

BT-W SERIES GENERAL CATALOGUE

Global Model Edition



BT-W 100 SERIES



BT-W 80 SERIES



BT-W 70 SERIES A common platform is used so that you can choose a handheld terminal according to your operating environment while using a single application.





Lightweight

BT-W 70 SERIES



7_{PORE} 8_{TUV} 9₄₇₀









Various system configurations are possible according to each operating environment and development method.

For Web application users

Web applications

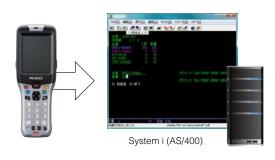
You can browse Web pages using the Internet Explorer[®]. Existing Web applications can be used on this handheld terminal.



For System i (AS/400) users

Terminal emulator

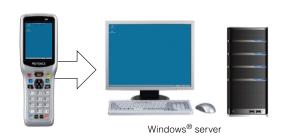
You can view a System i (AS/400) screen on this handheld terminal in real time and apply input data directly to the screen.



For users who want to use their PC applications also on a handheld terminal

Terminal service

Can view PC applications via terminal service connection. Data in your PC can also be used, including documents, images, and Excel/PDF files.



For users who want to simplify input operation



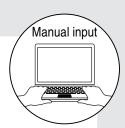
Embedded application (batch operation)

You can create an application using Visual Studio® 2008 Professional and send a text file via a communication unit.



Direct input makes conventional manual data entry unnecessary!

For users who want to input data in real time



Embedded application (wireless operation)

You can create an application using Visual Studio[®] 2008 Professional and access your database through real-time communication.



Real-time communication makes manual Data input operation on your PC unnecessary!

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	h Panela/LCD/Keys······P.8 terface with superb operability
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Supreme reading performance

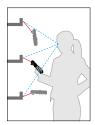
BT-W100/W80/W70 SERIES



Sharp reading performance

These Series use a radiation angle of 30 degrees, which is ideal for scanning codes in front of you, such as store shelf labels. You can check the radiated position over the terminal while watching the screen.



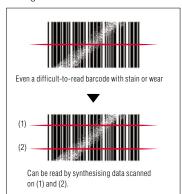


Supreme reading performance allows you to identify the radiated position intuitively.

BT-W100/W80/W70 SERIES

Barcode synthesising function

A newly equipped barcode synthesising function allows you to read even damaged barcodes.

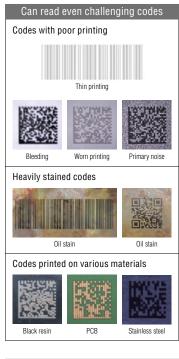


BT-W155/W85/W75 SERIES



Resolves the difficulty of challenging codes and shake

The redesigned decoding engine greatly improves reading performance for challenging codes and shake resistance. Work takt time can be reduced by capturing codes more quickly.







Ergonomic designed with optimum operability in mind

BT-W100/W80/W70 SERIES

Natural Ergonomic designed fits right in your hand

An integrated design of grip and rechargeable battery has resulted in a rounded, easy-to-hold form. This ultimate user-friendliness ensures comfort even over long period of operation.



BT-W100/W80/W70 SERIES

Utmost stability with optimum centre-of-gravity design

The terminal is designed not to tilt and fall forward when held with the index finger slightly forward of the centre of gravity. In this way, the terminal is maintained in optimum posture and balance.



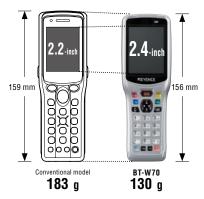
The design, that the centre of gravity naturally tilts in the direction of the grip, ensures excellent stability.

BT-W70 SERIES

An ultralight body of 130 g with a built-in 2.4-inch LCD

30%

KEYENCE's metal replacement design has succeeded in making components smaller and lighter. Even with a built-in 2.4-inch LCD, an ultralight body of 130 g has been achieved.



* BT-W70 (with BT-WB2 attached)

Interoperability



BT-W100/W80 SERIES

Built-in touch panel

A built-in touch panel ensures intuitive operation for everyone.



BT-W100/W80 SERIES

Built-in key backlight

The built-in key backlight ensures superb visibility even in a dark place.





BT-W100/W80/W70 SERIES

Use of work gloves also considered

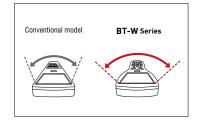
Key pitches and positions have been designed so that operators can press each key accurately even in a plant or warehouse. Smooth operation is ensured even when you wear work gloves.



BT-W100/W80 SERIES

High intensity & contrast + wide viewing angle

Transmissive LCD panel and high reflection film are used to reduce power consumption by the backlight. Visibility is ensured no matter where the terminal is used.



