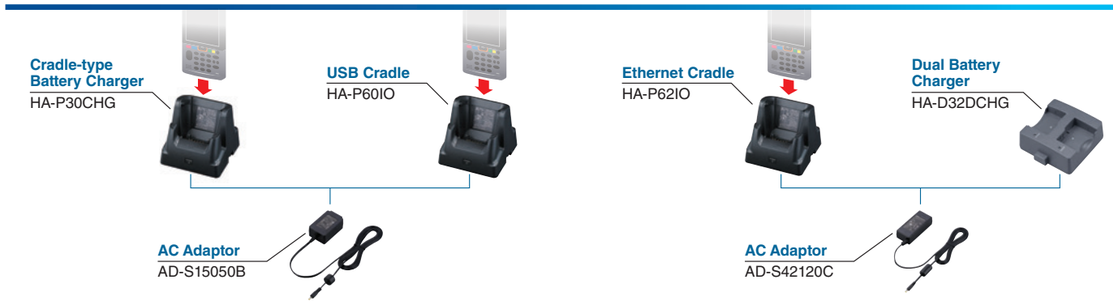
GENERAL GUIDE / OPTIONS

Battery Pack
HA-D20BAT-A

Large-capacity Battery Pack
HA-D21LBAT-A

Flat Battery Cover
HA-P22FBC



SPECIFICATIONS

		IT-G500-C16E	IT-G500-C26E	IT-G500-G15E	IT-G500-GC16E	IT-G500-GC26E	IT-G500-15E	IT-G500-25E
CPU		ARM Cortex-A9 1.5 GHz						
OS		Windows® Embedded Handheld 6.5						
Scanner		Semi-conductor laser	C-MOS imager	Semi-conductor laser		C-MOS imager	Semi-conductor laser	C-MOS imager
GPS		–	–	Yes			–	–
Wireless WAN		–	–	HSPA/UMTS (900/2100MHz), EGPRS (EDGE)/GPRS/GSM (850/900/1800/1900MHz)			–	–
Digital camera	No. of effective pixels	Approx. 5 megapixels		–	Approx. 5 megapixels		–	–
	Focus adjustment	Auto		–	Auto		–	–
Cards	Contactless	NFC reader/writer ISO 14443 Type A (MIFARE®) / ISO 14443 Type B / FeliCa® / ISO 15693		–	NFC reader/writer ISO 14443 Type A (MIFARE®) / ISO 14443 Type B / FeliCa® / ISO 15693		–	–
	microSD	microSD memory card slot (supports microSDHC memory cards)						
Memory	RAM	512 MB						
	F-ROM	4 GB (user available: Approx. 3 GB)						
Display	Display	Transmissive color TFT 4.3-inch LCD WVGA (800 x 480 dots), LED backlight						
	Indicators	Charging confirmation LED (2-color) x 1, Operating status confirmation LED (3-color) x 1						
Input	Keys	Alphanumeric keys, Power key, Reset button, Fn key, CLR key, Function keys (F1 to F4), Enter key, Cursor key Center trigger key, L trigger key, R trigger key						
	Touch panel	Resistive (character input pad display possible)						
Wireless LAN		Compliant with IEEE802.11a/b/g/n, WPA2 support						
Interface	Bluetooth®	Bluetooth® Ver.2.0 + EDR						
	Sound	Speaker, Microphone, Receiver, Earphone microphone jack					Speaker, Earphone microphone jack	
Power supply	Main battery	Lithium-ion rechargeable battery pack Standard battery pack : HA-D20BAT-A 6.84Wh (3.7V / 1,850mAh) Large-capacity battery pack : HA-D21LBAT-A 13.69Wh (3.7V / 3,700mAh)						
	Memory backup	Lithium battery (rechargeable) on board						
Environment	Operating temperature	-20 ºC to 50 ºC						
	Drop durability	1.5 m*1						
	Dust/water-resistance	IP67*2						
Dimensions and weight	External dimensions	Approx. 74 mm x 175 mm x 22 mm (excluding protruding parts)						
	Weight (including standard battery pack)	Approx. 250 g	Approx. 245 g	Approx. 270 g			Approx. 250 g	Approx. 245 g
Accessories		Hand belt, Neck strap, Stylus, Stylus string, Large-capacity battery pack cover						

*1 The drop durability height is a measured value resulting from actual testing. It does not necessarily guarantee the product from damage.

*2 No ingress of dust. No ingress of water even if temporarily immersed in water under defined conditions of pressure when all covers for connectors, etc. are closed. Dust and water resistance are measured using CASIO's testing method. Performance deteriorates due to aging and drop impact and is not guaranteed.

