ERROR PROOF®
FREEDOM Technologies Corporation

"We Eliminate Human Error on the Shop Floor"

Announces the Symbol DS3478 DPM/UID Bluetooth Wireless Handheld Imager!

Reads *All* Bar Codes *and* Direct Part Marks (DPM/UID) Automatically!

The all new DS3478 DPM Series Bluetooth Wireless industrial DPM/UID readers from Symbol Technologies use digital signal processing (DSP) CCD imaging technology to accurately **read laser, dot peen marked, chemical etch and other types of direct part markings at distances from 1" to 12" or more.** In addition the DS3478 reads all types of two-dimensional (2D) and one-dimensional (1D) printed bar codes automatically.

A Non Contact DPM/UID High Performance Reader with Variable Focus!

The DS3478 DPM comes equipped with newly designed charge-coupled device (CCD) image sensor and special direct part mark reading software, which allow it to more accurately capture and process DPM at speeds, angles and distances never before seen in a DPM/UID reader. With Symbol's patented variable focus technology, you are able to **read DPM at ranges from 1" to over 12" automatically without refocusing.** In addition, the DS3478 DPM's omni-directional reading functionality lets operators quickly capture **both DPM/UID marks and bar codes from any angle, eliminating the need to read DPM/UID straight on.** The DS3478 DPM has the widest working range of any DPM Reader in its class. Its smart focus technology, unique to Symbol, allows you to read DPM/UID marks and bar codes regardless of the size or density of the code from a variety of distances automatically. This means that this single device can work well for all your DPM/UID and barcode scanning needs.

Reads Very Low Contrast and Poorly Marked DPM/UID With Ease!

Because the DS3478 DPM uses Digital Signal Processing (DSP) CCD technology instead of cameras to read DPM/UID marks, the DS3478 DPM can easily distinguish and read very low contrast or poorly marked DPM/UID marks with ease. No other camera based DPM reader on the market today can make that claim! In addition the DS3478 DPM can read DPM/UID marks as tiny as 4 mil to more than 12 inches or more in size. Because of Symbol's extensive bar code reading knowledge acquired from years of being the world's largest manufacturer of bar code reading devices, the DS3478 DPM can **read pin marked DPM/UID marks easily from angles as steep as 80 degree tilt away from perpendicular!** Other camera based imagers can only read at a 7 degree tilt.

Best of all, by using DSP technology to read DPM/UID marks on the DS3478 DPM, we are able to offer a reader that is priced significantly less than our competition while providing much higher performance on all UID/DPM marks.

Freedom to be mobile without cables!

The DS3478 communicates to host devices via Bluetooth Wireless communications instead of a tethered cable giving the ability to send data at distances of up to 330' away from radio/charger cradle.

DS3478 DPM Bluetooth Wireless Handheld Reader Specification Highlights

Physical Characteristics	
Dimensions	7.34 in. H x 4.82 in. W x 2.93 in. D 18.65 cm H x 12.25 cm W x 7.43 cm D
Weight (without cable)	12.56 oz./356 gm
Input Voltage	5 volts +/- 10%
Operating Current	250mA (average)
Power Sources	Battery:
Color	Twilight Black/Yellow
Performance Characteristics	
Light Source	650 nm visible laser diode
Resolution	640 x 480
Minimum Element Width	5 mil/0.127 mm
Nominal Working Distance	From 1 in./ 2.5 cm to 14 in. /35 cm on 100% UPC/EAN symbols
Print Contrast	15% minimum reflective difference or less
Roll (Tilt) [1]	+/- 180 degrees from normal
Pitch [2]	+/- 60 degrees from normal
Skew (Yaw) [3]	+/- 50 degrees from normal
Decoding Capability	
1D Codes	UPC.EAN, UPC.EAN with Supplementals, UCC.EAN 128, JAN 8 & 13, Code 39, Code 39 Full ASCII, Code 39 Trioptic, Code 128, Code 128 Full ASCII, Codabar (NW7), Interleaved 2 of 5, Discrete 2 of 5, Code 93, MSI, Code 11, Code 32, Bookland EAN, IATA, UCC/EAN RSS and RSS variants
2D Codes	Direct Part Marking (DPM/UID) PDF417, microPDF417, MaxiCode, DataMatrix (ECC 2000), Composite Codes, QR Code
Postal Codes	U.S. Postnet, U.S. Planet, U.K. Postal, Japan Postal, Australian Postal, Dutch Postal
Communications	Wireless Bluetooth communications to cradle connecting to host via RS232 or Keyboard Wedge