InData Systems™

LDS9500
Hand Held Portable Terminal

9500LDS with UV Optic

Description

The LDS9500 is a portable terminal, designed as a joint effort between engineering groups at InData Systems and Hand Held Products – a leader in imaging technologies, for reading and decoding small-scale etched, UV Fluorescing or embossed two dimensional (2D) Matrix symbologies. The Patented LDS-V2 (Light Delivery System) aims the light from the scanner to the precise area the light is needed and at an angle at which specular reflection is reduced considerably. This provides an optimal contrast ratio on etched and embossed symbologies and relates to achieving quicker, more successful bar code decoding. The Patented M3 optic is designed to take etched marks on shiny or curved surfaces and use the shininess to make a virtual white background with a black bar code. Our UV optics are designed to read covert, fluorescing bar codes.

Designed to optimally read and decode exceptionally small Datamatrix bar codes (the code selected as the ATA Spec2000[2] and EIA standard for small parts marking), the 9500LDS is the terminal of choice for a wide range of applications. Because it is both difficult and costly to place a label on small electrical, medical instruments or aircraft components, the small Datamatrix codes are many times applied directly to the surface of the part itself by laser etching, chemical etching or use of the ink jet applied paints. This many times leads to low contrast ratios, and bar codes on irregular surfaces. Both of these factors lead to bar codes that are not easily decoded. The 9500LDS optimizes the readability by concentrating the lighting on the target bar code at a sharp angle and magnifying the codes. The angle at which the light hits the object minimizes the "wash out" effect caused by irregular and shiny surfaces.

Lightweight, balanced and easy to use, the 9500LDS can be used in repetitive, high volume hand scanning operations in even the most demanding environments. The 9500LDS is a Microsoft Pocket PC based device and can be programmed for a wide variety of applications. The 9500LDS can transfer its data easily to all popular PCs. The 9500LDS can be integrated with all types of customer systems via its optional wireless interface. Our optics are available on tethered and cordless imaging scanners such as the LDS4600 and LDS4620 as well.

Features / Benefits

Features	Benefits
2D Image Reader	Handheld portable terminal for reading and decoding etched 2D symbologies.
Supports All Popular 1D & 2D Symbologies	9500LDS supports all DataMatrix, QR Code, Aztec and Micro-PDF417 barcodes. It is specially designed to read ultra small etched or embossed matrix bar codes and OCR fonts. Additional symbologies may be added as emerging codes are approved by AIM.
Portable Terminal	Opens up new 2D bar code and image capture possibilities in portable applications.
Omni-Directional 1D & 2D Scanning	The imaging technology basis for the 9500LDS means it can offer omni-directional scanning which greatly simplifying operator training and increasing productivity.
Intuitive scanning	The 9500LDS is a near contact scanner. Its aiming guide or tips of the optics help the user to immediately reason how to line up the bar code with the scanner between the two light pipes or guides.

9500LDS-V2

The Electronics Industry Association (EIA) is an industry trade association of key US electronics manufacturers (for example, Intel, Motorola, Texas Instruments)
[2] The Air Transport Association (ATA) is an industry trade association of many of the aircraft manufacturers setting standards for their industry – one being SPEC2000.

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9500LDS Technical Specifications

Specifications

Performance:

Focal Point:	Contact - .2 inches from end of Light Pipe
Working Range:	Barcodes with a minimum 4.75 mil (.1mm) narrow element
Rotational Sensitivity:	360°
Field of view:	0.35 inches/ 0.9 cm
Ambient Light:	Total darkness to 1,000 lux
Aiming:	Contact, between light pipes or at end of shroud

Symbologies:

Matrix:	DataMatrix (ECC 000, 050, 080,100,140, 200), QR Code, Micro-PDF417 and Aztec
Linear:	Code 39, Code 128, I 2 of 5, Codabar, and most other very small 1D codes.
OCR Fonts:	OCR-A, OCR-B, OCR-Semi

Interfaces and Options:

Base and cable Interfaces:	Charging USB and Serial RS-232 – Future Ethernet interface
Options:	Interchangeable Optics, Wireless 802.11b, Bluetooth interface, Image Capture

Mechanical/Electrical:

Dimensions:

Length:	11.5 in. (292.1 cm)
Height:	1.66 in (35.6) [with support legs = 2.8 in. (71.1 cm)]
Width:	3.45 in. (87.6 cm)
Weight:	24 oz. (680 g)
Power Requirements:	7.4V, 14.8 Watt removable, rechargeable lithium-ion battery

Environmental:

Temperature -

Operating:	-10^{0}C to 50^{0}C
Storage:	-20^{0}C to +70^{0}C
Humidity:	95% RH, non-condensing at 50^{0}C
ESD:	Functional after 15KV discharge
Environmental Resistance:	IP64 for moisture and particle resistance
Agency:	FCC Class B, CE

9500LDS-interchangeable

Due to InData Systems continuing product improvement programs, specifications and features herein are subject to change without notice

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