

# PX-20

## 2D Data Collector

### HIGHLIGHTS

High performance scanning

Bluetooth 2.1

Ultra compact

Programmable

1,8 meter drop resistant

IP 54

Scale 100%



# PX-20

## Basic product specifications

### OPERATION

**CPU:** RX62N 32-bit MCU **O/S:** Proprietary **SOFTWARE:** Multiple applications available (also programmable in C-language. Free software development kit with free RX compiler) **RTC:** Supports year, month, day, hour, minute, second (leap year supported)

### MEMORY

**FLASHROM:** 512 kB **RAM:** 96 kB **EXTERNAL FLASHROM:** 1024 kB

### OPERATING INDICATORS

**VISUAL:** 1 LED (red/green/blue) **NON-VISUAL:** Buzzer

### OPERATING KEYS

**ENTRY OPTIONS:** 2 keys total, 1 function key, 1 scan key

### COMMUNICATION

**USB:** MicroUSB, VCP **BLUETOOTH:** Ver. 2.1, SPP, HID, SSP, 1 to 1 connection, master / slave mode, authentication and encryption

### POWER

**OPERATING TIME:** 20 hours (1 scan / minute incl Bluetooth communication), 35 hours (1 scan / minute, Bluetooth not activated) **CHARGING METHOD:** Enclosed USB cable

### 2D IMAGER OPTICS

**LIGHT SOURCE:** Green aiming LED, 2 illumination red LEDs **SCAN METHOD:** CMOS area sensor, 752 x 480 pixels **SCAN RATE:** Up to 60 fps **READING PITCH ANGLE:** -50 to 0°, 0 to +50° **READING SKEW ANGLE:** -50 to 0°, 0 to +50° **READING TILT ANGLE:** 360° **FOCAL DISTANCE:** 130 mm / 5.12 in from front **CURVATURE:** R>20 mm **MIN. RESOLUTION AT PCS 0.9:** 0.127 mm / 5 mil Min. **PCS VALUE:** 0.30 **FIELD OF VIEW:** Horizontal 40.6°, Vertical 26.4° **DEPTH OF FIELD:** At Code 39, 90 - 125 mm / 0.30 - 0.41 in (0.127 mm / 5 mil), 55 - 200 mm / 0.18 - 0.66 in (0.254 mm / 10 mil), \* - 300 mm / \* - 0.98 in (0.508 mm / 20 mil) **DEPTH OF FIELD:** At QR Code, 95 - 120 mm / 3.74 - 4.72 in (0.212 mm / 8.4 mil), 60 - 200 mm / 2.36 - 7.87 in (0.381 mm / 15 mil) \*  
The depth of field depends on the view angle and symbol length

### SUPPORTED SYMBOLOGIES

**BARCODE (1D):** UPC-A, UPC-A Add-on, UPC-E, UPC-E Add-on, EAN-13, EAN-13 Addon, EAN-8, EAN-8 Add-on, JAN-8, JAN-13, Code 39, Tri-Optic, Codabar (NW-7), Industrial 2 of 5, Interleaved 2 of 5, S-Code, IATA, Code 93, Code 128, MSI/Plessey, UK/Plessey, TELEPEN, Matrix 2of5, Code 11, GS1 DataBar, GS1 DataBar Limited, GS1 DataBar Expanded, Composite GS1-DataBar, Composite GS1-128, Composite EAN, Composite UPC **POSTAL CODE:** Chinese Post, Korean Postal Authority code **2D CODE:** PDF417, MicroPDF417, Codablock F, QR Code, Micro QR Code, DataMatrix (ECC 0 - 140 / ECC 200), MaxiCode (Modes 2 to 5), Aztec Code, Chinese Sensible Code

### DURABILITY

**TEMPERATURE IN OPERATION:** -10 to 50 °C / 14 to 122 °F **TEMPERATURE IN STORAGE:** -20 to 60 °C / -4 to 140 °F **HUMIDITY IN OPERATION:** 20 - 85% (noncondensing) **HUMIDITY IN 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:** 1.8 m / 6 ft drop onto concrete surface **PROTECTION RATE:** IP 54

### PHYSICAL

**DIMENSIONS (W X H X D):** 34 x 71 x 15 mm / 1.34 x 2.8 x 0.59 in **WEIGHT BODY:** Ca. 40 g / 1.4 oz (incl. battery) **CASE:** ABS, Black

### REGULATORY & SAFETY

**PRODUCT COMPLIANCE:** CE, FCC, VCCI, RoHS, JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II, IEC62471, EN60950-1, IEC60950-1, EN55022, EN55024

### ENCLOSED ITEMS

USB cable, Neck strap