BT-W100/W80/W70 SERIES

Superb operability with your thumb alone

Frequently used keys are collected at the centre while function keys are located near the screen. Rounded key tops also provide extremely comfortable pressing.



BT-W100 SERIES

Automatic brightness control function

Based on the ambient brightness, the backlight is adjusted automatically to the optimum intensity, leading to improved visibility and battery efficiency.





KEYENCE's view of "durability"

Not susceptible even to unexpected accidents

Resistance to impacts of drops Stable even under long-term operation

Resistance to accumulated damages Users-expected

"Absolute Durability" = RELIABLE!



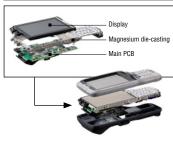
BT-W100/W80/W70 SERIES

Structure resistant to both impacts of drops from a height and repeated damages

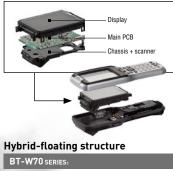
A construction that does not fix but intentionally floats key components and chassis reduces the effect of impacts on those parts effectively.

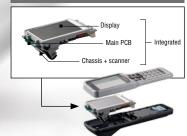
Chassis-floating structure

BT-W100 SERIES:



Block-floating structure





BT-W100/W80/W70 SERIES

LCD also designed with durability in mind

The LCD screen is often subject to shock and under stress by "touch operation" even with daily usage. To ensure a long-term operation, KEYENCE has placed emphasis also on the durability of the LCD.

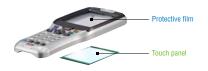
BT-W100 SERIES



Protects the surface of the touch panel (improves the sliding resistance by 2.5 times)

Crack and electrode damage-resistant (5 times stronger than general glass)

Absorbs shock (reduces shock to the LCD by 50%)



Protects the surface of the touch panel (improves the sliding resistance by 2.5 times)

Crack and electrode damage-resistant (12 times stronger than general glass)



Durable and break-resistance panel made of polycarbonate

Enclosure rating

IP64 BT-W80 IP54 BT-W100/W70

• Operating temperature

-20°C to +50°C BT-W80/W70 -5°C to +50°C BT-W100



Outperform rechargeable batteries support extended usage cycle and service life surpass conventional model



Continuous usage time

BT-W100

 22_{hours}

BT-W80

28 hours

BT-W70

BT-W100/W80/W70 SERIES

Different batteries available according to models



BT-W100/W80 Uses a cylindrical battery

density

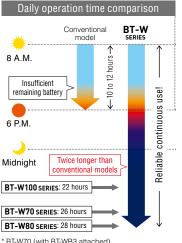


Can be used with two types with high capacitance of batteries, standard and large capacity

BT-W100/W80/W70 SERIES

Reliable endurance even under long time operation

KEYENCE's proprietary power-saving control system with supreme operating efficiency ensures comfortable operation all day without reduction in CPU processing speed.



* BT-W70 (with BT-WB3 attached)

BT-W100/W80/W70 SERIES

Extended battery life reduces running costs

A built-in algorithm analyses the cause of battery degradation thoroughly and controls it effectively. Running costs can be reduced with greatly extended battery replacement cycle.

Operation examples that may lead to battery degradation

Kept in completely charged condition

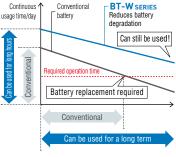


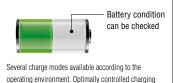
Charging

Frequently repeated charging and discharging

Charging after a Charging after a Charging after a

Continuous usage time and lifetime Continuous 1 BT-W SERIES Conventional





reduces battery degradation.

^{*} BT-W70 (with BT-WB3 attached)

Steady reliable operation system



BT-W100/W80/W70 SERIES

Extended memory lifespan

A dedicated file system based on our unique design ensures a high reliability. This system can be used in the same way as the Windows $\!^{\tiny{\circledR}}\!$ standard "FAT file system", increasing system reliability

Item	BT-W Series-dedicated file system
Rewritable life	Long life thanks to wear leveling (access count leveling)
Immunity to instantaneous power cut	Protects the file system from instantaneous power cut that may occur at any time
Access and space efficiency	Efficient usage thanks to optimisation according to sizes of the ROM blocks and pages
Error handling	Corrects access errors specific to large-capacity memory

^{*} Can be operated completely in the same way as the FAT file system from user applications.

BT-W100/W80/W70 SERIES

Data loss prevention -Protection & Recovery

These Series have a function that protects internal data when the power is instantaneously cut off. Even in case of sudden power cutoff, including when the battery comes off due to impact of drop, power supply is ensured from the internal backup power source. Your system and data are protected completely through immediate backup and recovery.

