





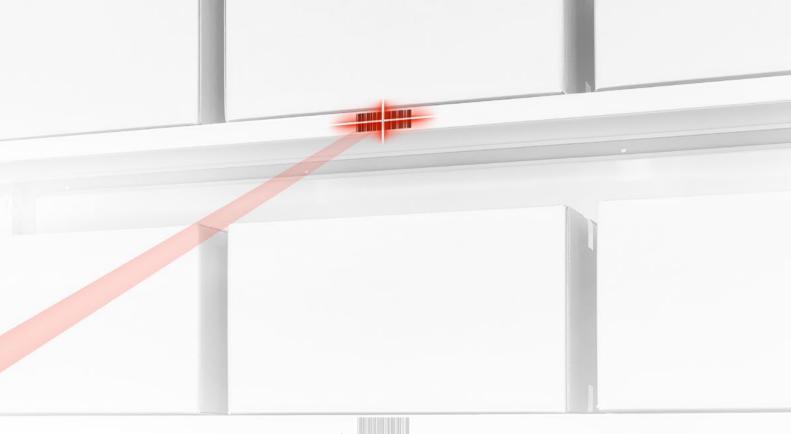
Instant Reading for Near and Far Codes

High-Speed Autofocus Handheld Mobile Computer

Impressive Reading Ability for Significant Improvements in Daily Work Efficiency

The drastically improved reading performance is provided by an autofocus function and a triple-core CPU in addition to a high-performance decoding algorithm.





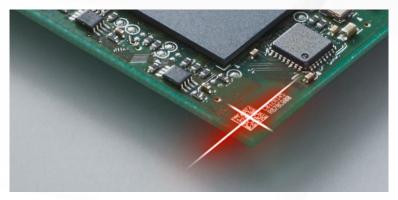
Reading speed

Instant reading simply by holding over a code



Reading resolution

Easy reading of extremely minute codes



*Reading distances as short as 25 mm for barcodes with a narrow bar width of 0.25 mm, or as long as 2300 mm for barcodes with a narrow bar width of 1.0 mm, are possible.

High-Speed Autofocusing for Improved Efficiency with Various Reading

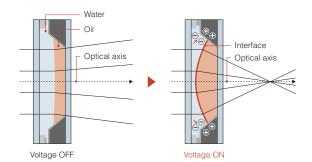


High-Speed Autofocus Function [CAMERATYPE]

Instantly read codes whether they are near or far away.

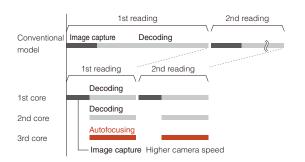
Liquid Lens

When voltage is applied to the electrodes on the liquid lens, the interface between the water and the oil changes. Changing the refraction makes it possible to adjust focus instantly.



Triple-Core CPU

Decoding is performed simultaneously by two cores, allowing for twice the reading speed compared with a conventional model. Meanwhile, autofocusing is performed in parallel with the third core, eliminating focus adjustment times for reading.



Instant Reading of Any Challenging Codes [CAMERATYPE]

Reading is easy even at an angle or for dirty/scratched codes, resulting in fewer interruptions.

Geometric Correction Technology

Distorted codes, such as those on cylinders and other round surfaces, or those read from an angle, are corrected using the geometric correction technology.



Reading from an angle



Geometric correction

Contrast Algorithm for Local Concentration (CALC)

Our algorithm divides a code in to small pieces to perform binary processing using thresholds specified for each division. This enables accurate black/white classification without being affected by uneven print density.









Threshold setting









Plastic wrapping



Wrinkles

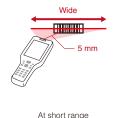




Distortion

Automatic Reading Distance Adjustment Mode [LASERTYPE]

With this mode, the laser width is automatically adjusted according to the distance from the barcode. At long range, the laser becomes narrower, while at short range, the laser becomes wider. This provides for a wide reading range.





Instant Reading of Non-Barcode Dates and Text



Instant Reading of Any Text

Our OCR (Optical Character Recognition) technology is capable of reading various characters regardless of the font. This means operations can be improved even if the barcode is not regularly used.

