PX20 2D data collector

High performance scanning

Bluetooth 2.1

Ultra compact

Programmable

IP 54

1,8 meter drop resistant

SCALE 1:1

OPTICON

PX20

> 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 Add-on, 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% (non-condensing) **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