Scenarios where the power is instantaneously cut off

Unexpected accidents such

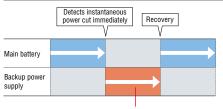


The battery is removed while

Even if the power is

suddenly shut off Safely protects system and data

How the terminal is protected from instantaneous power cut



Protects your valuable data through instantaneous switching to the backup power supply

Handling at instantaneous power cut

If the power supply from the main battery is cut off, the system, including data, is protected immediately and goes to backup mode. In this mode, the power is supplied from the internal backup power system. (Plays a role of "UPS")

Recovery

When the power supply from the main battery is resumed in backup mode, the system is started with the status restored to that prior to the instantaneous power cut.

^{*} microSD cards and USB memories use the FAT file system

Easy system migration with high compatibility

Common platform

BT-W100/W80/W70 SERIES

Built-in high-speed CPU and high-performance OS

High speed, stress-free operation is ensured for drawing as well as data writing and reading.

BT-W100/W80/W70 SERIES

Built-in large-capacity flash memory (PureNAND)

A PureNAND memory is used as the internal storage to achieve both large capacity and quick access. Reliability is also ensured with KEYENCE's original NAND flash control.

Common user interface

BT-W100/W80/W70 SERIES

Consistent key arrangement

Keys are arranged consistently among different series. Similar user interfaces provide application affinity and unified operation procedures.

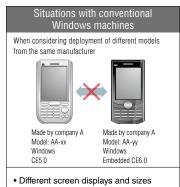
OS
Windows® Embedded Compact 7 & ARM Cortex®-A8 (800 MHz)



Common development environment/application

BT-W100/W80/W70 SERIES

Effective use of development assets



- Different interfaces
- Different Internet Explorer versions
- Different drivers

Different applications need to be created for each model since different platforms (such as Windows OS versions) lead to different hehaviours



Development environment: Visual Studio 2008 Professional Development tool: BT-WHD1 Operation management: BT-WHM1

A common platform is used so that software assets can be utilised effectively among different models. You can select the hardware best suited to your environment.



User friendly built-in functions

BT-W100/W80 SERIES

Built-in microSD (SDHC) slot

Up to 32 GB of data can be stored, including large product images and master files. Via a microSD card, the settings in your handheld terminal can be copied to another terminal, which is very useful when you replace terminals upon failure or deploy an additional one.

BT-W100/W80/W70 SERIES

Schedule function

Starts a specified application at a specified time. With this function, regular or nighttime operations can be performed without human intervention, including system maintenance and data backup.



BT-W100/W80/W70 SERIES

Direct key registration

Any key sequences can be assigned to function and other keys. This function allows you to display the calculator/software keyboard or capture a screen only with a single operation.

Built-in site survey function

BT-W100/W80/W70 SERIES

Visualisation of radio waves! You can test an access point before deployment.

Channel detection function

Thanks to a built-in measurement tool, the radio wave environment can be checked with the BT-W Series alone. You do not have to buy a separate expensive radio wave metre any more.

541 Detect Channels 80.2 lbbg | Sept | Sept

Virtual AP mode function

The BT-W Series can function as a virtual access point to reproduce a working radio wave environment. You do not need to use a computer or prepare an access point for testing. No additional wiring or installation is necessary either.



Various communication built-in interfaces to support a wide variety of solutions



BT-W100/W80/W70 SERIES

Wireless LAN standard IEEE802.11n-compliant

Due to compliance with IEEE802.11b/g/n, heavy content like product images can also be presented smoothly.

Wireless LAN s Indards

Standard	Speed (theoretical value)	Frequency band
IEEE802.11n	150 Mbps	2.4 GHz
IEEE802.11g	54 Mbps	2.4 GHz
IEEE802.11b	11 Mbps	2.4 GHz

Feature
Long communication distance, resistance to obstacles
Resistance to obstacles Susceptible to microwave and Bluetooth interference

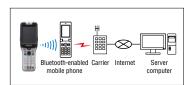
^{*} Compliant with wireless LAN security standard WPA2 (IEEE802.11i).

BT-W100/W80/W70 SERIES

Standard Bluetooth® support

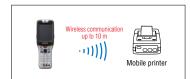
Bluetooth mobile phone

Communication with a remote server is possible via a Bluetooth-enabled mobile phone. Off-site data and results at each store can easily be collected into the central server.



Supports Bluetooth printers

Using a Bluetooth-enabled printer, you can print ID tag labels and simplified POS system receipts easily on site.



