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

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Features GPS and 3G wireless WAN communication*

High-speed reading, excellent scanning performance with hard-to-read codes

Full battery rechargeable on board

Display: 4.3-inch touch panel LCD, WVGA (800 x 480 dots), LED backlight

Lithium-ion rechargeable battery pack

USB Cradle HA-P62IO / Ethernet Cradle HA-P62FC

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 15693 approved RFID tags*
Ergonomic Grip

effectiveness when the IT-G500 is used to place orders or small text with high resolution. The enlarged screen area provides excellent visibility indoors or outdoors and displays even fine characters clearly.

Delivers the usability required to comfortably and accurately perform a wide range of tasks.

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 WXGA (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.

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 between the LCD and touch panel mitigates external shocks. The case’s water- and dust-proofing feature ensures operation in harsh environments.

Screen durability

The screen takes steps to mitigate impacts, shocks and scratches. Furthermore, the IT-G500 has an operating temperature range of -20 ºC to 50 ºC.

Power control

The device can be turned on from a remote location via a wireless WAN.

Data communications

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

Screen durability

The screen is protected from external impacts.

Screen readability

The screen maintains high visibility even in bright light.

Wireless WAN module

The IT-G500 supports high-speed data communications (HSPA) and voice communications 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.

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.

5 megapixel digital camera

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.

Smart usability

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

The IT-G500 is equipped with functions that support smooth, efficient reading, including scan width control, laser focus, and vibration 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.

Scanning of hard-to-read codes

Improved modals and decoder performance have increased accuracy in reading hard-to-read codes. use of highly printed, faded, blurred, or soiled 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.

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

The device supports reading of a wide variety of 1D & 2D code symbologies. Use of the latest scanner improves performance when scanning barcodes and increases hand jitter tolerance.

High-speed reading

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

Handling of hard-to-read barcodes

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

Readability

The number of pixels is 1.4 times that of previous models.

Parameter 4

Parameter 5

Parameter 6

Parameter 8'