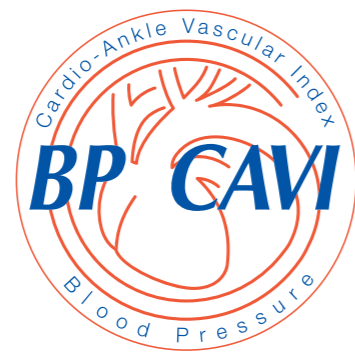


Vascular Screening Device

VaSera VS-2000

New Patient Management Partner



FUKUDA DENSHI reserves the right to change specifications without notice.



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The Future of Cardiovascular, Blood Pressure and Atherosclerosis Management.

Blood pressure measurement is no longer a daily practice.
 Step up the caliber of your patient evaluations.
 Clinical quality measurement of Blood pressure and arterial hemodynamics.
 By measuring arterial stiffness, you can know your patient's "Vascular Age".

Simple examination, easy to use

As easy as pressing a button, VaSera VS-2000 performs a suite of cardiovascular tests, and works as your new patient management partner.

Easy-to-read screens



- 1 Test Screens**
Provides a full display of the examination flow and progress.
- 2 Real-time CAVI check function**
Fully automated test quality checks ensure reliable results at the time of testing.
- 3 Clear results screen**
Comprehensively reported results, yet simple to read.

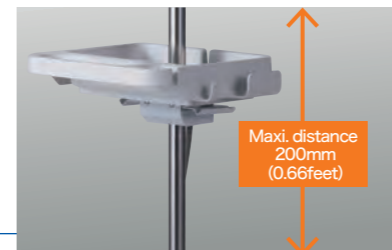
Shortened examination time

You can do the CAVI test with only 2 cuffs and 1 PCG microphone. The standard system configuration comes with 2 cuffs, optionally you can increase to 4 cuffs system.

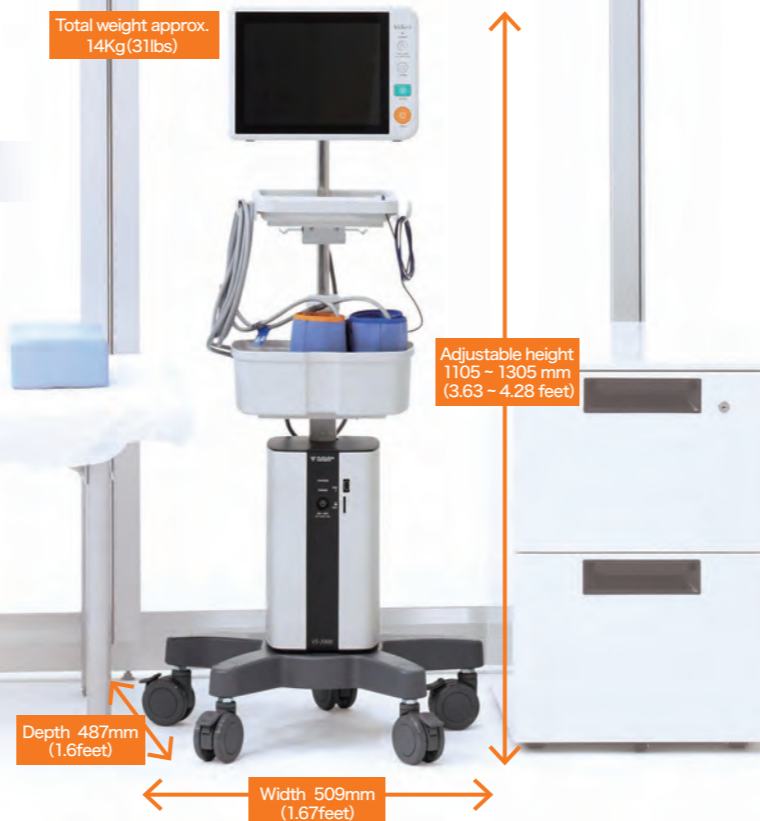


Better flexibility

- 1** New design which can be used on a desk.
- 2** Smooth operation with capacitive touch screen.
- 3** Height of shelf and monitor can be adjusted.
- 4** More functions are available by adding modular options.

