

MG-1960 Portable 2D Wireless Scanner



I. Key Features

- High-speed decoding with responsive performance
- OLED display for real-time feedback
- Vibration feedback alerts
- Built-in memory (900KB) supporting inventory mode
- Remote online firmware upgrade capability
- Compact and portable design

II. Technical Specifications

1. Physical Properties

Parameter	Specification
Scanning Modes	Key trigger/Auto-sensing/Continuous scan
Communication Interface	USB-HID keyboard/USB virtual COM port
Wireless Range	2.4G Wireless: 0-80m (open area); Bluetooth: 0-20m (open area)
Alert Methods	Buzzer, display, vibration motor
Configuration Method	Manual configuration via setting codes scanning
Housing Material	ABS + PC
Cable Standard	USB straight cable (1m)
Dimensions	Scanner: 122mm × 42mm × 30.5mm; Packaging: 150mm × 100mm × 35mm
Weight	Net: 60g; Gross: 120g

2. Performance Parameters

Parameter	Specification
Internal Memory	900KB
Sensor	300K global CMOS sensor
Resolution	640 × 480 pixels

Light Source	White LED
Scanning Angles	Pitch: $\pm 60^\circ$, Yaw: $\pm 60^\circ$, Roll: 360°
Scan Rate	120 frames per second
Field of View	48° (Horizontal) $\times$ 30° (Vertical)
Minimum Print Contrast	15%
Supported Symbologies	1D: EAN-13, EAN-8, UPC-A, UPC-E, ISSN, ISBN, Codabar, Code 128, Code 93, Interleaved 2 of 5, Industrial 2 of 5, Matrix 2 of 5, GS1 Databar (RSS), Code 39, Code 11, MSI-Plessey, etc. 2D: QR Code, Data Matrix, PDF417, Micro QR, Aztec, etc. Supports mobile screen code reading.
Minimum Decodable Size	1D: 5 mil; 2D: 7 mil
Depth of Field	- QR Code (20mil): 10–130mm - Data Matrix (10mil): 20–100mm - PDF417 (7mil): 25–105mm - EAN-13 (13mil): 30–175mm - Code 39 (8mil): 25–145mm - Code 128 (7mil): 25–110mm

3. Electrical Properties

Parameter	Specification
Input Voltage	DC 5V $\pm$ 10%
Current	Operating: 350mA; Standby: 130mA
Battery	900mAh lithium-ion battery
Charging Time	Approx. 2 hours
Battery Life	Standby: 5 days; Operating: 12 hours (scanning every 5 seconds)
Feedback	Buzzer + Multi-color LED
Configuration	Manual setup via scan codes

4. Environmental Requirements

Parameter	Operating Range
Operating Temperature	0°C to 50°C
Storage Temperature	-40°C to +60°C
Humidity	5% to 95% RH (Non-condensing)
Ambient Light Tolerance	Max. 5,000 Lux (under fluorescent lighting)
Drop Resistance	Survives 1.5m free fall onto concrete surface

III. Package Contents

- Scanner Unit $\times$ 1
- USB Cable $\times$ 1
- Quick Start Guide $\times$ 1



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