<sub>0123</sub>

-14 ports-

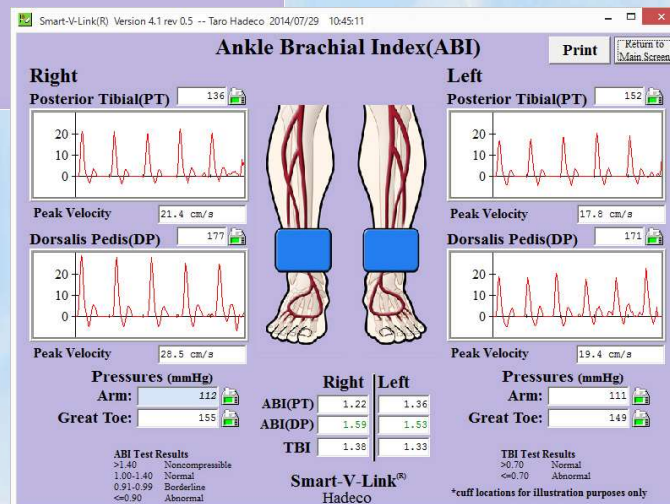
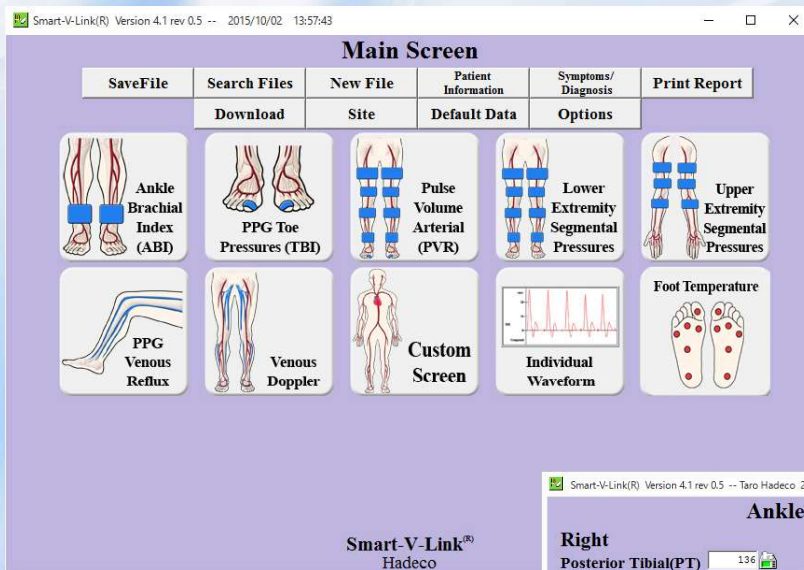


<Smart-XT-Link software>

- Automatic ABI, TBI studies, waveforms and PVR's for up to 6-site / 14-site
- PPG Venous reflux study
- Foot temperature study, optional
- All tests controlled & stored by computer with Smart-XT-Link for Windows

Power: Ni-MH rechargeable battery pack or AC adaptor  
 Speaker output: 250mW or more  
 Dimensions: 300 (W) x 167 (D) x 244 (H) mm  
 Weight: 6 ports: approx.3.6kg / approx.14 ports: 4.0kg (excluding AC adaptor and components)  
 Options: Cuffs, Doppler probe, Temperature probe& Ultrasonic gel

## Smart V-Link for Windows



### -Vascular link software for Hadeco Doppler-

- Easy documentation for ABI, TBI & arterial blood velocity
- Customized screen up to 14 sites for expanded testing capabilities
- FFT analysis with ES-100V3, Bidop 7, Smartdop45 and DVM-4500
- Foot Temperature study with ES-100V3 and Smartdop45, optional
- Auto-Freeze & Auto-Decision available for easy operation
- Abbreviated site name available for enhancing Bidop 7, Smartdop 45 and ES-100V3 mobility

#### <System Requirements>

Doppler*1	ES-100V3, Bidop 7, Smartdop45, DVM-4500
OS	Windows 11/10 (Except Tablet PC)
Display	800 x 600 dots, 256 colors or more
Serial interface	USB 2.0
Install media	USB flash memory

\*1: As of Dec. 2023

# Hadeco DOPPLERS

## Minidop ES-100VII 2MHz



- Hand-held Doppler with LCD
- Fetal heart rate with great sounds
- 3 mode (Average, Real-time & Manual counting)
- Optional waterproof probe

Power:	a 9V alkaline battery
Battery life:	2.5 hours or more
Auto-shut-off:	3 min. with no signal
Speaker:	50 mm diam.
LCD display:	Heart rate, low battery & heart beat indicators
Dimensions:	78 (W) x 141 (L) x 27 (H) mm
Weight:	Approx. 260g (including battery and probe)
External output:	Headset
Probe name:	T2M25N8C/ T2M25N8W (Water proof)

## ECHO SOUNDER ES-102EX



- Desktop Doppler with LCD & large speaker
- 3 modes (Average, Manual counting & Bargraph)
- Optional carrying handle available