Various Fonts

Various Date Formats

ABC123 ABC123

2020.3.15

20/3/15

ABC123 ABC123

3/15/2020

MARCH/15/2020

OCR Tool for Utilising Recognised Characters

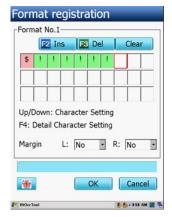
This tool improves not only reading but also operability by preventing reading failures and misreadings.

Date Reading and I/O Function



- Configure date output patterns
- Work with international date formats
- Specify date recognition ranges

Format Registration Function



- Register up to 50 formats
- Register specific character types
- Register a format just by reading a character string

Alert Function



- Show characters in a red outline when an identification level is low
- Modify the character string manually
- Display the reasons of an alert

OCR Licence to Meet Character Recognition Needs [BT-OCR1]

The OCR licence (BT-OCR1) enables the Character Recognition functions of BT-W350W250 devices. This feature can also be added as needed following the purchase of a main unit.





Block-floating Structure

The impact-resistant structure can reduce both damages caused by drops and accumulated by long-term use, resulting in a reduced frequency of failure.



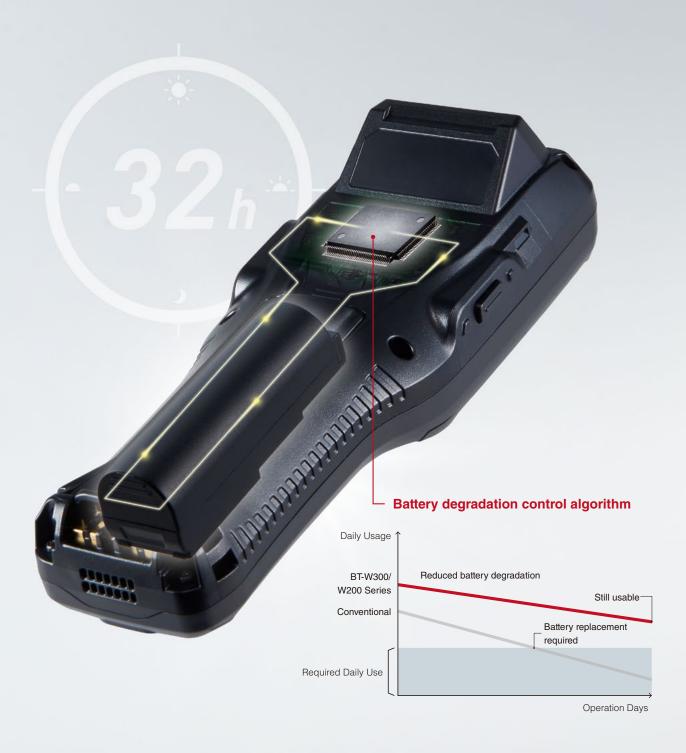
Key components such as the display, scanner, and main PCB are incorporated in a block structure with the chassis and the cushioning material. In addition, the block is not firmly fixed, reducing the energy of impacts being transmitted to the components.

Five-layer Structure for Increased Protection

The LCD screen is often subjected to shock and stressed by touch operation in daily use. The five-layer structure provides thorough protection against frequent failures associated with the LCD components.



Battery Degradation Control for Longer Use and Reduced Battery Replacement



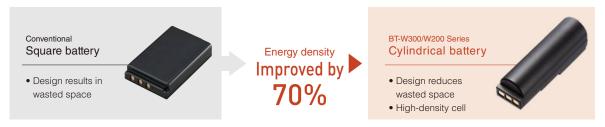
High-Capacity Battery for 32 Hours with Triple-Core CPU

The battery allows for long-term operation for worry-free use throughout the day, eliminating the need to fret about having to change the battery.

Battery Life Comparison



Advantages of Cylindrical Battery



Battery Degradation Control Algorithm for Extended Battery Life

The battery degradation control algorithm improves the battery life drastically, resulting in less-frequent battery replacement.