■ **Readable symbologies: IT-G500-15E/C16E/G15E/GC16E**

1D/stacked Symbologies	UPC-A, UPC-E, EAN8, EAN13, Codabar (NW-7), Code39, Code93, Interleaved 2 of 5 (ITF), MSI, Code128 (EAN128), Industrial 2 of 5, IATA, GS1 DataBar Omnidirectional, GS1 DataBar Limited, GS1 DataBar Expanded, GS1 DataBar Stacked, GS1 DataBar Stacked Onmidirectional, GS1 DataBar Expanded Stacked, GS1 DataBar Truncated

■ **Readable symbologies: IT-G500-25E/C26E/GC26E**

1D Symbologies	UPC-A, UPC-E, EAN8, EAN13, Codabar (NW-7), Code39, Code93, Interleaved 2 of 5 (ITF), MSI, Code128 (GS1-128 (EAN128)), ISBT,Code32, GS1 DataBar Omnidirectional, GS1 DataBar Limited, GS1 DataBar Expanded, GS1 DataBar Truncated
Stacked Symbologies	PDF417, Micro PDF, Composite, Codablock F, GS1 DataBar Stacked Omnidirectional, GS1 DataBar Expanded Stacked, GS1 DataBar Stacked
Matrix Symbologies	Aztec, DataMatrix, Maxicode, QR Code, Micro QR

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Tokyo, Japan

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BS1506-005001A Printed in Japan

CASIO®

HANDHELD TERMINAL

IT-G500

Usability of the next generation

High-specification handheld terminal featuring a 4.3-inch touch panel LCD

- Designed in accordance with ISO 9241-210 standards for human-centered design for interactive systems
- Large 4.3-inch touchscreen LCD offers excellent visibility with WVGA(800×480 pixel resolution)
- ARM Cortex-A9 1.5GHz CPU delivers enhanced processing performance
- Excellent environmental durability : IP67 compliant with an operating temperature range of -20℃ to 50℃
- Tough body that resists drops from a height of up to 1.5m
- High-speed reading, excellent scanning performance with hard-to-read codes
- Equipped with IEEE802.11a/b/g/n standard wireless LAN compatible with WPA2 security standards
- Features GPS and 3G wireless WAN communication*
- Equipped with an NFC reader/writer for contactless smart cards and ISO 15639 approved RFID tags*

*Model Dependent

Bluetooth®

Designed from top to bottom to take ease of use to the next level

Uncompromising pursuit of operability down to the smallest detail, including body shape and key layout. Equipped with a high-performance CPU and other high-spec components for high-speed processing and communications performance.
Delivers the usability required to comfortably and accurately perform a wide range of tasks.

IT-G500

Ergonomic Grip

Human-centered design

CASIO employs human-centered design methods during product development. We produce prototypes based on data obtained from user interviews and behavior observation that mimics actual worksites and then perform testing and verification from the perspectives of usability specialists and users alike. The results are fed back to the design teams, and shapes and designs are perfected through repeated refinements.

A body shape designed to ensure a comfortable grip

We conducted tests on a series of actions involving holding the terminal, viewing the screen and scanning then designed the body shape, grip material, surface treatment, and other details on the basis of the test results. This process resulted in an ergonomically shaped grip that fits comfortably in the hand and permits operation for many hours without fatigue.

Downward scanner angle to facilitate easier scanning

We scanned barcodes placed at various heights, measuring work times and muscle load and also performed eye movement tracking. Analysis of the resulting data led to adoption of a downward scanning angle that places little strain on the eyes, arm, or hand and ensures reliable scanning even of barcodes in high and low locations while viewing the screen at the same time.

Key shape designed for ease of input

We performed actual input operation using design prototypes with different combinations of key shape, size and pitch then compared ease of input. By compiling data on the operating experiences of test subjects and making repeated improvements, we arrived at a key design that enables comfortable, accurate input.

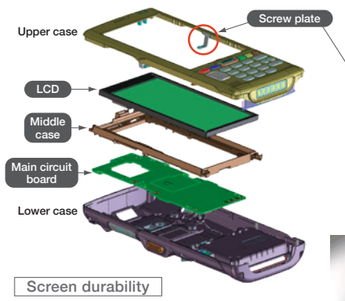
Large 4.3" touchscreen

The IT-G500 has a 4.3-inch transmissive TFT LCD screen that supports WVGA (800 x 480 dots). The LCD offers excellent visibility indoors or outdoors and displays even small text with high resolution.The enlarged screen area makes it possible to display more information to increase effectiveness when the IT-G500 is used to place orders or search product information. The resistive touch panel can be operated even while wearing gloves.

93 mm

Tough body

The unique impact-resistant frame construction, featuring a middle case that reinforces key components and upper and lower cases that protect them from shocks, provides impact resistance for drops from a height of up to 1.5 m. The use of packing around the entire casing and the external mounting screws provides IP67 protection. Furthermore, the IT-G500 has an operating temperature range of -20 ℃ to 50 ℃.

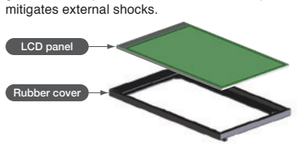


Screw plate

Since there is no space for screw holes alongside the screen, a metal plate with screw holes has been attached to the upper case.
The case is fixed in place with eight screws ideally spaced at even intervals.

