

UID COMPLIANCE VERIFIER LDP

LDP Compliance Verifier

The UID Compliance Verifier LDP (for labels and rating plates) make it possible to meet the specifications in MIL-STD-130 and DFAR 252.211-7003. The UID Compliance Verifier LDP has been specially developed for checking and verifying UID Data Matrix markings on labels and rating plates.



UID Verifier LDP: At a Glance

- Quality control for Data Matrix marking
 - AIM DPM verification capabilities
 - One button operation
- Full Compliance: DoD and AIM unique identification standards and requirements.
 - Powerful: Determine whether the data elements in a Data Matrix mark are correctly formatted and linked on any part and any marking technology.
 - Integrated Design: Provides camera, lighting and fixed optics.

For more information on this product, visit www.microscan.com.

DPM Verifier LDP: Available Codes

2D Symbols 

Standalone Unit

The UID Compliance Verifier, LDP (for labels and rating plates) comprises a standalone desktop unit that is connected to a host PC. The desktop unit contains the permanently installed lighting and optical system required for testing the string and for grading the data matrix print quality. It is suitable for flat labels and nameplates that are thinner than 3.17 mm (1/8"). The overall size of the code is not permitted to exceed 15 mm x 15 mm (0.6" x 0.6").

All In One

The UID Compliance Verifier, LDP (for labels and rating plates) comprises a standalone desktop unit that is connected to a host PC. The desktop unit contains the permanently installed lighting and optical system required for testing the string and for grading the data matrix print quality. It is suitable for flat labels and nameplates that are thinner than 3.17 mm (1/8"). The overall size of the code is not permitted to exceed 15 mm x 15 mm (0.6" x 0.6").

Application Examples

- UID is a guideline that all suppliers have to comply with who supply the U.S. Department of Defense (DoD).
- Unique Identification (UID) verification and validation according to MIL-STD-130.
- Verification of UID Data Matrix labels and rating plates.

UID COMPLIANCE VERIFIER LDP SPECIFICATIONS AND OPTIONS

FUNCTIONS

- Complies with DoD UID regulations MIL-STD-130 and the new AIM DPM-1-2006 Quality Guideline.
- Supplies precise Data Matrix verification for UID labels and rating plates up to 1/8" thick (3.175 mm).
- Integrated camera with fixed lens.
- Integrated lighting with "Direct On Axis" (90°) 640 nm light.
- Simple "Plug and Play" setup, with power cable and Ethernet cable.
- Single-button calibration with NIST-trackable calibration target.
- Desktop unit, no additional stand required.
- GUI with "Auto-photometry", provides live videos.
- Report function for quality assurance and DCMA auditable results.
- DoD safety function, image captured at a distance for safety reasons.
- Excellent presentation of details, eliminates subjective interpretations.

DOD COMPLIANCE

Many goods destined for the U.S. Department of Defense (DoD) must carry a unique identification (UID) code. These regulations concern the use of data matrix codes on many pieces of equipment procured by the DoD. UID inspection systems (products for UID compliance verification) enable the U.S. Department of Defense and the DoD suppliers and subcontractors to meet the regulations MIL-STD-130 and DFAR 252.211-7003 as follows:

- Validation of the UID. UID inspection systems enable you to determine whether the data elements in a data matrix marking are correctly formatted and linked, and that a valid UID code is created.
- Verification of the marking quality MIL-STD-130 prescribes that the quality of each machine-readable identification is verified prior to delivery to the government. The following products provide the verification tools, create reports and insure that the UID fully complies with the corresponding standards.

MAXIMUM DATA MATRIX SIZE

The maximum supported Data Matrix size is 0.6 inches (15 mm). This size allows either:

- A Data Matrix of 24-row by 24-column using X dimension of 25 mil (0.025 inches) element size
- A Data Matrix of higher density using X dimension of 7.5 mil (0.0075 inches) element size

BASE CONFIGURATION

The delivered UID Compliance Verifier, LDP consists of the following components:

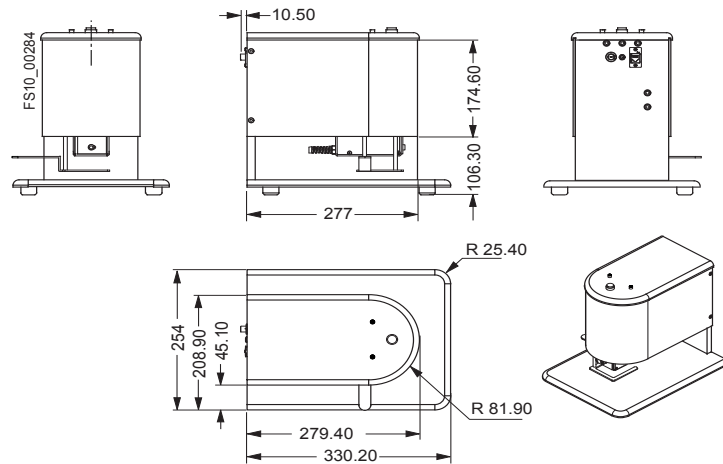
- UID LDP verifier stand unit
- UID LDP power supply
- Ethernet cable
- UID NIST calibration card
- UID compliance test card
- UID Checker Software™
- Ethernet cross link adapter
- Serial communications cable
- Getting Started Guide