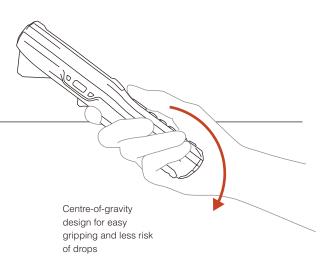
Factors of Battery Degradation and Degradation Control Algorithm Countermeasures

Battery Status		Factors of Degradation	Battery degradation control algorithm	
Full charge		A full charge is maintained for an extended period	Stopping charging at 90% (before a full charge)	
Quick charging		Charging is performed quickly	Slow charging	
Deep discharging	= = =	The battery is used to 0% and left for a long time	Power-off before complete discharge	
Frequent charging	<u>*</u>	The battery is charged at a high frequency	Charge starts when the threshold is reached	



Optimised Centre-Of-Gravity Design for Minimised Strain and Easier Operability

The centre-of-gravity design directs the weight of the device naturally into your hand. This helps to reduce the burden on workers by creating a more lightweight sensation and reducing the risk of drops.



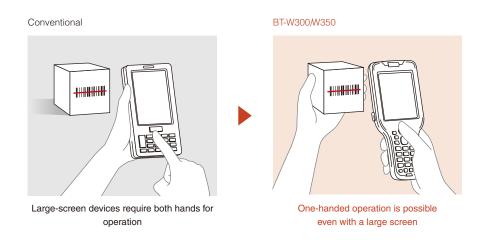
Comfortable One-Handed Design with High-Operability Key Layout

All keys are placed within the thumb's reach for simple one-handed operation. Hard keys have been organised and spaced to ensure operability even while wearing protection gloves.



All the Information of a Large-Screen PDA in a One-Handed Grip

The optimal centre-of-gravity design and arrangement of keys result in outstanding one-handed operability with the large screen. The other hand is free for other tasks, resulting in dramatically increased work efficiency.



Remote Management of Devices for Instant Support





Device status information can be collected from each remote site to monitor operating conditions centrally. Their actual status can clearly be checked at the head office.

Remote Control Function

Devices can be controlled from a remote location with transferring files as needed. From this, it is possible to support and troubleshoot a device independent of its location.

Log Collection for Failure Analysis

In addition to basic communication logs and operation logs, operation history and screen captures can be collected. This leads to prompt determination of failure causes and significantly reduced response man hours.

Main Logs

System log/Communication packet log/Application log/Accumulated log/ Operation log

Operation log



Operation screens, touch positions and key presses are automatically recorded.

Dedicated to adding value for our customers

Direct Approach

Our technically trained sales engineers have extensive product knowledge along with application and industry experience. Customers can expect on-site support to quickly solve applications saving invaluable time.

KEYENCE Direct Sales System



Fast Delivery

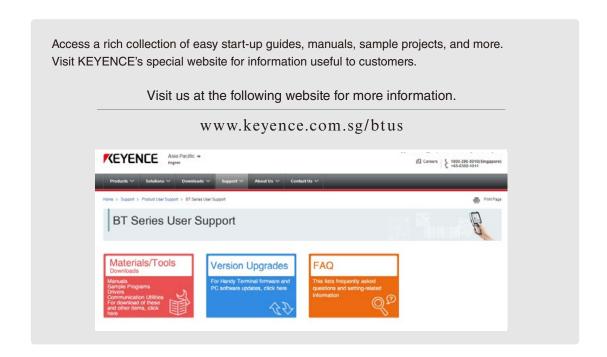
KEYENCE has established a fast delivery system to deliver required products on demand. Products are shipped from warehouse centres in Singapore, Malaysia, India, Thailand, China, Taiwan, South Korea, U.S., Mexico, Canada, Brazil, the U.K., Germany, France, Belgium, Italy and Japan as well as many other locations worldwide.



Comprehensive Support

KEYENCE supports customers with extensive on-site manufacturing and automation knowledge. This includes comprehensive support from model selection to line operation with on-site operating instructions and precautions after product adoption.





