

H 13

Portable Terminal



The H13 is a very reliable and rugged portable terminal. The terminal accommodates 16 MB data memory for data storage during regular inventories.

Product Features

Data collection device

The high performance laser scanner provides a fast and accurate scan and is immediately ready for the next scan even when the barcodes are printed with low contrast or high density. Serial InfraRed (SiR) and also to Fast InfraRed (FiR up to 4MB) enables uploading and downloading to compatible peripherals and printers. A designated charging and communication cradle performs reliable batch method data communication to RS232 or USB interfaced hosting servers.

Quick and durable Operability

The H13 withstands drop tests from the height of 1.5 m and is sealed to IP54 standards for water and dust resistance. The practical keyboard layout allows functional and quick input of daily processed data. Customizable function keys to set frequently-use functions highly improve the operating efficiency.

Choice in Battery Type

The battery compartment of this terminal supports rechargeable batteries or user-replaceable pen-lite batteries. Depending on the best fit in the daily routines, the users can charge the terminal at the end of the working cycle (in an optionally supplied charging cradle) or choose for a last-minute battery replacement at location.

Cabled

Wireless

Stationary

OEM

OPTICON
always scanning for new ID's

Specifications

H 13 Portable Terminal

Electrical specifications

Main battery pack: Lithium-Ion rechargeable (Opticon item) 3.7 V 1100 mAh
Main dry cell battery: 2 x Alkaline AA-size batteries (optional user item)
Main battery pack operating time: Ca. 90 hours (1 scan/5 sec)
Main dry cell battery operating time: Ca. 150 hours (1 scan/5 sec)
Backup battery: Rechargeable manganese silicon lithium battery (18 mAh)
Backup battery operating time: > 1 week
Charging method: Recharging Lithium-Ion pack in terminal via cradle
Charging time: Ca. 3 hours

Optical specifications

Light source: 650 nm visible laser diode
Scan method: vibrating mirror
Scan rate: 100 scans/sec
Decode rate: 100 decodes/sec
Reading pitch angle: -35 to 0°, 0 to +35°
Reading skew angle: -50 to -8°, +8 to +50°
Reading tilt angle: -20° to 0°, 0 to +20°
Curvature: R>15 mm (EAN8), R>20 mm (EAN13)
Min. resolution at PCS 0.9: 0.15 mm / 6 mil
Min. PCS value: 0.45
Depth of field: at PCS 0.9, Code 39
55 - 520 mm / 2.17 - 20.47 in (res. 1.0 mm / 39 mil),
35 - 350 mm / 1.38 - 13.78 in (res. 0.5 mm / 20 mil),
35 - 200 mm / 1.38 - 7.87 in (res. 0.25 mm / 10 mil),
35 - 100 mm / 1.38 - 3.94 in (res. 0.15 mm / 6 mil),
45 - 80 mm / 1.77 - 3.15 in (res. 0.127 mm / 5 mil)

Communication specifications

Interface IrDA: Ver. 1.2, SiR 9.6-115.2 kbps, FiR 4 Mbps

Identification

Supported barcode symbologies (1D): JAN/UPC/EAN (WPC) incl. add on, Chinese Post, Codabar/NW-7, Code 11, Code 39, Code 93, Code 128, IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISMN-ISSN, Korean Postal Authority code, Matrix 2of5, MSI/Plessey-UK/Plessey, RSS, S-Code, Telepen, Tri-Optic, Composite codes
Supported 2D code symbologies: MicroPDF417, PDF417

Functionality

Memory FlashROM: 4 MB
Memory RAM: 16 MB RAM
Microprocessor: ARM7, 32-bit
Real time clock: Quartz RTC, time and date programmable, leap year handling, (accuracy +/- 60 sec./month)
Display: 128 X 128 Pixels graphic LCD with adjustable backlight
Character fonts: min. 10 characters x 5 lines, max. 21 characters x 21 lines, font size 6x6 / 6x12 / 8x8 / 8x16 / 12x24
Indicators: Dual-color scanning indication (red/green), buzzer, vibrate
Keyboard: 22 keys total (10 keys alphanumeric keypad, 3 function keys, 1 power button, 3 control keys, 2 quick keys, 1 scan button)
Operating System: proprietary
Programming: C-language (free downloadable software development kit)

Environmental specifications

Temperature in operation: -10 to 50 °C / 14 to 122 °F
Temperature in storage: -20 to 60 °C / -4 to 140 °F
Humidity in operation: 20 - 85 %
Humidity in storage: 20 - 85 %
Ambient fluorescent light immunity: 4,000 lx max.
Ambient incandescent immunity: 4,000 lx max.
Ambient direct sun light immunity: 80,000 lx max.
Shock drop test: 1.5 m / 5 ft drop onto concrete surface
Shock vibration test: 10 - 100 Hz with 2 G for 1 hour
Protection (dust and moisture, IEC529): IP 54

Physical specifications

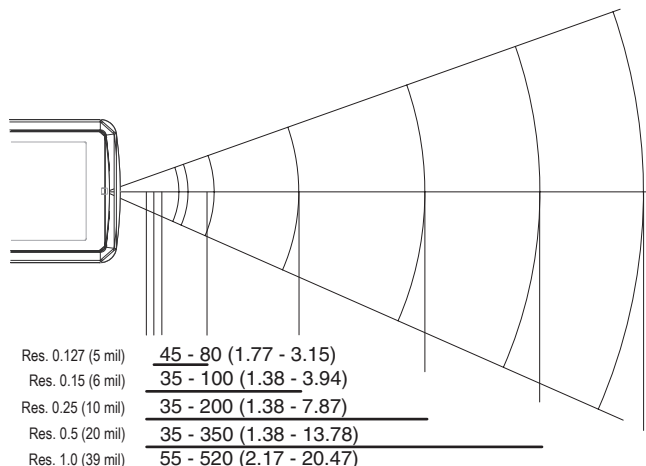
Dimensions: 53 x 31 x 159 mm / 2.09 x 1.22 x 6.26 in
Weight body: Ca. 180 g / 6.4 oz (incl. AA battery)

Regulatory

Laser safety class: JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II
Product compliance: CE, FCC, VCCI, RoHS

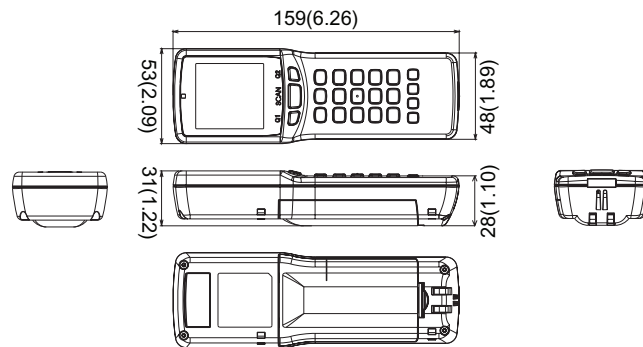
Depth of field

Unit: mm (in)



Dimensions

Unit: mm (in)



Enclosed items

Handstrap

Accessories

Sold separately
Charging and communication cradle CRD 13, Rechargeable Lithium-Ion battery, Dry cell AA batteries, Holder for AA-size batteries