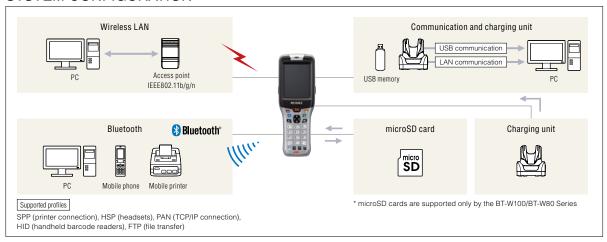
BT-W100/W80/W70 SERIES

Linkage with tablet/computer through Bluetooth communication (HID-compliant)

Keyboard entry onto your tablet or computer is possible through Bluetooth connection. This Series can be used as a cordless barcode reader.



SYSTEM CONFIGURATION



Comprehensive built-in functions

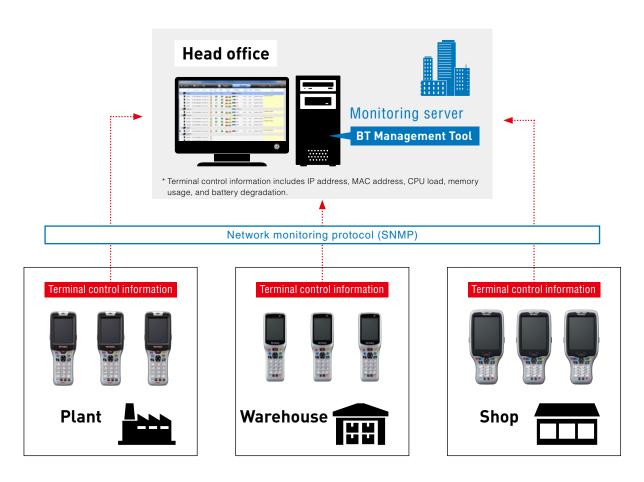
			Intelligence Durability BT-W100 series BT-W80 series		Lightweight BT-W70 series	
			3.5-inch LCD Handheld Terminal	2.7-inch LCD Handheld Terminal	2.4-inch LCD Handheld Terminal	
Page			Function			
Reading Performance	Supported codes	P.6	Bar	io io code		
Design/Size/	LCD	P.7	3.5-inch	2.7-inch QVGA	2.4-inch QVGA	
Weight	Size/weight		257 g Centre-of-gravity design	223 g Centre-of-gravity design	130 g Centre-of-gravity design	
Touch Panel/	Outdoor visibility	P.8	Transmis		ection film	
LCD/Keys	Touch panel/ keys	1.0	Key backlight	Touch panel	_	
Structure Durability/	Durable structure	P.9	1.5 m	3.0 m	1.5 m	
Environmental Resistance	Enclosure rating/ operating temperature	Г.Э	IP54 -5 to 50 °c	IP64	IP54 -20 to 50 °c	
Long-term	Energy saving	D40	Energy-sa	ving design Battery degradation	on control algorithm	
Operation	Battery/ duration	P.10	Cylindrical 22 hours	Cylindrical 28 hours	Square 26 hours Standard: 14 h. Large capacity: 26 h	
System Reliability	Data protection	P.11	Dedicated file system Data protection at instantaneous p		Stantaneous power cut	
Compatibility	OS/CPU	P.12		ows =	I Cortex-A8	
Compatibility	Development environment	F.12	Visual Studio [®] Visual Studio 2008 Professional			
Other function	Media interface	P.13	microSD (SDHC)			
	Wireless LAN	P.14	11		(¹)) ey function	
Connectivity	Bluetooth	г.14	Mobile printer	Mobile phone	Tablet connection	

New proposal

Remote access -

Data collection via communication established

You can access handheld terminals on remote operation sites or collect their information remotely from the central management computer without actually going there.



Remote access reduces man-hours and costs to visit each remote site

Remote control & file send/ receive function

You can access a terminal on a remote site simply through a one-touch operation! It is also possible to remotely operate the terminal or send/receive files to/from it.



Response to contacts:

Checking how contacts have been responded

Failure check

Checking failed terminals and recovery operation on remote sites

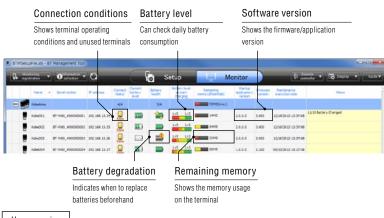
Operation instruction:

Instructing operation by operating terminal application on a remote site from a computer at the head office

Remote monitoring

Terminal monitor function

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



Use scenarios

Terminal control:

Checking operating conditions of terminals at each remote site, managing locations of rented terminals, and understanding unused terminals

Terminal condition check:

Checking battery degradation, memory usage, and firmware version

Identification of operator location information:
Information of the access point currently being connected

