

Tipcode Industrial 2D Barcode Scanner

The TP313 Series is a rugged handheld barcode scanner designed for complex industrial applications. Powered by a deeply customized AI chip running a full-stack in-house AI deep-learning algorithm, it delivers excellent, reliable and easy-to-use code reading. Its rugged housing withstands repeated drops and impacts.



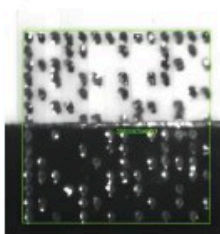
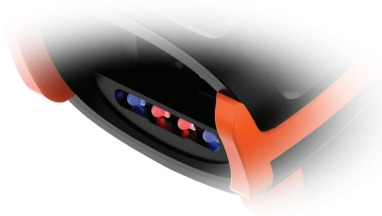
Product Features:

Powerful DPM decoding capability
Custom AI chip with a full-stack AI algorithm for complex DPM barcode reading;

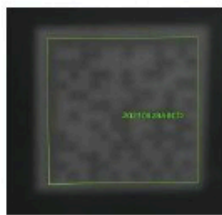
Ultra-rugged housing design;
Withstands repeated drops and impacts; high-durability trigger rated for over 5 million presses.

2.4G wireless transmission technology;
Strong anti-interference capability, with obstacle-free indoor transmission up to 30 m;

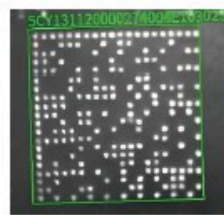
Multi-color fill light, immune to ambient light;
Red, white and blue fill light with automatic polling to suit different lighting environments;



Inverse Code



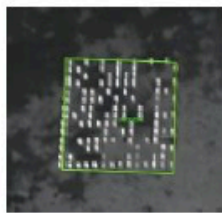
Low Contrast



Dot Matrix Code



Partial Occlusion



Tilted DPM



Ultra-Small Code

Specifications:

Ordering Model	TP313Y (Wired) / TP313S (Wireless)
Performance Parameters	
Image Sensor	1280 × 1080 global shutter CMOS
Illumination	Red + white + blue LED fill light; focusing: red laser LED
Scanning Precision	1D: min. 3 mil; 2D: min. 5 mil
Print Contrast	Minimum 10% symbol contrast
Reading Speed	60 fps
Scan Mode	Button trigger, auto-sense trigger, serial command trigger
Depth of Field	Code39 (5 mil): 40-100 mm Code128 (3 mil): 30-100 mm EAN13 (10 mil): 20-220 mm QR Code (10 mil): 35-150 mm Data Matrix (10 mil): 20-150 mm
Code Types	1D: Code39, Code93, Code128, EAN-8/13, Interleaved 2 of 5, UPC, Pharmacode
	2D: QR Code, Data Matrix, Aztec, Maxicode
Hardware Parameters	
Charging Voltage	DC 5 V ± 0.5 V
Lithium Battery	3.7 V, 3200 mAh
Power Consumption	260 mA ±5% (typical), 380 mA ±5% (max.)
Notification	Buzzer, LED indicator, vibration
Wireless	2.4 GHz wireless, Bluetooth optional
Communication Distance	100 m (open area) / 30 m (indoor)
Communication Interface	USB (HID/CDC), RS232
Offline Storage	8,000 barcodes (13 digits)
Shock Resistance	Withstands 1.5 m drop onto concrete floor
Protection Rating	IP65
General Parameters	
Operating Temperature	0 °C to 50 °C
Operating Humidity	5% to 95% RH (non-condensing)
Storage Temperature	-40 °C to 70 °C
Net Weight	Scanner: 150 g ±5 g (wired) / 210 g ±5 g (wireless); Base: 130 g ±5 g
Product Dimensions	Scanner: 103 mm × 70 mm × 169 mm; Base: 122 mm × 93 mm × 80 mm

Note: If the configuration changes, the actual product shall prevail.