Applicable to all sites, from distribution to logistics and to manufacturing



Receiving inspection/acceptance process



Order placement



Inventory management/clearance



Price check



Location management



Gas cylinder delivery/container management



Process management/results



Malpractice check/vital sign entry



Verify correct tip reel replacement

Device



Model	BT-W300		
Туре	Laser		
Weight	Approx. 259 g		

Model	BT-W350	
Туре	Camera	
Weight	Approx. 256 g	

Features

- Large, 3.5-inch high-visibility screen
- Excellent one-handed operability



Model	BT-W200		
Туре	Laser		
Weight	Approx. 222 g		

Model	BT-W250		
Туре	Camera		
Weight	Approx. 217 g		

Features

- Highly durable design with drop resistance up to 3.0 m
- 32 hours of continuous operation

With the OCR licence (BT-OCR1), character recognition functionality can be enabled on BT-W350/W250.

Peripheral Equipment

	Applicable models	Model	Model Name
	Common	BT-B5	Rechargeable Battery Pack
	Common	OP-88266	Hand Strap
	Common	BT-WUC8U (AC adapter and USB cable included)	Communication and Charging Unit, USB Type
	Common	BT-WUC8L (AC adapter included)	Communication and Charging Unit, LAN Type
	Common	BT-WUC81 (AC adapter included)	Standalone Charging Unit
	Common	BT-WUC84 (AC adapter included)	4-in-Line Charging Unit
app)	Common	BT-WCG14 (AC adapter included)	4-in-Line Charging Unit for Rechargeable Batteries
	Common	OP-99xx2 *	AC cable
	Common	BT-WHD1	Program Development Kit
	Common	BT-WHM1	Built-In Operation Management Software (BT Management Tool)
05-C1	BT-W350/250	BT-OCR1	OCR licence

^{*} The AC cable model varies depending on the country. For details, contact a KEYENCE sales representative.

	Applicable models	Model	Model Name	
	BT-W300/350	OP-88265	Protector	
\$	BT-W200/250	OP-88264		
	BT-W300/350		Coffee	
	BT-W200/250	OP-88267	Soft case	
	Common	OP-88269 Belt Pouch	Belt Pouch	
	Common	OP-87164	Belt for Pouch	
4	BT-W300/350	OP-88271	Stylus	
1	BT-W200/250	OP-88270	(attachment included)	
	Common	OP-88272	Pack of 5 styluses	
0	Common	OP-87163	Neck Strap	
11	Common	OP-87745 (1 strap is included with the terminal)	Wrist Strap (M) , 5-strap Set	