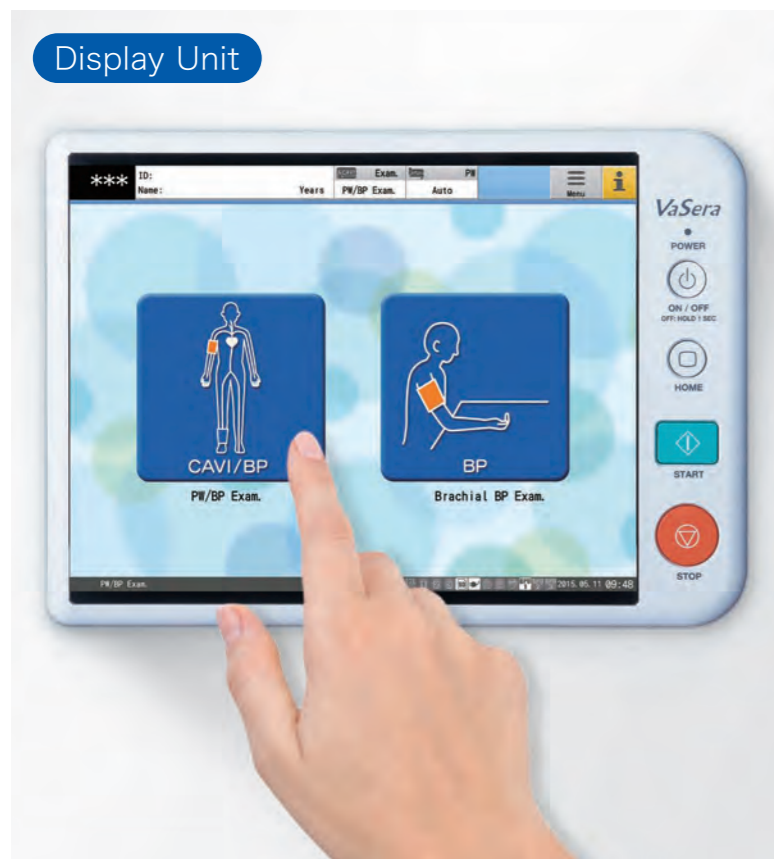


Fits in your office

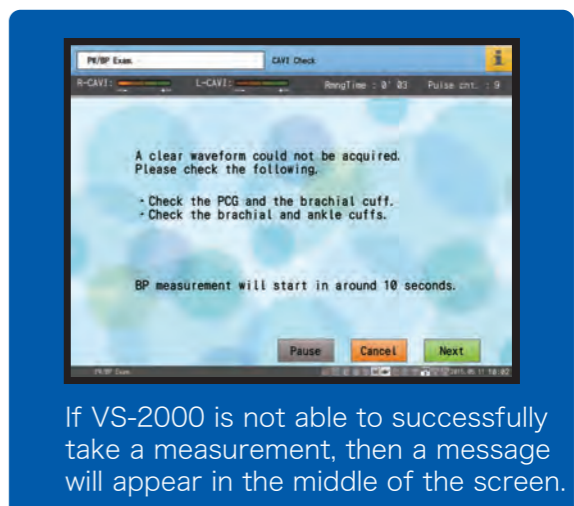
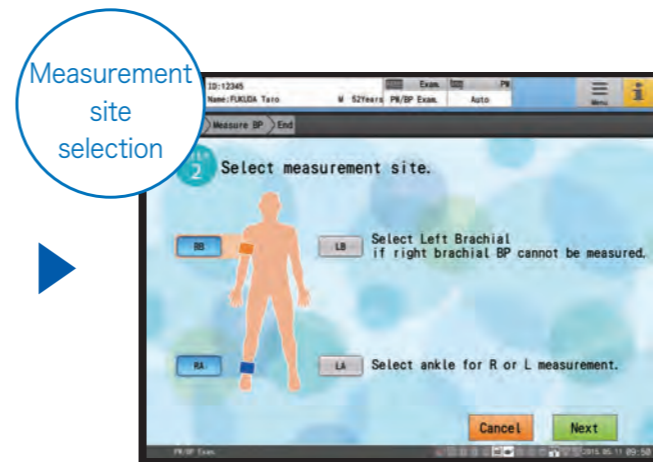
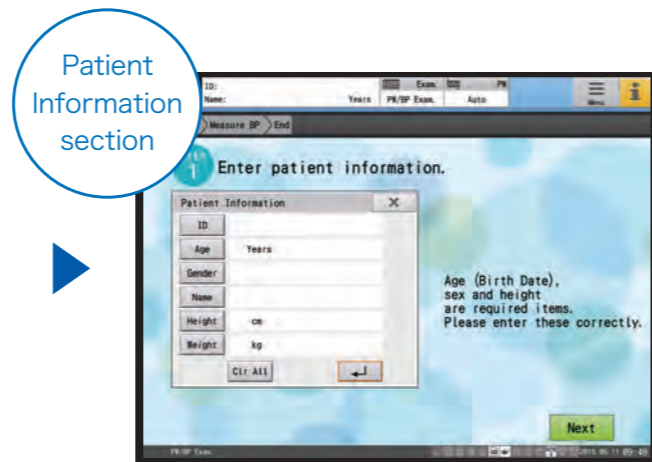


