

# MS3690-2D

Lightweight programmable data terminal



1D/2D



## Features

- Support to receive data and recharge using the base
- Use magnetic USB cable, can improve durability
- Use OLED screen, more energy-efficient and more comfortable
- Read all common 1D/2D barcodes from paper labels and electronic screens
- A SDK based on C is provided including user-friendly IDE & fully functional APIs
- Optional: Bluetooth is compatible with 4.0/3.0/2.1+EDR standard
- Optional: Wi-Fi supports Station mode and Access Point (AP) mode
- Windows and Android、iOS
- Support database importing and querying
- Support offline storage and automatic reconnect
- Support the display in multiple languages
- Support vibration mode, ideal for both noisy and quiet environment

# MS3690-2D Technical Specifications

Working range	Bluetooth: 30 m (line of sight), Wi-Fi: 100m (line of sight)		
Radio link	Bluetooth: 2.4–2.5 GHz, Bluetooth 4.0/3.0/2.1+EDR, Class 2 Wi-Fi: 2.4 GHz, compliant with Wi-Fi IEEE 802.11 b/g/n protocol standards		
Interface	Bluetooth: HID keyboard, SPP, BLE Wi-Fi: Station mode (STA), Access Point mode (AP) USB: USB HID keyboard, USB virtual COM, U Disk		
Data storage	4MB for out of range batch: 250,000 barcodes (each barcode is of 15 bytes) 8MB for data batch mode: 500,000 barcodes (each barcode is of 15 bytes) 76MB for U Disk mode: 5,000,000 barcodes (each barcode is of 15 bytes)		
Keyboard layout	USA, Turkish F/Q, French, Italian, Spanish, Slovak, Denmark, Japanese, German		
Dimensions	Length × Width × Depth: 12.5×4.6×3.1cm		
Weight	115 g		
Color	Gray/Black/White/Customization		
Case material	ABS		
Indicator	Beeper, LED, Vibrator		
Display	OLED display (128×64) with LED backlight		
Input Voltage	5±5%V		
Operating current	Bluetooth: 7 mA (sleeping), 80 mA (working), 450 mA (scanning) Wi-Fi: 7 mA (sleeping), 132 mA (working), 506 mA (scanning)		
Battery	1900 mAh Lithium-ion battery   Charge current: 500 mA   Charge time: Fully charged (>80%) in 4 hours Support computer USB interface charging		
Standby time	7 days		
Operating time	Bluetooth: 19 hours, Wi-Fi: 12 hours, based on 1 scan/5 seconds		
Scan engine	ME5800		
Image size	1280×800 pixels		
Field angle	Horizontal: 42°, vertical: 26.5°		
Light source	white LED, 2700K		
Target light source	green LED, wavelength 525nm		
Scanning angle	±70°, ±72°, ±360° (Skew, Pitch, Roll)		
Barcode contrast	minimum 20%		
Decode capability	1D: UPC-A, UPC-E, EAN-13, EAN-8, ISBN/ISSN, Code 39, Code 39 full ASCII, Code 32, Trioptic Code 39, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, Codabar(NW7), Code 128, Code 93, Code 11(USD-8), MSI/Plessey, UK/Plessey, UCC/EAN 128, China Post, GS1 DataBar(formerly RSS)variants 2D: QR code, Micro QR code, PDF417, MicroPDF417, DataMatrix, Han Xin Code, Aztec Code		
Minimum resolution	HD: 1D: 3mil, 2D: 5mil; SR: 1D: 4mil, 2D: 6.7mil		
Decoding depth		HD	SR
	3mil Code 39 (3 chars)	44-97mm	
	4mil Code 128 (9 chars)	35-135mm	70-155mm
	10mil Code 39 (3 chars)	18-257mm	28-315mm
	13mil UPC (6 chars)	21-282mm	21-325mm
	20mil Code 39 (1 char)	40-385mm	40-500mm
	6.7mil PDF417 (20 chars)	30-162mm	61-175mm
	10mil QR (20 chars)	17-190mm	42-175mm
10mil DM (20 chars)	20-190mm	53-190mm	
20mil QR (20 chars)	25-315mm	20-373mm	
Temperature	working: -20°C to 55°C (-4°F to 131°F); storage: -40°C to 70°C (-40°F to 158°F)		
Humidity	5% to 95% (non-condensing)		
Safety	EMC: EN55032, EN55024		
	Photobiological Safety: EN62471		
	Electrical safety: EN60950-1   Illumination: 0~100,000LUX		
	Protection class: IP65		
	Drop resistance: Multiple 1.2m(4.9ft) drops to concrete Environmental: RoHS compliant		

Note: Bluetooth and Wi-Fi are optional (Alternative).