Specifications

Model				BT-W300G/W300GM/W300GI	BT-W350G/W350GM/W350GI	BT-W200G/W200GM/W200GI	BT-W250G/W250GM/W250GI	
Туре		Laser type	Camera type	Laser type	Camera type			
	CPU			ARM Cortex® Triple Core				
Controller	OS			Microsoft® Windows® Embedded Compact 7				
Main memory	RAM			512 MB (disk area: 32 MB)				
Main memory	ROM				512 MB (disk area: 2	22 MB), flash-ROM		
	Display method		thod	3.5-inch transmissive TF	T colour LCD, VA method	2.7-inch transmissive TF		
Display			(number of dots)	480 (W) × 6-		240 (W) × 32	0 (H) (QVGA)	
	LCD	Number of	display colours		65,			
		Font		MS P Gothic, MS UI Gothic, MS Gothic, Segoe UI, Courier New, Symbol, Tahoma, Times New Roman, Wingdings * Simsun and Nsimsun need to be installed			Vingdings	
		Backlight		Sinisun and visinisun need to be instanted High-intensity white LED				
	Operation conf		n					
	Touch panel			3-colour LED (red, green, blue, yellow, cyan, magenta, white) Analogue resistive-film method (reinforced glass specifications)				
		odon panor		Analogue resistive-tilm method (reimorced glass specifications) Set of arrow keys × 1 (4 directions), trigger keys × 3 (centre × 1, side × 2),				
Operations	Hand Iron	Hard keys Type			function keys x 8 (F1 key, F2 key, F3 key, F4	key, Fn key, Tab key, character key, SFT key),		
	naru keys			data input keys × 14 (0 to 9 keys, ENT key, clear key, minus key, symbol key), power key × 1				
	Backlight				LED (o	range)		
				Visible semiconductor laser (650 nm),		Visible semiconductor laser (650 nm),		
		Reading lig	pht source	output: 1.0 mW, Class 2 laser product	High-intensity white LED	output: 1.0 mW, Class 2 laser product	High-intensity white LED	
				(IEC60825-1)		(IEC60825-1)		
					Visible semiconductor laser (657 nm),		Visible semiconductor laser (657 nm),	
		Pointer ligi	nt source	-	output: 1.0 mW,	-	output: 1.0 mW,	
					Class 2 laser product (IEC60825-1)		Class 2 laser product (IEC60825-1)	
		Scanning r	ate	100 scans/second	-	100 scans/second	-	
		Minimum	resolution	0.127 mm	2D code: 0.127 mm Barcode: 0.076 mm	0.127 mm	2D code: 0.127 mm Barcode: 0.076 mm	
Optical					30 to 840 mm		30 to 840 mm	
	characteristics				(CODE39 narrow bar width: 0.508 mm)		(CODE39 narrow bar width: 0.508 mm)	
				10 to 1250 mm	25 to 450 mm	10 to 1250 mm	25 to 450 mm	
Scanner'1		Reading di	stance	(narrow bar width: 0.508 mm) 5 to 630 mm	(CODE39 narrow bar width: 0.254 mm) 30 to 480 mm	(narrow bar width: 0.508 mm) 5 to 630 mm	(CODE39 narrow bar width: 0.254 mm) 30 to 480 mm	
				(narrow bar width: 0.25 mm)	(QR cell size: 0.508 mm)	(narrow bar width: 0.25 mm)	(QR cell size: 0.508 mm)	
					25 to 280 mm (QR cell size: 0.254 mm)		25 to 280 mm	
		Reading la	hal midih/		(un cell size: 0.254 IIIII)		(QR cell size: 0.254 mm)	
		view range		-	124 x 76 mm (reading distance: 180 mm)	-	124 x 76 mm (reading distance: 180 mm)	
		PCS		0.45 or more		0.45 or more		
		1 00		(Reflectance of white part: 70% or more)	_	(Reflectance of white part: 70% or more)	_	
				JAN/EAN/UPC (add-on code support),	JAN/EAN/UPC (add-on code support), CODE128, GS1-128,	JAN/EAN/UPC (add-on code support),	JAN/EAN/UPC (add-on code support), CODE128, GS1-128,	
				CODE128, GS1-128,	CODE39, NW-7(Codabar),	CODE128, GS1-128,	CODE39, NW-7(Codabar),	
	Supported cod	es		CODE39, NW-7 (Codabar), CODE93, ITF,	CODE93, ITF, COOP 20f5,	CODE39, NW-7 (Codabar), CODE93, ITF,	CODE93, ITF, COOP 2of5,	
				2of5 (Industrial 2of5),	2of5 (Industrial 2of5), QR, Micro QR, DataMatrix (ECC200),	2of5 (Industrial 2of5),	2of5 (Industrial 2of5), QR, Micro QR, DataMatrix (ECC200),	
				COOP 20f5, GS1 DataBar	PDF417, GS1 DataBar, Composite	COOP 2of5, GS1 DataBar	PDF417, GS1 DataBar, Composite	
		Wireless s	tandards		IEEE802.	1a/b/g/n		
		Radio freq	uencv	BT-W300G/W30	BT-W300G/W300GM/W350G/W350GM/W200G/W200GM/W250G/W250GM: 2.4 GHz (b,g,n:1 to 13ch), 5.2 GHz, 5.3 GHz(a/n)		Hz, 5.3 GHz(a/n)	
	Wireless LAN					00GI/W250GI: 2.4 GHz (b,g,n:1 to 13ch)		