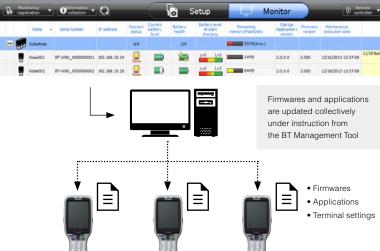
Checking of logs on failures:

Information of operations immediately before failures have occurred

Remote management and upgrading

Collective version management and update function

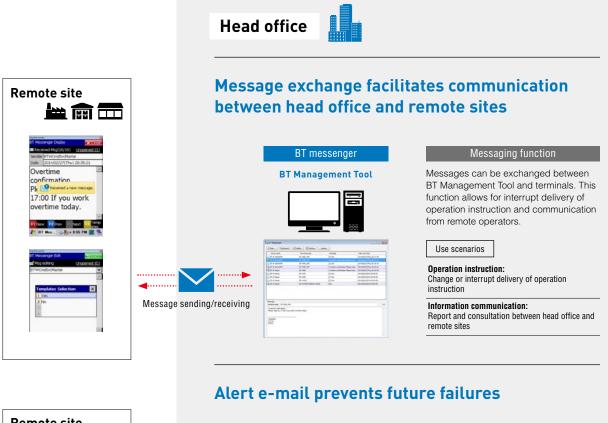
Firmware and application versions and updates can be checked at a glance.

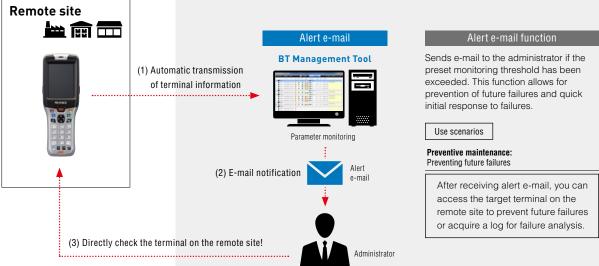




Not only upgrading but also versions of firmwares, applications, and terminal settings can be centrally controlled. These information can be controlled easily even after handheld terminals are deployed on each remote site, which reduces maintenance man-hours drastically.

Deployment, operation, and maintenance all supported with comprehensive functions





Easy step-by-step deployment

Operation manual & application-specific wizard

Operation manual

Setup can be completed simply in accordance with the operation manual. Smooth deployment is ensured because information can be captured from the terminal.





Application-specific wizard

You can create a setup file according to your deployment pattern.



Reproduction of terminal operation helps accurate understanding of events

Operation log review function

You can review the operation history of a terminal from its operation log. Conditions can be checked or reproduced without relying on operator's memory.

Review of operation log on different terminal

Use scenarios

Upon wrong operation:Checking the details of the operation and consistency with acquired data

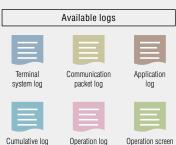
Upon failure:

Checking how the terminal has been operated at the failure and analysing the cause through comparison with various

Even in an emergency, log collection allows for immediate response

Log collection for failure analysis

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



capture

Use scenarios

identifying when and why the error has occurred, checking the operation log of the terminal, and checking how long and under what radio wave environment the terminal has been

Remote site 田鼠坐 **Operation log**

- Key/touch operation history
- Screen transitions during operation



One-touch kitting & no computer required



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



Conventional Sales Style



Fast Delivery

KEYENCE has established a fast delivery system to deliver required products whenever necessary. Products are shipped from warehouse centres in Japan, Singapore, Malaysia, India, Thailand, China, Taiwan, South Korea, U.S., Mexico, Canada, Brazil, the U.K., Germany, France, Belgium and Italy 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 placemen



