

Tipcode Scanner

DM8500MAX

Ultra-Compact Smart Code Reader. With a compact and space-saving design, this device is ideal for use in confined spaces. It delivers high-efficiency decoding performance for complex DPM codes, challenging inkjet-printed codes, and difficult paper label codes.



Product Features

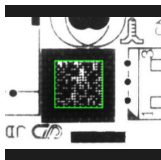
- Plug-and-play design with no complex operation or learning curve, enabling quick installation and easy debugging.
- Integrated multi-interface design, supporting Serial, USB, and I/O.
- Customized large depth-of-field lens, meeting wide-range code reading requirements.
- End-to-end AI-powered decoding algorithm, supporting reliable reading of complex DPM codes.
- Multi-code reading capability, supporting up to 30 barcodes in a single image.
- ultra-compact size, suitable for installation in extremely tight spaces.

Integrates with deep learning algorithms

Powered by AI deep learning decoding algorithm, it can accurately read difficult and irregular barcodes.



Curved surface



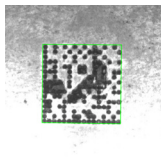
Low contrast



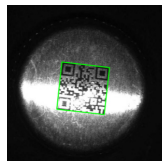
Tilted and multi-code



Deformed



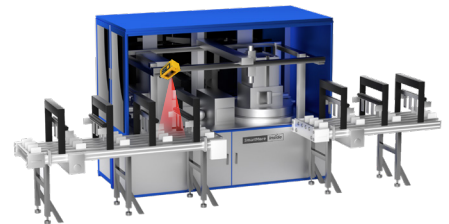
Corroded



Reflective interference

Ultra-Compact, Sensor-Level Design

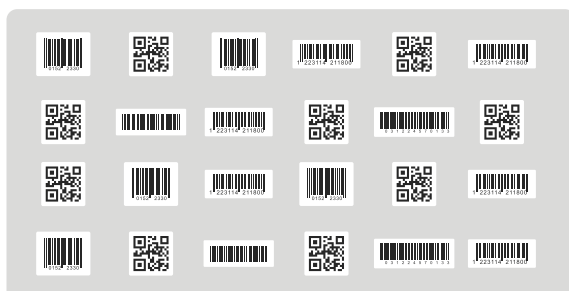
With a sensor-level miniature form factor, the device features an extremely small body that can be flexibly installed in ultra-tight spaces, perfectly embedding into compact equipment.



The device's size is only 1/4 the size of a business card.

1.4MP Large Field of View, Multi-Code Reading

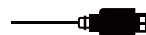
Equipped with a high-quality 1.4MP large field-of-view image sensor, it supports multi-code reading in a single image, with the ability to decode up to 30 barcodes simultaneously.



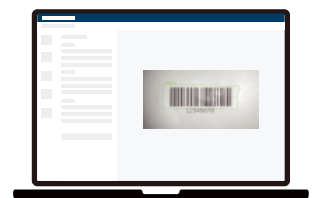
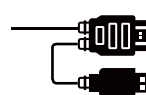
Plug-and-Play, Fast and Convenient

Supports USB and RS232 dual-interface communication with no driver installation required. Plug-and-play functionality combined with a user-friendly interface ensures easy operation and minimal learning curve.

USB



RS232



Applications



Manufacturing



Retail



Logistics



Healthcare

Physical structure

Light source

For image acquisition and supplementary lighting.

TRIG Button

Single press to trigger.

Code reading status light

Green light for successful reading.

Aiming light

Indicate the center position
Of the image to facilitate
targeting the objective.

Image sensor

For capturing images

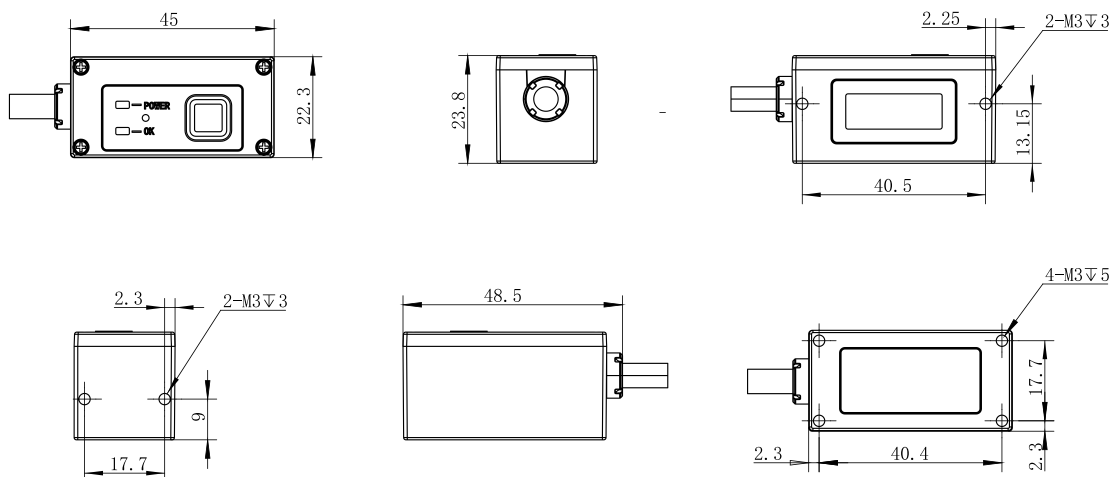
Power indicator light

Turns green when works
normally.

