

UID Compliance Verifier, DPM (for Direct Part Marks)
UID Compliance Verifier, LDP (for Labels and Data Plates)

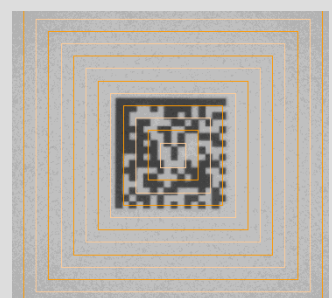
Verifying and validating UID Data Matrix marks



Brochure – September 2007

UID - unique identification

Fully MIL-STD-130 and AIM DPM-1-2006 compliant



SIEMENS

UID Compliance Verifiers

Verifying and validating UID Data Matrix marks

Siemens UID Compliance Verifier, DPM (for direct part marks) and the **UID Compliance Verifier, LDP** (for labels and data plates) 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 UII Data Matrix marks created with any direct part marking technology, including laser, dot peen, chemical etch and others. The UID Compliance Verifier, LDP is designed specifically for verifying and validating labels and data plates containing UII Data Matrix marks.

UID verification and validation is performed according to the following standards: AIM DPM-1-2006, ISO/IEC 16022, ISO/IEC 15415, ISO/IEC 15434, ISO/IEC 15418, SAE AS9132, DFAR 252.211-7003, MIL-STD-130L, MIL-STD-130L Change 1, MIL-STD-130M, MIL-STD-130M Change 1, Guide to Uniquely Marking Items Version 1.4, 1.5, 1.6, ATA SPEC200 Chapter 9 and ANSI MH10. Built in Dome light provides the correct illumination for curved parts, and is an expected illumination requirement in the soon to be released MIL-STD-130N.

Design

The **UID Compliance Verifier, DPM** (for direct part marks) consists of a standalone desktop unit that is connected to a host PC. The unit is designed for UII Data Matrix direct part marks with a variety of size 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). This all in one unit, contains the appropriate fixed lighting and lens necessary to comply with the required data syntax 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.



Highlights

- Allows full compliance to Unique Identification standards and requirements.
- Fully integrated design provides smart camera, lighting and fixed optics.
- Portable or Desktop Operation.
- One button verification and validation.
- Ten (10) built in illumination settings;
 - 90° DOAL
 - D - Diffuse Off Axis Dome
 - 45° Q (Quadrant)
 - 30° Q (Quadrant)
 - 30° T (Twin - North/South and East/West)
 - 30° S (Single - North, South, East, West)
- Large field of view (FOV) eliminates need to purchase multiple verifiers for different Data Matrix sizes.
- Secure Mode (without image capture) for operation in DoD Secure Facilities.
- Backward compatible to all earlier MIL-STD-130 requirements.
- PNR/ 30P/240 non UID verification and validation.
- NIST traceable Calibration
- Provides concise, detailed Reporting and Archive of UID verification results for backup and compliance audits.
- User-selectable data storage format, including SQL compatible or Excel.

The **UID Compliance Verifier, LDP** (for labels and data plates) consists of a standalone desktop unit that is connected to a host PC. The unit contains the appropriate fixed lighting and lens necessary to complete the required data syntax string checking and Data Matrix print quality grading. The UID Compliance Verifier, LDP is for labels and data plates up to 3,17 mm (1/8") in thickness.