Wireless		Security m	athode		Security: WEP (64/1 WPA encryption n			
communication		Occurry III	ottious		Authorisation method: PSK/E	AP-TLS/PEAP-MSCHAP-V2		
		Wireless s	tandards		Bluetooth®	V2.1 + EDR		
	Bluetooth®	Supported			SPP, PAN (PANU), FTP (Client)	, HSP (AG), HID (Host/Device)		
		Communic	ation distance	SPP, PAN (PANU), FTP (Client), HSP (AG), HID (Host/Device) Approx. 10 m (line-of-sight)				
External	Supported med	dia			microSD or mi	croSD (SDHC)		
recording media	Supported cap	acity			32 GB	max.		
		Туре			Dedicated lithium	ion battery pack		
		Capacity		3250 mAh		mAh		
	Main hattan	Continuous	Charge mode 1	Арргох.	19 hours	Approx.	28 hours	
Power	Main battery	usage	Charge mode 2	Арргох.	22 hours	Approx.	32 hours	
supply		time*2	Charge mode 3	Арргох.	19 hours	Approx.	28 hours	
		Charging t	ime		Approx. 8 hours (n	ormal temperature)		
		ondrying t				battery: approx. 1 month*3		
	Backup	Clock			Built-in lithium secondary	buttory, approx. I month	* **	
	Backup battery				Electric double-layer capa			
		Clock				citor: approx. 1 minutes ⁻³		
Others	battery	Clock RAM data			Electric double-layer capa	citor: approx. 1 minutes ⁻³ Volume: 3 levels		
Others	Buzzer Vibration funct Calendar/clock	Clock RAM data		Automatic calendar (y	Electric double-layer capa Scale: 16 levels, Avaii ear, month, day, hour, minute, second; up to yea	citor: approx. 1 minutes ⁻³ Volume: 3 levels able ur 2079), accurate within 80 seconds per month	(normal temperature)	
Others	battery Buzzer Vibration funct Calendar/clock Enclosure ratin	Clock RAM data			Electric double-layer cape Scale: 16 levels, Avaii ear, month, day, hour, minute, second; up to yea IP	citor: approx. 1 minutes" ³ Volume: 3 levels able ur 2079), accurate within 80 seconds per month 34		
Others	Buzzer Vibration funct Calendar/clock Enclosure ratin Drop resistanc	Clock RAM data ion		Automatic calendar (y Onto concrete from 2.0 m (from 3.5 m with	Electric double-layer capa Scale: 16 levels, Avail ear, month, day, hour, minute, second; up to yea IP protector); Up to 20000 impacts from 30 cm	citor: approx. 1 minutes ⁻³ Volume: 3 levels able ir 2079), accurate within 80 seconds per month 34 Onto concrete from 3.0 m (from 4.0 m with)	(normal lemperature) protector); Up to 20000 impacts from 30 cm	
Environmental	battery Buzzer Vibration funct Calendar/clock Enclosure ratin Drop resistanc Ambient opera	Clock RAM data ion g e'4 ting tempera			Electric double-layer cape Scale: 16 levels, Avai ear, month, day, hour, minute, second; up to yes IP protector); Up to 20000 impacts from 30 cm -20 to +50°C	citor: approx. 1 minutes ⁻³ Volume: 3 levels able r 2079), accurate within 80 seconds per month 4 Onto concrete from 3.0 m (from 4.0 m with 1 (no freezing)		
Environmental	battery Buzzer Vibration funct Calendar/clock Enclosure ratin Drop resistanc Ambient opera Ambient opera	Clock RAM data ion g e'4 ting temperating humidit	у		Electric double-layer cape Scale: 16 levels, Avail ear, month, day, hour, minute, second; up to yer per color); Up to 20000 impacts from 30 cm -20 to +50°C 20 to 85% RH (r	citor: approx. 1 minutes*3 Volume: 3 levels able r 2079), accurate within 80 seconds per month 34 Onto concrete from 3.0 m (from 4.0 m with) (no freezing) o condensation)		
Environmental	battery Buzzer Vibration funct Calendar/clock Enclosure ratin Drop resistanc Ambient opera Ambient storag	Clock RAM data ion g e'4 ting temperating humidit	у		Electric double-layer caps Scale: 16 levels, Avail ear, month, day, hour, minute, second; up to yev ear, month; day, hour, minute, second; day, hour, minute, second; day, hour, minute,	citor: approx. 1 minutes*3 Volume: 3 levels able r 2079), accurate within 80 seconds per month 34 Onto concrete from 3.0 m (from 4.0 m with) (no freezing) o condensation) (no freezing)		