Screw durability

The area surrounding the LCD is covered with rubber, and the touch panel is made of crack-resistant polycarbonate, which is softer than glass. An air layer between LCD and touch panel mitigates external shocks.



Drop durability test

Waterproof test

SMART USABILITY

Advanced functions

The IT-G500 provides a variety of functions to support field operations and communication with headquarters, increasing work efficiency by delivering outstanding performance.

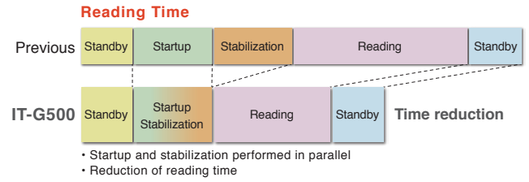
High-performance laser scanner

*IT-G500-15E/C16E/G15E/GC16E

The IT-G500 is equipped with functions that support smooth, efficient reading, including scan width control, laser focus, and vibrator alert. Furthermore, a decoder specification upgrade has increased processing speed and improved the scanning performance of hard-to-read barcodes. These high-performance specifications make faster, more accurate scanning possible.

High-speed reading

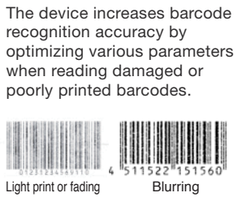
Reading time has been reduced by tuning the device's processing methods to save fractions of a second.

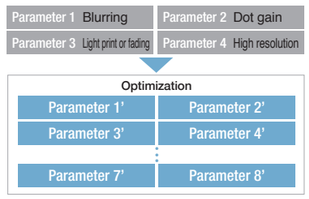


- Startup and stabilization performed in parallel
- Reduction of reading time

Handling of hard-to-read barcodes

The device increases barcode recognition accuracy by optimizing various parameters when reading damaged or poorly printed barcodes.





C-MOS imager for 1D & 2D code reading

*IT-G500-25E/C26E/GC26E

The device supports reading of a wide variety of 1D & 2D code symbologies. Use of the latest module and decoder improves performance when scanning hard-to-read codes, increases depth of field, and increases hand jitter tolerance.

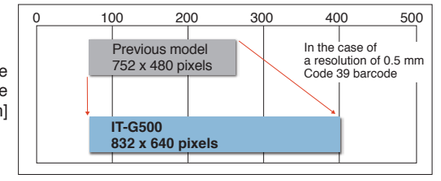
Scanning of hard-to-read codes

Improved module and decoder performance have increased accuracy in reading hard-to-read codes, such as lightly printed, faded, blurred, or soiled images.

Hard-to-read code images

Improved readable distance

The number of pixels is 1.4 times that of previous models. Furthermore, use of the latest decoder results in a readable distance increase of 50% or greater.



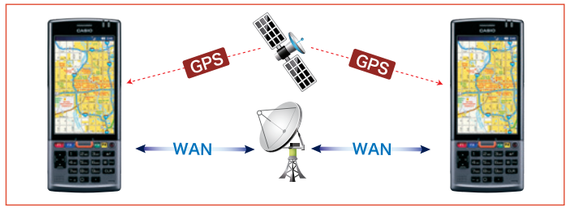
Increased hand jitter tolerance

Use of a global shutter improves performance in capturing moving objects by a factor of ten or more. The scanner reliably reads images even if jittering occurs.

Wireless WAN module

*IT-G500-G15E/GC16E/GC26E

The IT-G500 supports high-speed data communications (HSPA) and voice communication and enables real-time communications outdoors. In addition, the GPS function makes it possible to acquire positioning information. These features are useful in a wide range of applications in field operations.



Power control

The IT-G500 can be turned on from a remote location via a wireless WAN network.

Data communications

Data communications can be performed by connecting to an IP network.

Equipped with an NFC reader/writer

*IT-G500-C16E/C26E/GC16E/GC26E

Users can read a variety of information simply by holding contactless smart cards over the device's built-in antenna. This capability expands the scope of application to areas such as customer service enhancement using membership cards and security enhancement via card authentication.

Supported Standards

ISO 14443 Type A (MIFARE®) / ISO 14443 Type B / FeliCa® / ISO 15693

Compatible with IEEE802.11a/b/g/n standards

The IT-G500 is equipped with an IEEE802.11a/b/g/n wireless LAN module. Both the 2.4 GHz and 5 GHz bands can be used, allowing for smooth operation even in congested wireless LAN environments. In additions, support for the WPA2 protocol ensures secure wireless communications. The device also supports TKIP and AES encryption and PSK, PEAP, and EAP-TLS authentication.

5 megapixel digital camera

*IT-G500-C16E/C26E/GC16E/GC26E

The IT-G500 is equipped with a 5 megapixel digital camera with autofocus. A high-intensity LED light makes it possible to take photos in dark places.