Greater Ease-of-Use with the On-Screen Guides

Even a first time user is able to perform an examination thanks to the on-screen guide. Step by step instructions guide you from the patient registration up to the end of the examination.



In simple mode, you can select either "Pulse wave examination" to evaluate arterial stiffness, or "Blood Pressure examination".



※ It is also possible to disable the on-screen guide and switch to standard mode.

Blood Pressure Examination

Multiple measurements with average value.

The examination conforms with the guidelines of AHA and ESH. When building an average from multiple measurements, you can select the measurements of best quality.

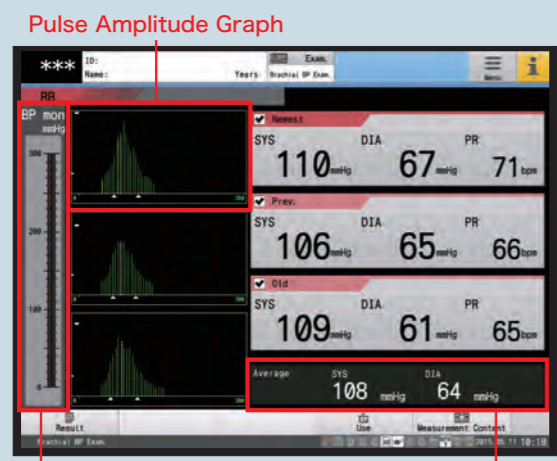


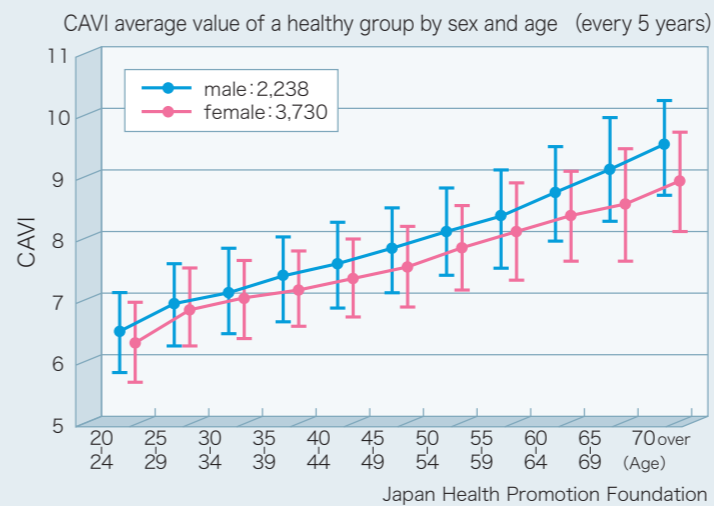
Image of a mercury blood pressure meter Average value



CAVI Examination

CAVI Cardio-Ankle Vascular Index

CAVI reflects the arterial stiffness from the heart to the ankle. Therefore it is a great indicator of Atherosclerosis. Also, a major advantage is its lesser dependence upon blood pressure changes at measurement time.