Power:	Ni-Cd rechargeable battery pack or AC adaptor
Full charge life:	5 hours or more
Auto-shut-off:	3 min. with no signal
Speaker:	70 mm diam.
LCD display:	Heart rate, sound level & battery level
Dimensions:	252 (W) x 192 (D) x 91 (H) mm
Weight:	Approx. 1.2kg (including probe)
External output:	Headset
Probe name:	T2M25N8A

**Spec. Chart for Hadeco Doppler:**

Specs. Model	Display	Printer	Frequency (MHz)	Waveform memory	S-V-Link Software	Blood Pressure recorder	FFT	Volume Flow	Power sources	PPG
ES-100VX	-	-	2, 4, 5, 8, 10, 20	-	-	-	-	-	9V alkaline	-
ES-100V3	LCD (Backlit)	-	2, 4, 5, 8, 10, 20	30	✓	-	With S-V-Link	✓	9V alkaline	option
Bidop 7	LCD (Colored)	-	2, 4, 5, 8, 10, 20	30	✓	-	With S-V-Link	✓	AC/DC 2way	option
Smartdop 45	LCD (Backlit)	✓	2, 4, 5, 8, 10, 20	30	✓	-	With S-V-Link	✓	AC/DC 2way	option
DVM-4500	LCD (Touch screen)	-	4, 5, 8, 10, 20	30	✓	-	✓	✓	AC	option
Smartdop XT	PC Based	PC Based	4, 5, 8	Up to PC capability	-	✓	-	-	AC/DC 2way	✓
ES-100VII, 2MHz	LCD (Backlit)	-	2	-	-	-	-	-	9V alkaline	-
ES-102EX	LCD (Backlit)	-	2	-	-	-	-	-	AC/DC 2way	-

**Spec. chart for Doppler probes:**

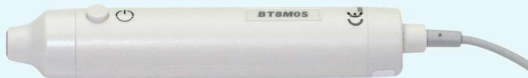
Specs. Model	Type	Frequency (MHz)	Required Amplifier	Sterilization method	Connecting Dopplers					
					ES-100VX	ES-100V3	Bidop 7	Smartdop 45	DVM-4500	Smartdop XT
BT*M05S8C	Standard	4, 5, 8, 10	-	-	✓	✓	-	✓	4, 5, 8MHz only	4, 5, 8MHz only
ST*M05S8C					-	-	✓	-		
BP8M05S8A	Pencil	8	-	-	✓	✓	-	✓	✓	✓
SP8M05S8A					-	-	✓	-	-	
BF2M20S8A	Flat	2	-	-	✓	✓	-	✓	-	-
BF8M15S8A	Flat	8	-	-	✓	✓	-	✓	✓	✓
SF8M15S8A					-	-	✓	-	-	
BT2M20S8C	Standard	2	-	-	✓	✓	-	✓	-	-
ST2M25S8C					-	-	✓	-	-	
VRP-*	Pencil	8, 10, 20	✓	Sterrad	✓	✓	✓	✓	8MHz only	-
LRP-*	Long	8, 10	✓	Sterrad	✓	✓	✓	✓	8MHz only	-
NRP-*	Bayonet/ Flexible	10, 20	✓	Sterrad	✓	✓	✓	✓	-	-
CRP-*	Surgical	10, 20	✓	Sterrad	✓	✓	✓	✓	-	-
ACP-08	Pencil	8	✓	5 times Autoclave	✓	✓	✓	✓	✓	-
NP series	Bayonet/ Flexible/ Ultra thin	10, 20	-	Sterrad	-	-	-	-	✓	-
TK series	Tucking	10	-	Sterrad	-	-	-	-	✓	-
PG-21	Photoplethysmography		-	-	-	✓	-	✓	✓	-
PG-30					-	-	✓	-	-	
PG-01					-	-	-	-	✓	

\*: Frequency

# PROBE SELECTION

## Vascular Probes;

Standard probe: **BT\*M05S8C / ST\*M05S8C**  
4, 5, 8 & 10MHz



Pencil probe: **BP8M05S8A / SP8M05S8A**  
8 MHz



Flat monitoring: **BF8M15S8A / SF8M15S8A**  
8 MHz



## Surgical Probes (Amplifier required);

Pencil probe, reusable: **VRP-\***  
8, 10 & 20 MHz



Laparoscopic probe: **LRP-\***  
8 & 10 MHz



Neurovascular probe: **NRP series**  
10 & 20 MHz



5 time autoclavable: **ACP-08**  
8 MHz



Amplifier: **BDP\*MS8 / SBDP\*MS8**  
8, 10 & 20 MHz



## Fetal Probes;

Standard probe: **BT2M20S8C / ST2M25S8C**



Flat probe: **BF2M20S8A**



\*: Frequency

## PPG probes

PPG: **PG-21 / PG-30**



## Cuffs;



## Temperature Probes;

- **TP-01: for SDXT**
- **TP-02: for ES-100V3, Smartdop45**



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080-00122-22  
Printed in Japan