



Scanning speed*1 700 scans/second

Scanning distance*2 Approx. 8 m

For world-class* inventory-taking



Easy connection to smart devices. Supports Android™/iOS (MFi certified).



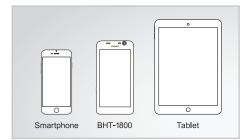
World-leading* scanning performance

Features our proprietary antenna that switches automatically between horizontal and vertical polarization. Achieves outstanding scanning speeds of 700 scans/second and scanning distance of up to approximately 8 m. Scans tags even when not all facing in the same direction. Dramatically improves working efficiency, enabling inventory jobs to be completed rapidly. *According to Denso Wave data as of September 2018.



Simple setup for easy transition between tasks

Easily connected by scanning QR Code® on SP1 unit with the device connected. Devices can be quickly paired using Bluetooth®, for easy transition between tasks. Even if the pairing is disconnected during work, the scanner includes automatic re-connection function and backup memory. The scanned data temporarily saved will be transmitted when the scanner is re-connected.



RFID using any smart device

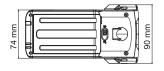
Supports both Android™ and iOS (MFi certified). All you need is a smartphone or tablet for RFID.

- Global support available in over 40 countries worldwide.
- High-quality product made in Japan.

Specifications

Model				SP1-QUBi		
	RFID functions	Supported RF tags		ISO/IEC 18000-63 Type C (EPCglobal Class 1 Gen 2) compatible tags		
		Frequency		916.8 to 920.8 MHz		
		Channel separation/Number of channels		200 kHz/6 ch		
		Transmission output		Up to 1 W		
		Modulation		PR-ASK		
Scanning unit		Scanning speed*1		700 scans/second		
		Scanning distance *2		Approx. 8 m		
		Output adjustment		10 dBm to 30 dBm		
	Scanner functions	Туре		Area sensor		
		Readable codes	2D Codes	QR Code, Micro QR Code, SQRC, PDF417, Micro PDF417, MaxiCode, DataMatrix (ECC200), GS1 DataBar Composite (EAN. UCC Composite)		
			1D Codes	EAN-13/-8 (JAN-13/-8), UPC-A/-E, UPC/EAN (with add-on), Interleaved 2 of 5, CODABAR (NW-7), CODE39, CODE93, CODE128, GS1-128 (EAN-128), GS1 DataBar (RSS)		
		Minimum resolution	2D Codes	0.167 mm		
			1D Codes	0.125 mm		
		PCS value		0.3 or greater		
		Elevation/tilt angle		±50°		
		Scan confirmation		Blue/red 2-color LED, buzzer		
Transmitter unit	Bluetooth®			Bluetooth Ver. 2.1 + EDR Standard Class 2		
	Profile			SPP		
	Cradle			USB		
Power	Main batt	ery		Lithium-ion battery		
supply	Operating	Standard battery		Approx. 3 hours		
	time *3	High-capacity battery		Approx. 6 hours		
Internal men	ternal memory			80,000 RFID tags, 1,000 barcodes		
	Operating temperature *4			-20 °C to + 55 °C		
Environmental performance	Protection class			IP54		
p	Drop-resistant strength *5			30 drops from 1.2 m onto concrete (5 times on each of 6 faces), 1.5 m		
EMC standard				VCCI ClassA		
Weight				Approx. 400 g (with standard battery); approx. 450 g (with high-capacity battery)		
#1: Scanning s	need is a re	ference value	and varies depending on	the actual operating environment *2; Scanning distance is a reference value an		

Dimensions







Main unit set contents

- Main unit
 Hand strap
- Operating guide

Software

Development/kitting/operating tools

- Google Android™ Studio
- Microsoft Visual Studio 2017
- Android™ OS application development support kit (SDK)*

*Can be downloaded free of charge from Denso Wave website (Qbdirect).

Product configuration

[Main unit set] SP1-QUBi

[Battery]

BT-SP1LA-C

(Standard lithium-ion battery + battery cover)

BT-SP1L-C

(High-capacity lithium-ion battery + battery cover)

[Communication unit] CU-SP1A (USB)

*1: Scanning speed is a reference value and varies depending on the actual operating environment. Communication distance varies depending on the actual actual tags. Evaluations are based on the Avery Dennison AD-229r6.*3: Reference values using Denso Wave conditions at room temperature. May vary depending on the actual operating conditions. *4:0°C to +40°C for charging. Operation between -10°C and -20°C and -20°C and -50°C.*5: Test figures at room temperature. Do not constitute guaranteed values.

Optional items

Model		el	Communication unit CU-SP1A	4-unit battery charger*1 CH-1804	4-unit main unit charger*2 CH-SP1L4	SP1 direct cable CBSP-US2000/4	BHT1800 charging cable *3 CBBHTUS500/C18-4A
Communication unit		unit	USB2.1 Full Speed compatible	-	-	USB2.1 Full Speed compatible	_
	Charging Charging time	Main unit charging	3.5/7 hours	_	3.5/7 hours	_	Depends on the connected supply current.
unit		Battery cartridge	4/8 hours	4/8 hours	_	_	_
Dimensions			158 x 110 x 85 mm	TBD	141 x 464 x 90 mm	2 m	50 cm
Power supply			AC adapter	AC adapter	AC adapter	Supply from connected device	Supply from connected device

Attachments	For BHT1800	For self-modification	
Attacriments	EA-SP1-A1800	EA-SP1-AS	
Other	Waist case	Shoulder strap *4	

*1: For use with both standard/high-capacity batteries. *2: Does not include smart device charging function. \$3: Does not support USB interface, *4: Attachments cannot be attached/detached from SP1 with shoulder strap attached.

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For more information, please visit our website http://www.denso-wave.com/en/adcd/



• Appearance and specifications are subject to change without prior notice. • Description stated in this catalog is as of October 2018.