Inventory management/clearance



Picking/shipping inspection



Location management



Gas cylinder delivery/container management



Process progress management/results



Malpractice check/vital sign entry



Prevention of wrong tip reel replacement

SPECIFICATIONS

Model		BT-W100G BT-W100GM	BT-W155G BT-W155GM	BT-W80G BT-W80GM	BT-W85G BT-W85GM	BT-W70G BT-W70GM	BT-W75G BT-W75GM			
Туре		Laser type Camera type Laser type Camera type Camera type Camera type								
Controller	CPU OS			ARM Cortex®-A8 (800 MHz) Microsoft® Windows® Embedded Compact 7						
Main	RAM			256 MB (disk area: 32 MB)						
Main memory	ROM			512 MB (disk area: 222 MB), flash-ROM						
		Display	method	3.5-inch transmissive TF	T colour LCD, VA method	, , , , , , , , , , , , , , , , , , , ,	sive TFT colour LCD	2.4-inch transmiss	sive TFT colour LCD	
			n (number of dots)	480 (W) x 6	40 (H) (VGA)		240 (W) x 32	20 (H) (QVGA)		
Display	LCD	Number o	of display colours			65,	536			
Display		Font		MS P Gothi	c, MS UI Gothic, MS Gothic, Sego	e UI, Courier New, Symbol, Taho	ma, Times New Roman, Wingdin	gs * Simsun and Nsimsun need t	be installed	
		Backligh			High-intensity white LED					
	Operation cor	nfirmation	LED		Andrews and the files and bed	3-colour LED (red, green, blue (reinforced glass specifications)	, yellow, cyan, magenta, white)	1		
Operations	Operations Hard keys Type			Fn key, Tab key data input keys x 14 (0 to	x 1 (4 directions), entre x 1, side x 2), y, F2 key, F3 key, F4 key, , character key), 9 keys, ENT key, clear key, key), power key x 1	Set of arrow keys trigger keys x 3 (c function keys x 8 (F1 key, F2 key character key, SFT key), data ENT key, clear key, minus key	ad glass specifications) Set of arrow keys x 1 (4 directions), trigger keys x 3 (centre x 1, side x 2), keys x 8 (F1 key, F2 key, F3 key, F4 key, Fn key, Tab key, acter key, SFT key), data input keys x 14 (0 to 9 keys, key, clear key, minus key, symbol key), power key x 1		Set of arrow keys x 1 (4 directions), trigger key x 1, function keys x 7 (F1 key, F2 key, F3 key, F4 key, Fn key, Tab key, character key), data input keys x 14 (0 to 9 keys, ENT key, clear key, minus key, symbol key), power key x 1	
		Backligh	nt		LED (c		T	-		
		Reading	light source	Visible semiconductor laser (655 nm), output: 1.0 mW, Class 2 laser product (IEC60825-1)	High-intensity red LED	Visible semiconductor laser (655 nm), output: 1.0 mW, Class 2 laser product (IEC60825-1)	High-intensity red LED	Visible semiconductor laser (655 nm), output: 1.0 mW, Class 2 laser product (IEC60825-1)	High-intensity red LED	
		Pointer	light source	-	Visible semiconductor laser (655 nm), output: 390 µW, Class 1 laser product (IEC60825-1)	_	Visible semiconductor laser (655 nm), output: 390 µW, Class 1 laser product (IEC60825-1)	_	Visible semiconductor laser (655 nm), output: 390 µW, Class 1 laser product (IEC60825-1)	
		Scannin	g rate	100 scans/second	_	100 scans/second	_	100 scans/second	_	
		Minimu	m resolution	0.127 mm	2D code: 0.191 mm Barcode: 0.127 mm	0.127 mm	2D code: 0.191 mm Barcode: 0.127 mm	0.127 mm	2D code: 0.191 mm Barcode: 0.127 mm	
Scanner	Optical characteristics		distance	62 to 542 mm (narrow bar width: 1.0 mm) 42 to 222 mm (narrow bar width: 0.25 mm)	35 to 270 mm (CODE39 narrow bar width: 0.508 mm) 40 to 190 mm (CODE39 narrow bar width: 0.254 mm) 25 to 205 mm (OR cell size: 0.508 mm) 75 to 140 mm (QR cell size: 0.254 mm)	62 to 542 mm (narrow bar width: 1.0 mm) 42 to 222 mm (narrow bar width: 0.25 mm)	35 to 270 mm (C0DE39 narrow bar width: 0.508 mm) 40 to 190 mm (C0DE39 narrow bar width: 0.254 mm) 25 to 205 mm (OR cell size: 0.508 mm) 75 to 140 mm (QR cell size: 0.254 mm)	62 to 542 mm (narrow bar width: 1.0 mm) 42 to 222 mm (narrow bar width: 0.25 mm)	35 to 270 mm (C0DE39 narrow bar width: 0.508 mm) 40 to 190 mm (C0DE39 narrow bar width: 0.254 mm) 25 to 205 mm (OR cell size: 0.508 mm) 75 to 140 mm (QR cell size: 0.254 mm)	
		Reading view rar	label width/	_	81 x 51 mm (reading distance: 110 mm)	_	81 x 51 mm (reading distance: 110 mm)	_	81 x 51 mm (reading distance: 110 mm)	
		PCS		0.45 or more (Reflectance of white part: 70% or more)	_	0.45 or more (Reflectance of white part: 70% or more)	_	0.45 or more (Reflectance of white part: 70% or more)	_	