MINIMUM PC REQUIREMENTS

The UID Compliance Verifier, DPM requires you to supply a host PC running Microsoft Windows 2000 or Windows XP with:

- At least a 2 GHz CPU
- At least 512 MB RAM
- Administrator Privileges
- CD-ROM drive
- At least 100 MB of available hard disk space
- A 10/100 MB Network (Ethernet) interface
- Display capable of displaying at least 1024 by 768 pixels, true colors.

Type	UID Compliance Verifier, LDP
Image field	25.4 mm x 19.05 mm (1.0" x 0.75")
Verifiable markings	ISO 16022, ISO 15415, AS9132 Laser, AS9132 Dot Peen, AS9132 Electro-Chemical Etch, MIL-STD-130M Enhanced ISO 15415, AIM DPM-1-2006 Quality Guideline
Greatest possible thickness of the label/nameplate	0.125" (3.175 mm)
Depth of focus	0.125" (3.175 mm)
Smallest element size	0.0075" (0.19 mm)
Current requirement	AC adapter for 100 ... 250 VAC, 0.05 A 50/60 Hz input; 24 V with 500 mA output
Networking options	Ethernet for standard operation, RS232 baudrates from 600 bit/s to 115.3 Kbits/s for maintenance purposes
Operating temperature	0 ... 40 °C (32 ... 104 °F)
Lighting	Embedded Class I LED Red LED: 640 nm Diffuse perpendicular (90°) light
Laser target beam	Class II laser to IEC 60825-1
Humidity	< 95 %, non-condensing
Electrical/mechanical safety	EN 61010-1: 2002
Laser safety	EN 60825-1 1993 Amendment 2 2001-01
Image field	25.4 mm x 19.05 mm (1.0" x 0.75")



SAFETY CERTIFICATIONS DESIGNED FOR
FCC, UL/cUL, CE, CB



ISO 9001:2000
Certified QMS

ROHS/WEEE COMPLIANT

ISO CERTIFICATION
Issued by TÜV USA Inc, Member of TÜV NORD
Group, Cert No. 06-1080

©2008 Microscan Systems, Inc. Draft. 09/08
Read Range and other performance data is determined using high quality Grade A symbols per ISO/IEC 15415 and ISO/IEC 15416 in a 25°C environment. For application-specific Read Range results, testing should be performed with symbols used in the actual application. Microscan Applications Engineering is available to assist with evaluations. Results may vary depending on symbol quality. **Warranty**—One year limited warranty on parts and labor. Extended warranty available.

MICROSCAN®

Microscan Systems, Inc.
Tel 425 226 5700 / 800 251 7711
Fax 425 226 8250

Microscan Europe
Tel 31 172 423360 / Fax 31 172 423366
Microscan Asia Pacific R.O.
Tel 65 6846 1214 / Fax 65 6846 4641

Part of a full range of sales tools available from our website:

www.microscan.com
E-mail: info@microscan.com
Tech Support: helpdesk@microscan.com

VERIFICATION CAPABILITIES

The UID validation and verification checks the marking according to the following standards:
AIM DPM-1-2006, ISO 16022, ISO 15415, ISO 15434, ISO 15418, ISO 15426-2, SAE AS9132 Laser, SAE AS9132 Dot Peen, SAE AS9132 Electro-Chemical Etch, DFAR 252.211-7003, MIL-STD-130L, MIL-STD-130L Chg.1, MIL-STD-130M, MIL-STD-130M Change 1, Guide to Uniquely Marking Items Version 1.4, Guide to Uniquely Marking Items Version 1.5, Guide to Uniquely Marking Items Version 1.6, ATA SPEC200 Chapter 9 and ANSI MH10.

INTEGRATION

The UID Compliance Verifier, LDP (for labels and rating plates) connected to the host PC over an Ethernet connection. Direct connection is possible with the cross-over adapter included in the scope of supply. The camera can be connected via DHCP to a company LAN or using a stationary IP address. An RS232 connection can be used to configure the camera for Ethernet.