Connection Cable

Provides power supply, USB,
Serial, and I/O functions.

Dimensional diagram



Unit: mm

Technical specifications

Product model	DM8500MAX-HD Series	DM8500MAX-NR Seires	DM8500MAX-SR Series
Resolution (HxV)	1288 × 1088		
Frame rate (fps)	60		
Colors/black & white	black & white		
Shutter	Global		
Exposure Time	20μm-1sec		
Pixel size	2.7μm*2.7μm		
Focusing method	fixed focus		
Reading parameters	HD Series: Code 39(3mil):30~60 mm Code 128(10 mil):40-122 mm QR Code(5mil):30~80 mm Data Matrix(5 mil):35~74 mm	NR Series: Code 39(5 mil):40-120 mm Code 128(10 mil):15 -250 mm EAN13(13 mil):30-280 mm QR Code(10 mil):35-155 mm QR Code(15 mil):15-215 mm QR Code(20 mil):15-270 mm	SR Series: Code39(5 mi l):75 mm-250 mm Code128(3 mil):80 mm-150 mm Code128(10 mi l):65mm-420 mm QR Code(10mi l):75 mm-230 mm QR Code(20mil):65 mm-480 mm
Barcode types	1D barcodes : Code 39 、Code93 、Code128 、EAN-8 、EAN- 13 、Interleaved 2 of 5 、UPC、Pharmacode、Codabar 2D barcodes :QR code、DataMatrix、Maxicode、Aztec、Micro QR、PDF417		
Maximum number of codes read (multiple codes per image)	30		

Structure

Position indicator	One red dots indicating the center area for scanning
Status indicator	Two status LEDs (for reading status and power status)、a buzzer
Light source	white light sources provided

Communication Control & Electrical Parameters.

Input/output control	1 non-isolated inputs / outputs
Communication interface	USB、RS232、I/O
Power input	5VDC(USB)/24VDC
Power consumption	1.25W (5 VDC)

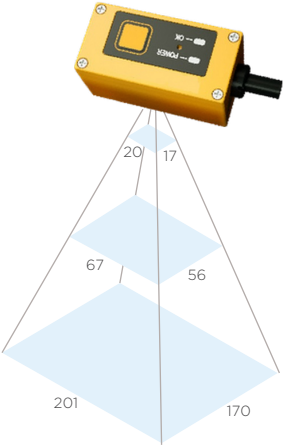
Dimensions & Environmental Parameters

Outer dimensions	45*22.3*23.8mm
Weights	about 67g
Working temperature	0~45 °C
Storage temperature	-20~70°C
Humidity	5%~95%RH(Non-condensing)

Note: The reading parameters are test data from the standard test code.

Reading parameters

DM 8500 MAX series

Working distance (mm)	Horizontal (mm)	Vertical (mm)	1D Pixel accuracy	2D Pixel accuracy	Lateral view indication
30	20	17	0.019	0.031	Field of vision unit(mm) 
50	33	28	0.031	0.052	
100	67	56	0.063	0.105	
150	100	85	0.094	0.156	
200	134	113	0.126	0.209	
300	201	170	0.188	0.314	

Product selection catalog

DM8500MAX Tipcode Scanner Series

Product model	Light source	Type	Pixels	Focusing method
DM8500MAX-14B-SR-UR	White	Standard	1.4MP (1288 × 1088)	fixed focus
DM8500MAX-14B-NR-UR	White	Close-range	1.4MP (1288 × 1088)	fixed focus
DM8500MAX-14B-HD-UR	White	high density	1.4MP (1288 × 1088)	fixed focus

Accessory series

Model	Type
HDB15P-M-ETH-3M	3m Ethernet/serial cable
HDB15P-M-ETH-5M	5m Ethernet/serial cable
HDB15P-M-ETH-10M	10m Ethernet/serial cable
HDB15P-M-USB-3M	3m USB Cable
DM8500MAX mounting bracket	Mounting bracket
24V/60W desktop power adapter	Adapter

Accessories

Cable

DB15 connection cable



Power

24V power adapter



L-shape mounting bracket

L-shape mounting bracket