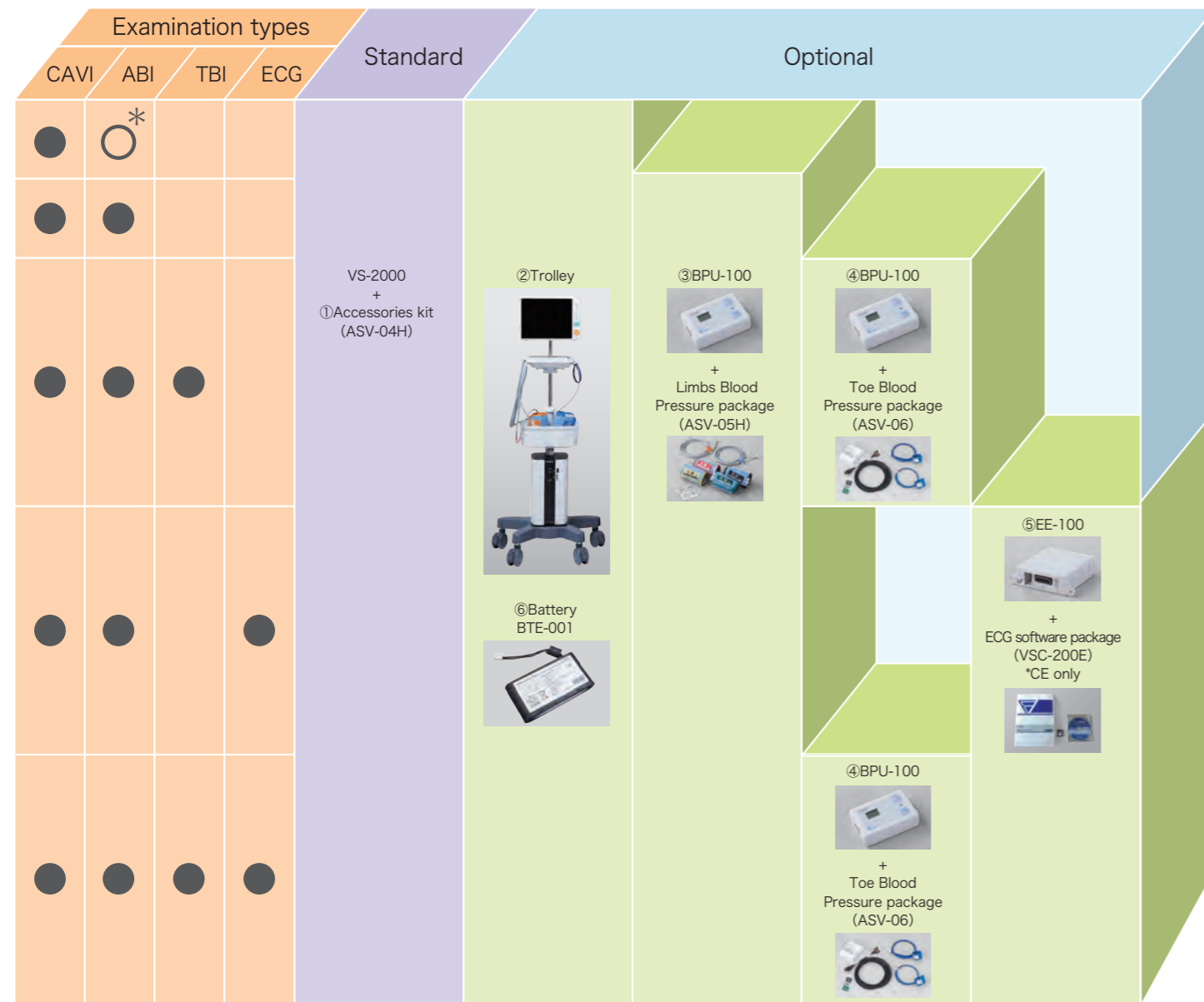


CAVI reference value

Display of the vascular age
Using the reference graph of healthy subjects as an indicator, it is possible to reflect the age of the arteries. Some versions of VaSera come with a vascular age graph.