UID Compliance Verifier – applications and functionality

Functionality

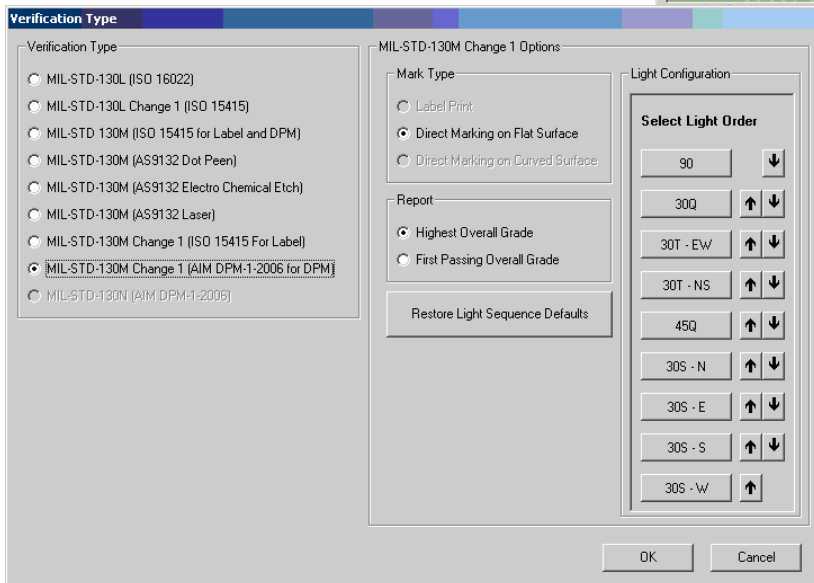
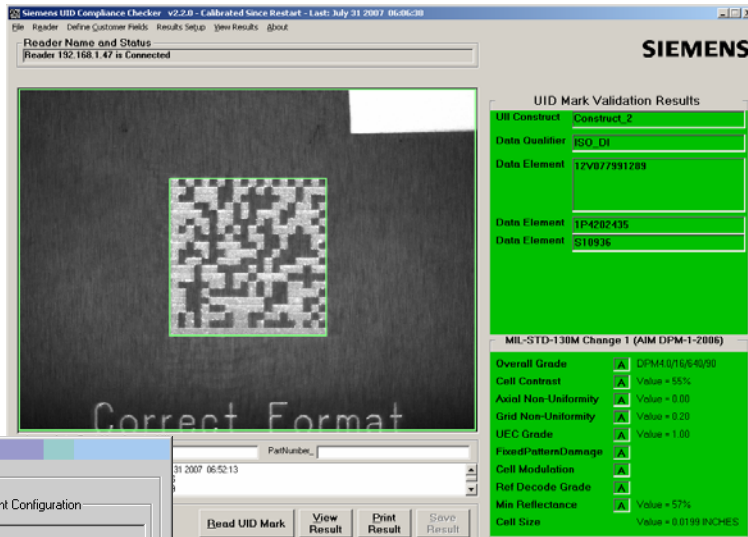
- Compliant with DoD UID Requirements MIL-STD-130 and new AIM DPM-1-2006 Quality Guideline.
- **UID Compliance Verifier, LDP:**
Provides precise Data Matrix verification for UID labels and data plates up to 1/8" thick.
- **UID Compliance Verifier, DPM:**
Provides precise Data Matrix verification for any part and marking technology.
- Integrated smart camera with fixed optics.
- Simple plug and play set up (power and Ethernet cable).
- One button calibration with NIST traceable calibration target
- GUI with autophotometry “Live Video” mode.
- Reporting features with Quality Assurance and repeatable/auditable results.
- DoD security feature, removes image capture for Secure Facility operation.
- Superior report detail and presentation, eliminates subjective interpretation.
- User selectable lighting sequence prioritization for fast throughput cycles in production environments.
- PNR/30P/240 non UID verification and validation.

Integration

The **UID Compliance Verifier, DPM** and the **UID Compliance Verifier, LDP** are 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.

Applications

- UID is a required for U.S. Department of Defense Agencies who need to UID mark legacy equipment and suppliers to the U.S. Department of Defense.
- Unique Identification (UID) Verification and Validation in accordance with MIL-STD-130.
- Data Matrix printed label and data plate verification (UID Compliance Verifier, LDP)
- Data Matrix marks for any marking technology - laser, dot peen, chem. etch, photo etch, thermal print, others (UID Compliance Verifier, DPM)



UID Compliance Verifier – technology overview

	UID Compliance Verifier, LDP	UID Compliance Verifier, DPM
Field of view	25.4 mm x 19.05 mm (1.0" x 0.75")	30.2 mm x 21.8 mm (1.19" x 0.86")
Verification capabilities	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	
Maximum Part thickness	0.125" (3.175 mm)	---
Depth of Field	0.125" (3.175 mm)	
Minimum Element Size	0.0075" (0.19 mm)	
Power requirements	AC Adapter 100 to 250 V AC, .05A 50/60 Hz input, 24V at 500 mA output	AC Adapter 100 to 240 V AC, 1.6A 50/60 Hz input, 24V at 1.5A output
Interfaces	Ethernet for normal operation, RS232 for maintenance	
Operating temperature	0°C - 40°C (32 °F - 104 °F)	
Illumination	Embedded Class I LED Red LED: 640 nm Diffuse Perpendicular 90 Degree Lighting	Embedded Class I LED Red LED: 640 nm Illumination Settings: Diffuse Perpendicular 90 Degree (90) Dome (D) Medium Angle 45 Degree (45Q) Low Angle 30 Degree (30Q, 30T, and 30S)
Targeting Laser	Class II Lasers by IEC 60825-1	---
Electrical/mechanical safety	EN 61010-1: 2002	
Laser Safety	EN 60825-1 1993 Amendment 2 2001-01	
Host PC (requirements)	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, Windows 2000 or XP	
Product selection code	6GF3020	

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Brochure order number 6ZB5330-0AV02-0BA0