

# LOCUS

*Ultrasound imaging*

**THE WORLD'S FIRST  
NON-CONTRAST DATA MATRIX  
(2D BARCODE) READER**

- Read contaminated codes
- Read discolored codes
- Read intrusive markings  
Dot Peen, Laser Marking,  
Micro-Cutting etc.
- Read non-intrusive markings  
Bonding, Stencil,  
Thin-Film, Deposition,  
Embossed.
- Read through paint



### Product Description

The LOCUS (LOW Cost UltraSound) Data Matrix reader features unique possibilities for reading and decoding of hidden direct marked Data Matrix codes. Through advanced signal processing, the reader adaptively compensates for different thickness of cover layer (paint, dirt, contamination etc) and generates real-time ultrasound images of hidden and visible codes. The images are sent via USB and displayed and decoded on a PC or PDA.

The PC/PDA user interface also provides user configurable parameters to tune settings for image optimization.

The LOCUS is a hand-held contact reader targeted at robust DMx marking where cradle to grave traceability is the need, and the parts are undergoing harsh treatment during the product's life (Defense, Aerospace and Automotive industries). The DolphiScan high-resolution transducer design provides fast and secure decoding under conditions where optical readers are not suitable.

### Product Specifications

Decode capability	2D Data Matrix of maximum 30 x 30 mm / 1.2" x 1.2".
Element size	→0.5 mm / 0.02" depending on material
Marking methods	Dot peen, milling, drilling, mechanical and laser cut, engraving, bonding, stencil, thin-film, deposition, embossed
Dimensions	115 x 170 x 68 mm / 4.5" x 6.7" x 2.7"
Weight	0.520 kg / 1.1 lbs
Power	Re-chargeable Li-ion battery, charged via USB or external cable
Communication	USB 1.1 / 2.0
Operating temperature	0° to 40° C / 32° to 104° F
Storage temperature	-20° to 65° C / -4° to 149° F
Shock	Multiple drops 1 m / 39"
Ingress Protection	IP54 (Protection for dust and splashing water from all sides)
EMC	EN 61326:1997+A1:1998+A2:2000+A3:2003 / FCC Subpart 15
Electrical safety	EN/IEC 61010-1:2001
SW	GUI on PC or PDA for display and decode

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