Product Configurations with added options

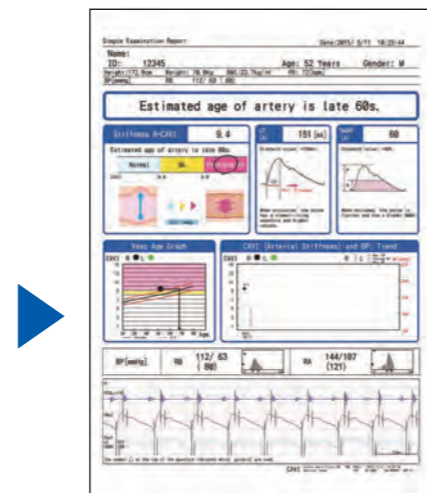
Add optional units as needed.



①Cuff (Arm/Ankle), hoses Package and PCG ③Unit to measure "2 channels" of PW and cuffs/hoses Package ④Unit to measure "2 channels" of PW with connection cable and toe cuffs Package ⑤12 Lead ECG amplifier, software license card, analysis reference CD Package In order to measure 12 lead ECG, you will need the following: patient cable (CP-104J) and electrodes (TE-43, TEV-01RG, TE-01). (In simple mode, you will not be able to measure ABI.) In standard mode, you can measure left and right blood pressure and ABI values. Save or export the data with our SD card or USB memory stick. ⑥Running on battery power→70minutes

Preview function

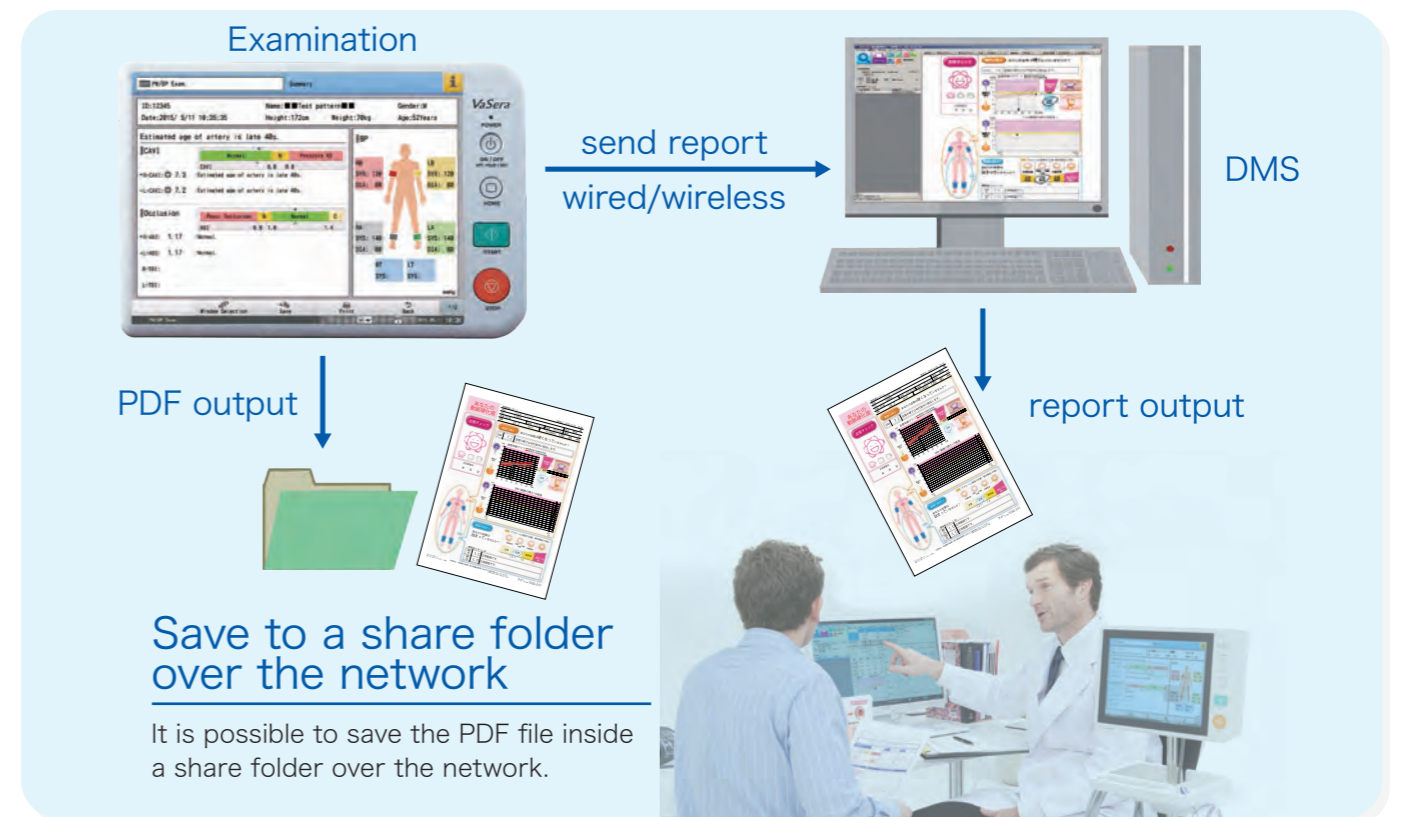
Before printing the report, you can preview it on a screen on the VS-2000.