	Supported codes			JAN/EAN/UPC (add-on code support), CODE128, GS1-128, CODE39, NW-7(Codabar), CODE93, ITF, 20f5(Industrial 20f5), COOP 20f5, GS1 DataBar	JAN/EAN/UPC (add-on code support), CODE128, GS1-128, CODE39, NW-7(Codabar), CODE93, ITF, COOP 2of5, 2of5(Industrial 2of5), QR, Micro QR, DataMatrix (ECC200), PDF417, GS1 DataBar, Composite	JAN/EAN/UPC (add-on code support), CODE128, GS1-128, CODE39, NW-7(Codabar), CODE93, ITF, 20f5(Industrial 2of5), COOP 2of5, GS1 DataBar	JAN/EAN/UPC (add-on code support), CODE138, GS1-128, CODE39, NW-7(Codabar), CODE93, ITF, COOP 2015, 2015(Industrial 2015), OR, Micro QR, DataMatrix (ECC200), PDF417, GS1 DataBar, Composite	JAN/EAN/UPC (add-on code support), CODE128, GS1-128, CODE39, NW-7(Codabar), CODE93, ITF, 20f5(Industrial 20f5), COOP 20f5, GS1 DataBar	JAN/EAN/UPC (add-on code support), CODE138, GS1-128, CODE39, NW-7(Codabar), CODE93, ITF, COOP 2of5, 2of5(Industrial 2of5), QR, Micro QR, DataMatrix (ECC200), PDF417, GS1 DataBar, Composite	
		Wireless	standards		IEEE802.11b/g/n					
			equency		2.4 GHz (b, g, n: CHs 1 to 13)					
Communication	Wireless LAN communication Communication distance Security methods				Indoor: 100 m (line-of-sight), Outdoor: 200 m (line-of-sight) (when 11/b/g/n is used) Security: WEP (64/128-bit)/WPA/WPA2 WPA encryption method: TKIP/AES Authorisation method: FSK/EAP-TLS/PAP-MSCHAP-V2					
		Wireless	standards	Bluetooth® V2.1 + EDR						
	Bluetooth		ed profiles							
	communication		ication distance		SPP, PAN (PANU), FTP (Client), HSP (AG), HID (Host/Device) Approx. 10 m (line-of-sight)					
External	Supported me	edia		microSD or microSD (SDHC)				-		
recording media	Supported ca	 		32 GB max.			_			
		Туре				i ion battery pack		,	pack (standard/large capacity)	
		Capacity	Charge mode 1	Anner	19 hours	mAh Approx. 25 hours	Approx. 20 hours		1/1880 mAh Tapprox. 23 hours ^{*1}	
		Continuous usage	Charge mode 2		22 hours	Approx. 28 hours	Approx. 25 hours		approx. 26 hours*1	
Power	Main battery	time*1	Charge mode 3	.,	19 hours	Approx. 25 hours	Approx. 22 hours		approx. 23 hours*1	
supply			Charge mode 1		Approx. 6.0 hours (normal temperature)		Approx. 4 hours/approx. 6.5	hours (normal temperature)	
		Charging time	Charge mode 2		., ,	normal temperature)		Approx. 3 hours/approx. 4.5	hours (normal temperature)	
			Charge mode 3			normal temperature)			hours (normal temperature)	
	Backup battery	Clock	to.		battery: approx. 6 months*2	Flooris desired		battery: approx. 1 month*2	anitary annual of the total of the	
	Buzzer	RAM da	ta	Electric double-layer capacitor: approx. 3 minutes 2 Electric double-layer capacitor: approx. 4 minutes 2 Electric double-layer capacitor: approx. 1 minute 2 Scale: 16 levels. Volume: 3 levels						
Others	Vibration fund	ction					lable			
	Calendar/cloc			Available Automatic calendar (year, month, day, hour, minute, second; up to year 2079), accurate within 80 seconds per month (normal temperature)					ure)	
	Enclosure rat	ing		IP54 (IEC60529)		IP64 (IEC60529)		IP54 (IEC60529)		
	Drop resistance*3			Onto concrete from	m a height of 1.5 m	Onto concrete from a height of 3.0 m Onto concrete from a height of 2.5 m		Onto concrete from a height of 1.5 m		
Environmental	Ambient operating temperature			-5 to +50°C (no freezing) 4 -20 to +50°C (no freezing) 4 -5 to +50°C (when BT-WB2 is used), -20 to +50°C (when BT-WB3 is used) 4						
resistance	Ambient operating humidity			20 to 85% RH (no condensation)						
	Ambient storage temperature			-20 to +60°C (no freezing) 20 to 85% RH (no condensation)						
Ambient storage humidity EMI			`	Class A						
Dimensions				170 x 79 x 36.1 (31.3) mm (The value in parenthesis is the grip dimension.)	170 x 79 x 40.4 (31.3) mm (The value in parenthesis is the grip dimension.)	173 x 61.6 x 37.7 (30.3) mm (The value in parenthesis is the grip dimension.)	173 x 61.6 x 40.0 (30.3) mm (The value in parenthesis is the grip dimension.)	156 x 53 x 34.7 (21.3) mm With BT-WB2 attached	156 x 53 x 36.6 (21.3) mm With BT-WB2 attached	
Weight				Approx. 257 g (with rechargeable battery	Approx. 262 g (with rechargeable battery	Approx. 223 g (with rechargeable battery	Approx. 227 g (with rechargeable battery	Approx. 130 g (with BT-WB2 attached) Approx. 145 g (with BT-WB3 attached)	Approx. 135 g (with BT-WB2 attached) Approx. 150 g (with BT-WB3 attached)	
-				pack attached)	pack attached)	pack attached)	pack attached)			
Accessories					· · · · · · · · · · · · · · · · · · ·	, stylus pen		Hand	l strap	

