

UID COMPLIANCE VERIFIER DPM

DPM Compliance Verifier



The UID Compliance Verifier, DPM (for direct part marking) allow you to comply with the U.S. Department of Defense (DoD) mandated Unique Identification (UID) policy in accordance with MIL-STD-130 and DFAR 252.211-7003. The UID Compliance Verifier, DPM is designed for verifying and validating UID Data Matrix marks.

Standalone Unit

The UID Compliance Verifier, DPM (for direct part marking) consists of a standalone desktop unit that is connected to a host PC. The unit is designed for UID Data Matrix direct part marks with varying thickness and shapes. It provides all the lighting options specified in AIM DPM-1-2006: Medium Angle Four Direction (45Q), Low Angle Four Direction (30Q), Low Angle Two Direction (30T), Low Angle Single Direction (30S), Diffuse Perpendicular (90), and Diffuse Off Axis DOME (D).

All In One

The all in one unit contains the appropriate fixed lighting and lensing necessary to comply with the required string checking and Data Matrix quality grading. The UID Compliance Verifier, DPM can be used as a standalone desktop unit,

portable verifier or mounted to an optional stand. The maximum Data Matrix size for this system is 20 mm x 20 mm (0.8" x 0.8").

Application Examples

- Unique Identification (UID) is a requirement on both the U.S. Department of Defense Agencies who need to UID mark legacy equipment and supplier to the U.S. Department of Defense.
- UID Verification and Validation in accordance with MIL-STD-130.
- UID Data Matrix marks for any marking technology (laser, dot peen, chem. etch, photo etch, thermal print, others).

UID Verifier DPM: 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 DPM: Available Codes

2D Symbols 

UID COMPLIANCE VERIFIER DPM SPECIFICATIONS AND OPTIONS

FUNCTIONS

- Fully compliant with DoD UID Requirements MIL-STD-130 and new AIM DPM-1-2006 Quality Guideline.
- Provides precise Data Matrix verification for any part and any marking technology.
- Integrated camera with fixed optics.
- Single button operation will cycle through all lighting options for best overall grade.
- Simple plug and play set up, power and Ethernet cable.
- One button calibration with NIST traceable calibration target.
- Desk top, hand held, or optional stand operation.
- New GUI with auto-photometry "Live Video" mode.
- New reporting features with Quality Assurance and DCMA auditable results.
- New DoD security feature, removes image capture for Secure Facility operation.
- Superior report detail and presentation, eliminates subjective interpretation.

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 Data Matrix size that can be supported is 0.8 inches (20 mm). This size allows a 32-row by 32-column Data Matrix using X dimension of 25 mil (0.025 inches) or a Data Matrix of higher density with X dimension as small as .75 mil (0.0075 inches). To read Data Matrix labels and data plates up to 1/8 inches (3.2mm), the UID-DPM can be placed on the four standard feet that measure 0.875 inches (22mm) long.

BASE CONFIGURATION

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

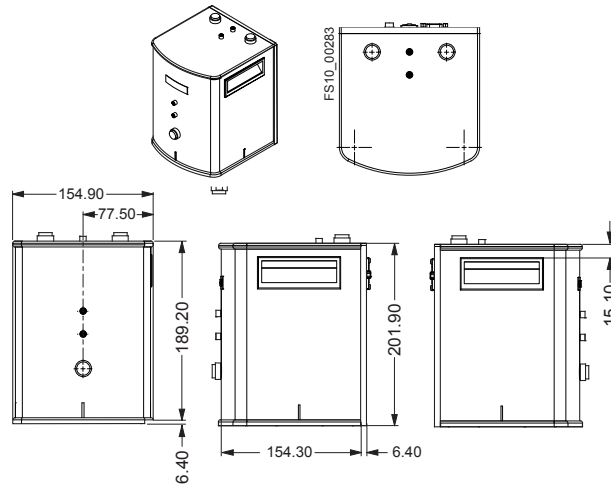
- UID DPM Verifier with Multifunction Illumination
- UID DPM Presentation Feet
- UID DPM Power Supply
- Ethernet network cable
- UID NIST Calibration Card
- UID Compliance Test Card
- UID Checker Software™
- Ethernet Cross Link Adapter
- Serial Communications Cable
- Getting Started Guide

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, DPM
Image field	30.2 mm x 21.8 mm (1.19" x 0.86")
Test functions	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)
Minimum size of elements	0.0075" (0.19 mm)
Performance requirements	AC adapter 100 to 240 VAC, 1.6 A 50/60 Hz input, 24 V with 1.5 A output
Interfaces	Ethernet for standard operation, RS232 baudrates from 600 baud to 115.2 Kbaud for maintenance purposes
Operating temperature	0 ... 40 °C (32 ... 104 °F)
Lighting	AIM DPM-1-2006 Quality Guideline Embedded Class I LED, Red LED: 640 nm Light settings: Diffuse Perpendicular 90 Degrees (90) Dome (D) Medium Angle 45 Degrees (45Q) Low Angle 30 Degrees (30Q, 30T and 30S)
Humidity	Up to 95 %, non-condensing
Electrical/mechanical safety	EN 61010-1: 2002
Laser safety	EN 60825-1 1993 Amendment 2 2001-01



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, DPM (for direct part marking) is connected to a host PC via an Ethernet connection. A direct connection is possible with the included cross-over adapter. The camera is capable of connecting to a company LAN via DHCP or a static IP. An RS232 connection is available to configure the camera for Ethernet connectivity.

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

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 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.

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