Engineered for Precision
Designed for Productivity

Powerful DPM decoding meets ergonomic comfort for demanding workflows

2506
DPM Handheld Scanner

The CipherLab 2506 is a plug-and-play handheld DPM scanner designed for manufacturing and repair operations. Supporting DPM marking methods including laser-etched, dot-peen, and low-contrast codes, it delivers industry-leading decode performance, lightweight ergonomics, and rapid deployment that enable efficient, cost-effective traceability operations.

Superior DPM Decoding Performance

With a 1.3MP CMOS sensor, the 2506 accurately reads 3 mil 1D and 5 mil 2D barcodes – including laser-etched, dot-peen, and low-contrast marks on metal or plastic surfaces.

Ergonomic, ESD-Protected Design for Industrial Use

At only 166g, the 2506's ergonomic build reduces fatigue for all-day use. Its ESD-protective housing ensures safe, reliable operation in static-sensitive environments.

Reliable Performance in Demanding Environments

With IP54 protection and 1.5m drop resistance, the 2506 endures tough working conditions and maintains dependable performance on busy production or repair lines.

Seamless Plug-and-Play Integration

Simple USB or RS232 connectivity allows instant use without complex setup. An optional stand enables flexible, scanning for maximum efficiency.

2506 series DPM Handheld Scanner

2D IMAGER | 3MIL BARCODE | 1.5M MULTIPLE DROPS | IP54 | CORDED | USB RS232

PERFORMANCE

Optical sensor	1.3MP / 1280 x 1024 pixels CMOS
Light source	White light illumination
Resolution	1D : 3mil (0.076mm) Code 39 PCS 0.9 2D : 5mil (0.127mm) Datamatrix PCS 0.9
Depth of field	250mm @ 20mil (0.5mm) Code 39 PCS 0.9
Scanning angle	Skew : ±60° | Pitch : ±60° | Roll : 360°
Minimum PCS	≥ 20%
Scan rate	65 scans / second
Ambient illumination	Dark Environment, Indoor Natural Light
Barcodes support	1D : UPC-A, UPC-E, EAN-8, EAN-13, Code 128 Code 39, Code 93.Interleaved 2 of 5 2D : QR, Data Matrix, Micro QR, Aztec and barcode Hanxin Code.Good performace to read DPM
Programmable features	Interface selection, symbology configuration

PHYSICAL

Dimension (LxWxH)	72.0 x 171.2 x 80.9 mm
Weight	Approx. 166g (without cable / with battery)
Color	Black
Switch	Trigger Switch : 1,000,000 times @1kg ±50g cycles
User Indicators	Beeper、LED

ELECTRICAL

Voltage	5V ±10%
Power consumption Standby / Operating	150mA / 430mA

USER ENVIRONMENT

Temperature	Operating Temperature : −20°C to 50°C Storage Temperature : −40°C to 70°C
Humidity	5% to 95%
Impact Resistance	1.5m
Ingress Protection	IP54
Electrostatic discharge	±4 kV Contact / ±8 kV Air
Regulatory compliance	CE,BSMI,BIS

ACCESSORIES	WARRANTY
USB / RS232 Cable, Adjustable stand	1 year

1. It is based on communication cradle.
2. The data is tested with USB interface.

Product Views

Accessories

Adjustable Stand   5m RS232 Coiled Cable   5m USB Coiled Cable   RS232 Cable   USB_Cable