^{*1} 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.

^{*2} When the main battery is not attached or has no remaining charge.

^{*3} This is a test value. The value is not guaranteed.

^{*4} In a low-temperature environment, the lithium ion battery's continuous usage time decreases. Be sure to check operations before using the product.

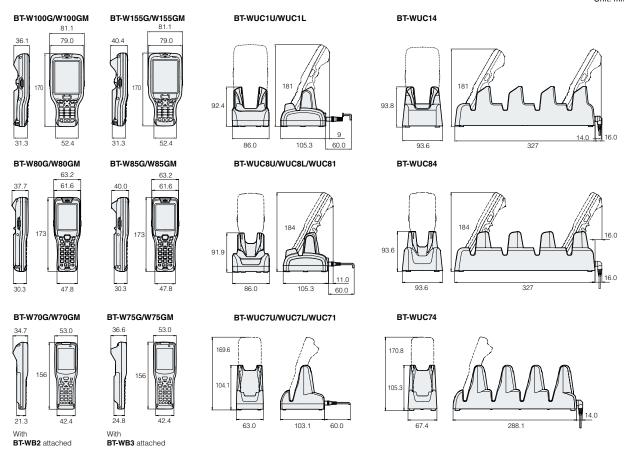
PERIPHERAL EQUIPMENT

	Series	Model	Model Name	
	BT-W100/W80	BT-WB1	Rechargeable Battery Pack	
	BT-W70	BT-WB2	Standard Rechargeable Battery Pack	
		вт-wвз	High-capacity Rechargeable Battery Pack	
	BT-W100	BT-WUC14 (AC adapter included)		
of from	BT-W80	BT-WUC84 (AC adapter included)	4-in-Line Charging Unit	
	BT-W70	BT-WUC74 (AC adapter included)		
Frie	BT-W100/W80	BT-WCG14 (AC adapter included)	4-in-Line Charging Unit for Rechargeable Batteries	
La	BT-W70	BT-CG35 (AC adapter included)	5-in-Line Charging Unit for Rechargeable Batteries	
		BT-A15	Spacers for Use with Rechargeable Batteries (5-spacer Set)	
	BT-W100	OP-87723		
	BT-W80	OP-87759	Soft Case	
	BT-W70	OP-87862		
		BT-WHD1	Programme Development Kit	
	Common	BT-WHM1	Built-In Operation Management Software (BT Management Tool)	

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

	,		
	Series	Model	Model Name
	BT-W100	BT-WUC1U (AC adapter and USB cable included)	Communication and Charging Unit, USB Type
		BT-WUC1L (AC adapter included)	Communication and Charging Unit, LAN Type
	BT-W80	BT-WUC8U (AC adapter and USB cable included)	Communication and Charging Unit, USB Type
A .		BT-WUC8L (AC adapter included)	Communication and Charging Unit, LAN Type
		BT-WUC81 (AC adapter included)	Standalone Charging Unit
	BT-W70	BT-WUC7U (AC adapter and USB cable included)	Communication and Charging Unit, USB Type
		BT-WUC7L (AC adapter included)	Communication and Charging Unit, LAN Type
		BT-WUC71 (AC adapter included)	Standalone Charging Unit
	Common	OP-99xx2*	AC cable
	BT-W100	OP-87724	Belt Pouch
	BT-W80/W70	OP-87162	Dell Foucii
10		OP-87164	Belt for Pouch
	Common	OP-87163	Neck Strap
dia.	Common	OP-87745 (1 strap is included with the terminal)	Wrist Strap (M) , 5-strap Set
	BT-W100	OP-87503	Hand Strap

DIMENSIONS



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