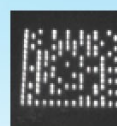# MINDEO™

Mobile Image Scanner

MS3590

- A lightweight programmable data terminal

- A SDK based on C is provided including user-friendly IDE & fully functional APIs

- Compact size and portable design contributes to excellent mobility

- Bluetooth protocol supports both HID and SPP, and is compatible with iOS, Android and Windows OS

- Support database importing and querying

- Multi-line screen (128 x 64) with backlight

- High capacity storage: 16MB in Batch mode, 96MB in U-Disk mode

- Battery (1900mAH) life for 5+ hours of continuous use/ 7+ days standby

- Read all major 1D and 2D symbols

- Read symbols from mobile phones/ inverse symbol/ DPM symbol

DPM symbol

GS1   CE   RoHS   IP52

MS3590 Specifications

Data storage	16 MB for out of range batch/data batch mode: 1,118,480 barcodes (each barcode is of 15 bytes);
	96 MB for U Disk mode: 1,509,949,440 barcodes (each barcode is of 15 bytes).
Radio link	2.4 ~ 2.5GHz (ISM band), Bluetooth V2.1+EDR, class 2
Working range	30 meters (line of sight)
Interface	Bluetooth scanner: HID Keyboard,Serial Port Profile (SPP), operating as either a master or a slave
	USB wired scanner: USB HID keyboard, USB virtual COM
	U Disk (with which barcode data is stored in a txt file rather than sent to a host via Bluetooth/USB)
Keyboard layout	USA, Turkish F/Q, French, Italian, Spanish, Slovak, Denmark, Japanese, German
Dimensions	L × W × D: 125mm × 46mm × 31mm
Weight	128g
Color	White/ Black/ Grey/ Customization
Battery	1900 mAh Lithium-ion battery
Charge time	Fully charged (>80%) in 4 hours
Charge current	500 mA
Standby time	Over 7 days
Operating time	5.5 hours
Case material	ABS
Image size	838 × 640 pixels
Scanning angle	±60°, ±40°, 360° (Skew, Pitch, Roll)
Decode capability	1D: All major 1D symbols including GS1 DataBar
	2D: PDF417, MicroPDF417, QR Code, DataMatrix, Han Xin Code, Aztec Code
Indicator	Beeper, LED, Vibrator
Display	LCD monochrome display (128 × 64) with LED backlight
Operating mode	Handheld
Programming method	Manual (reading special barcode);On-Screen (pressing special keys)
Firmware upgrade	Online via USB interface
Temperature	-20° to 55°C (-4° to 131°F), Operating; -40° to 70°C (-40° to 158°F), Storage
Humidity	5% to 95% (non-condensing)
Input Voltage	4.75V – 5.25V
Operating current	5mA (sleeping); 350mA (scanning); 360mA (transmitting)

Decode depth & Max. resolution			
3.5mil Code128 (9 chars):	1.5cm – 3.5cm	6.7mil PDF417 (20 chars):	0.0cm – 7.5cm
5mil Code39 (20 chars):	0.8cm – 5.5cm	10 mil DM (20 chars):	0.0cm – 11.5cm
13mil UPC (12 chars):	0.7cm – 16.5cm	20 mil QR (20 chars):	0.0cm – 19.5cm
20mil Code39 (5 chars):	3.5cm – 21.0cm		

Safety	Laser safety: EN60825-1, class 1; EMC: EN55022, EN55024; ESD: ±8KV air discharge, ±4KV direct discharge; Protection class: IP64; Environmental: RoHS compliant; Electrical safety: EN60950-1;
	Drop resistance: Multiple 1.5m (4.9ft) drops to concrete