

OPN-3200i

2D CMOS Imager Barcode Scanner



Highlights

- Bluetooth wireless 2D CMOS imager scanner that rapidly scans and decodes 1D and 2D barcodes at 60 Frames Per Second (FPS)
- Antimicrobial coating and disinfectant-ready certified for healthcare environments
- All scanned barcode data is transmitted to a host device through the Bluetooth interface
- Enhanced motion tolerance with improved scanning of curved, wide and poorly printed barcodes
- Highly visible green LED aiming for easy, quick barcode targeting
- Supports barcode scanning off cell phone and LCD screens
- Vibrating function for noisy environments along with a buzzer and a LED indicator
- Communication: Apple MFi, SPP and HID Bluetooth profiles for added flexibility
- Extremely durable: IP42 rating against dust and moisture and survives 5 ft drop to concrete
- Ships with CHG-3201 charging cradle, power supply and hand strap
- Sold separately: OPA-3201 Bluetooth USB dongle and STD-0171 stand
- Backed by a two year warranty



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Product Specifications

MEMORY

RAM: 512KB + 32KB

SRAM: 96KB

FLASH ROM: 1MB

OPERATING INDICATORS

VISUAL: 1 large LED (red/green/blue)

AUDIBLE: Buzzer with adjustable volume (3 levels) and pitch

VIBRATION MOTOR: Adjustable strength (3 levels) and length (3 levels)

OPERATING KEYS

ENTRY OPTIONS: 1 scan trigger

COMMUNICATION

BLUETOOTH: Version 2.1, SPP/HID, output power class 2

POWER

CURRENT CONSUMPTION: 15mA (stand by), max 330mA

BATTERY: Lithiumion 3.7V 1100mAh

OPERATING TIME STAND BY: Approximately 72 hours (with wireless connection)

READING: Approximately 24 hours (1 scan / 5 sec)

CHARGING METHOD: Separate cradle CHG-3201

BATTERY CHARGING TIME: Ca. 3 hours (when charged with power supply)

2D IMAGER OPTICS

LIGHT SOURCE: Aiming laser diode, illumination LEDs

SCAN METHOD: CMOS area sensor, 752 x 480 pixels, gray scale

SCAN RATE: Up to 60 fps (excl. focusing)

IMAGE FORMAT: Bitmap, JPEG

READING PITCH ANGLE: -50 to 0°, 0 to +50°

READING SKEW ANGLE: -50 to 0°, 0 to +50°

READING TILT ANGLE: 180°

MINIMUM RESOLUTION AT PCS 0.9: 3.94 mil (0.1 mm)

MINIMUM PCS VALUE: 0.20

FIELD OF VIEW: Horizontal 40°, Vertical 26°

DEPTH OF FIELD AT CODE 39:

5 mil (0.127 mm) 2.36 - 3.74 in (60 - 95 mm)

10 mil (0.254 mm) 1.77 - 7.28 in (45 - 185 mm)

208 mil (0.5 mm) 1.97 - 9.84 in (50 - 250 mm)

DEPTH OF FIELD AT QR CODE:

6.65 mil (0.169 mm) 2.76 - 3.74 in (70 - 95 mm)

10 mil (0.254 mm) 1.38 - 6.10 in (35 - 155 mm)

SUPPORTED SYMBOLOGIES

BARCODE (1D): JAN/UPC/EAN incl. add on, Codabar/NW-7, Code 11, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 DataBar (RSS), IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISSN -ISMN, Matrix 2of5, MSI/ Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey

BARCODE (2D): Aztec Code, Aztec Runes, Chinese Sensible code, Codablock F, Composite codes, Data Matrix (ECC200/ECO-140), Maxi Code (mode 2-5), MicroPDF417, Micro QR Code, PDF417, QR code

BARCODE (POSTAL CODES): Chinese Post, Intelligent Mail Barcode, Korean Postal Authority code, POSTNET

DURABILITY

TEMPERATURE:

Operation: 32 to 122 °F (-0 to 50 °C)

Storage: -14 to 140 °F (-20 to 60 °C)

HUMIDITY:

Operation: 20 - 85% (non-condensing)

Storage: 20 - 85% (non-condensing)

AMBIENT LIGHT IMMUNITY:

Fluorescent: 10,000 lx max,

Direct sun: 100,000 lx max,

Incandescent 10,000 lx max

DROP TEST: 5 ft (1.5 m) drop onto concrete surface

VIBRATION TEST: 10 - 100 Hz with 2G for 1 hour

PROTECTION RATE: IP42

PHYSICAL

DIMENSIONS (WXHXD): 4.44 x 5.19 x 2.20 in (113 x 132 x 56 mm) Ca. 4.5 oz (132 g) (incl. battery) Case: ABS, White

REGULATORY AND SAFETY

PRODUCT COMPLIANCE: CE, FCC, VCCI, MFi, RoHS, IEC 62471, IEC 60950-1

ENCLOSED ITEMS

CHG-3201 Charging cradle, power supply and hand strap

SOLD SEPARATELY

CHG-3201: Charging cradle

OPA-3201: Bluetooth USB dongle

STD-0171: Stand



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