Simple examination report

Network Integration

The VS-2000 comes with a standard LAN port and can communicate with a PC (not available in simple mode). VaSera enables easy management of its patient database. Additional software is also available for the review and handling of patient data.



Specifications

Display	LCD display	1024 x 768 dots (LED back light)
PCG	Frequency response	L filter: 50 Hz (-6 dB/oct) PWV filter: 165 - 280Hz within -3dB
NIBP (BPU-100)	Measuring range	0 - 300mmHg
	Scale interval	1 mmHg
	Pressure accuracy	±3mmHg
	Pressure detection	Semiconductor pressure sensor
	Zero balancing	Automatic balancing
	Measuring method	Oscillometric
	NIBP measuring range	20 - 280mmHg
	Inflation method	Automatic inflation by pump
	Deflating method	Automatic by electromagnetic valve
	Safety device	Over 330mmHg, or 10mmHg for longer than 130sec
ECG (EE-100)	Leads	Standard 12-lead ECG
	Standard sensitivity	10 mm/mV
	Sensitivity changes	1/4, 1/2, 1, 2, auto
	Differential and common-mode offset voltage (electrode-skin voltage)	±600mV or more
	Sine wave characteristics	0.05 - 150Hz within -3dB
	Low frequency characteristics (time constant)	3.2s or more
	CMRR	103dB or more
	Internal noise	<30 μVp-p
Filters	AC: 50 / 60Hz (-20dB max)	
	Muscle: 25 / 35Hz -3dB (-6dB/oct)	
	Drift: 0.25Hz/0.5Hz within -3dB	

SD card slot	SD Card Specification 2.0
LAN connector	IEEE 802.3u, 100BASE-TX (cable within 50m)
USB connector	USB2.0 Full Speed, 3 channel
Safety standard	IEC 60601-1: 1999
Class of protection against electric shock	Class I, internally-powered equipment
Type of protection against electric shock	NIBP input : Type CF (defibrillation-proof) PCG input : Type CF (defibrillation-proof) ECG input : Type CF (defibrillation-proof)
Power supply	100 - 240V AC 50/60Hz, 120 VA DC11.1V (Battery operation)

Dimension and Weight	Main Unit	178(W) x 181(D) x 315(H) mm 0.58(W) x 0.59(D) x 1.03(H) feet Approx. 4.5kg(10lbs) (w/out Battery)
	Display Unit	297(W) x 95.5(D) x 210(H) mm 0.97(W) x 0.31(D) x 0.69(H) feet Approx. 1.6kg(3.5lbs)
	BPU-100	90(W) x 151.1(D) x 43(H) mm 0.29(W) x 0.45(D) x 0.14(H) feet Approx. 0.4kg(0.9lbs)
Operating environments	Temperature 10-40°C(50-104°F) Humidity 25-95% (non-condensing)	
Storage environments	Temperature -10-+60°C(14-140°F) Humidity 10-95% (non-condensing)	