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Environmental resistance	battery Buzzer Vibration funct Calendar/clock Enclosure ratin Drop resistanc Ambient opera Ambient storag	Clock RAM data ion g e'4 ting temperating humidit	у	Onto concrete from 2.0 m (from 3.5 m with	Electric double-layer caps Scale: 16 levels, Avail ear, month, day, hour, minute, second; up to yes protector); Up to 20000 impacts from 30 cm -20 to 85% RH (r	citor: approx. 1 minutes*3 Volume: 3 levels able 12 '2079), accurate within 80 seconds per month 34 Onto concrete from 3.0 m (from 4.0 m with) (no freezing) 10 condensation) (no freezing) 10 condensation) 11 class A	orotector); Up to 20000 impacts from 30 cm	
Environmental resistance	battery Buzzer Vibration funct Calendar/clock Enclosure ratin Drop resistanc Ambient opera Ambient storag	Clock RAM data ion g e'4 ting temperating humidit	у	Onto concrete from 2.0 m (from 3.5 m with	Electric double-layer cape Scale: 16 levels, Avail ear, month, day, hour, minute, second; up to yet IP protector); Up to 20000 impacts from 30 cm -20 to +50°C 20 to 85% RH (r -20 to +60°C 20 to 85% RH (r VCCI (citor: approx. 1 minutes ⁻³ Volume: 3 levels able r 2079), accurate within 80 seconds per month 34 Onto concrete from 3.0 m (from 4.0 m with) (no freezing) o condensation) (no freezing) o condensation) class A 173 × 61.6 × 43 (30.3) mm	protector); Up to 20000 impacts from 30 cm $$ 173 \times 61.6 \times 42 (30.3) mm	
Others Environmental resistance EMI Dimensions	battery Buzzer Vibration funct Calendar/clock Enclosure ratin Drop resistanc Ambient opera Ambient storag	Clock RAM data ion g e'4 ting temperating humidit	у	Onto concrete from 2.0 m (from 3.5 m with 193 × 75.2 × 3 (The value in parenthesi	Electric double-layer caps Scale: 16 levels, Avail ear, month, day, hour, minute, second; up to yee ear, month, day, hour, minute, second; up to yee ear, month, day, hour, minute, second; up to yee protector); Up to 20000 impacts from 30 cm -20 to +50°C 20 to 85% RH (r -20 to -60°C 20 to 85% RH (r VCCI C	citor: approx. 1 minutes*3 Volume: 3 levels able 1r 2079), accurate within 80 seconds per month 34 Onto concrete from 3.0 m (from 4.0 m with) (no freezing) 0 condensation) (no freezing) 0 condensation) condensation 173 × 61.6 × 43 (30.3) mm (The value in parenthesis is the grip dimension.)	protector); Up to 20000 impacts from 30 cm 30.000 mpacts 30.0000 mpacts 30.0000 mpacts 30.0000 mpacts 30.0000 mpacts 30.0000 mpacts	
Environmental resistance EMI	battery Buzzer Vibration funct Calendar/clock Enclosure ratin Drop resistanc Ambient opera Ambient storag	Clock RAM data ion g e'4 ting temperating humidit	у	Onto concrete from 2.0 m (from 3.5 m with	Electric double-layer cape Scale: 16 levels, Avail ear, month, day, hour, minute, second; up to yet IP protector); Up to 20000 impacts from 30 cm -20 to +50°C 20 to 85% RH (r -20 to +60°C 20 to 85% RH (r VCCI (citor: approx. 1 minutes ⁻³ Volume: 3 levels able r 2079), accurate within 80 seconds per month 34 Onto concrete from 3.0 m (from 4.0 m with) (no freezing) o condensation) (no freezing) o condensation) class A 173 × 61.6 × 43 (30.3) mm	protector); Up to 20000 impacts from 30 cm	

^{*1} Activation of a separate licence is required to enable character recognition. Refer to the manual for character recognition specifications. *2 This is the continuous usage time with the operation confirmation LED and vibration function turned off, with the buzzer turned on (with low volume), with the backlight turned on (with low luminance), at normal temperature, and when barcode reading is performed and round trip wireless communication is made once per 20 seconds. *3 When the main battery is not attached or has no remaining charge. *4 This is a test value. The value is not guaranteed. *5 In a low-temperature environment, the lithium ion battery's continuous usage time decreases. Be sure to check operations before using the product.

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