

Press Release



1653 East Main Street Rochester, NY 14609 U.S.A. Phone: 1.585.482.0300 Fax: 1.585.288.5989 E-mail: info@appliedimage.com

FOR IMMEDIATE RELEASE

Monday, October 02, 2017

APPLIED IMAGE Announces **a NEW Conformance Calibration Standard Test Card for** **ISO IEC Datamatrix and GS1 Datamatrix**

Rochester NY APPLIED IMAGE Inc. is proud to announce the further expansion of our Barcode Verifier Test Card product line to include the new [Conformance Calibration Standard Enhanced Test Card for ISO IEC Datamatrix and GS1 Datamatrix \(p/n: AI-CCS-DM-E\)](#).

CONFORMANCE CALIBRATION STANDARD
ENHANCED TEST CARD
FOR ISO IEC Datamatrix and GS1 Datamatrix



1. SC, ANU, GNU - 4 (A)
X=0.500 mm (0.0197 in)
Grade 4 (A)



2. ANU - 1 (D)
X=0.500 mm (0.0197 in)
Axial Non-uniformity



3. GNU - 1 (D)
X=0.500 mm (0.0197 in)
Grid Non-uniformity



4. SC - 1 (D)
X=0.500 mm (0.0197 in)
Symbol Contrast



5. SC, ANU, GNU - 4 (A)
X=0.200 mm (0.0079 in)
Grade 4 (A)



6. Contrast Uniformity
X=0.360 mm (0.0142 in)
Min. Mod. of any module



7. UEC - 2 (C)
X=0.360 mm (0.0142 in)
Unused Error Correction



8. FPD - 2 (C)
X=0.360 mm (0.0142 in)
Fixed Pattern Damage



9. Contrast Uniformity
X=0.270 mm (0.0106 in)
Min. Mod. of any module



10. ANU - 1 (D)
X=0.200 mm (0.0079 in)
Axial Non-uniformity



11. GNU - 1 (D)
X=0.200 mm (0.0079 in)
Grid Non-uniformity



12. SC - 1 (D)
X=0.200 mm (0.0079 in)
Symbol Contrast

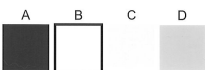
This precision 2D barcode Conformance Calibration Test Card is the only test card to provide ALL of the Primary Reference Symbols specified by ISO 15426-2 for barcode verifiers.

The test card is manufactured, serialized, and individually calibrated utilizing a newly developed, state-of-the-art, high resolution camera-based JUDGE system, meeting the requirements of ISO 15426-2 for primary reference test symbols.

Twelve symbols, sized from 0.5mm to 0.2mm are used so that symbol sizes as specified in Annex A.3.1 can be tested.

SN: DM1-1xxxx Wavelength: 660 nm
Cal.Date: 23-Jul-2017 Syn.Aper: 0.8 X-Dim

#1 Grade 4,0 (A) SC 82.6% R-max 84.6% R-min 2.0% ANU 0.2% GNU 2.1%	#5 Grade 4,0 (A) SC 82.8% R-max 85.0% R-min 2.2% ANU 0.0% GNU 1.6%	#10 Grade 1,0 (D) ANU 10.9% #11 Grade 1,0 (D) GNU 10.9% #12 Grade 1,0 (D) SC 32.0% R-max 33.9% R-min 1.9%
#2 Grade 1,0 (D) ANU 10.9%	#6 Grade 4,0 (A) CU 30.7%	Grey Patches
#3 Grade 1,0 (D) GNU 10.9%	#7 Grade 2,0 (C) UEC 42.9%	A 3.6 %R
#4 Grade 1,0 (D) SC 31.8% R-max 33.8% R-min 2.0%	#8 Grade 2,0 (C) FPD 2.0	B 86.4 %R
	#9 Grade 4,0 (A) CU 30.5%	C 74.1 %R
		D 57.8 %R



DATE ISSUED: _____
This calibration standard is certified for a period of 24 months from first use or 30 months from the calibration date (whichever is longer).

ACCUEGE Technology
NIST TRACEABLE - JUDGE CERTIFIED



See printed report for full details and traceability information

PART NO. AI-CCS-DM-E Rev B.
© 2017, APPLIED IMAGE, INC. ALL RIGHTS RESERVED

For consistency with the seven symbol test card previously available to the industry, symbols 1,2,3,4,6,7,and 8 have the same test characteristics but with some different data content. Symbols 5, 9, 10, 11, and 12 were engineered and added in order to satisfy the full and complete requirements of ISO-15426-2 (A.3 Test Symbols for Matrix symbologies).

APPLIED IMAGE is the only manufacturer of **Bar Code Calibration Standards and 2D Calibration Test Cards** that are made with our proprietary **ACCUEDGE®** manufacturing technology, assuring the highest quality image in the industry. The calibration of each symbol is accomplished using an extremely high resolution camera-based JUDGE system which is NIST Traceable for reflectance and linear dimensions and has at least 10X the repeatability performance of a typical verifier. The calibration result of each symbol is recorded on the test card and on the accompanying Calibration Report. A statement of estimated uncertainty is documented on the Calibration Certificate. Both the Calibration Report and Certificate are included with each test card.

According to Glenn Jackling, President of APPLIED IMAGE, “APPLIED IMAGE is proud of its longstanding leadership in the development of calibration standards for the bar code industry having pioneered the first UPC/EAN Calibrated Conformance Standard Test Card (CCSV-1) in 1997. Our engineers leveraged those years of experience to design and build a new, camera-based JUDGE system specifically for the calibration of these 2D Datamatrix codes. To bring even greater utility to the calibration of bar code verifiers, we have included calibrated reflectance patches and a thicker backing material to ensure greater image stability and flatness.”

The JUDGE system has been used for decades at APPLIED IMAGE as the driving force behind its expansive barcode product line. Since the 1990's Applied Image has been producing barcode standards for the industry's leading producers of barcode verifiers. While most associate barcodes with the familiar UPC codes we encounter daily, APPLIED IMAGE provides calibration standards for all major forms of bar codes. Our online catalog includes calibration standards for 128 symbol, ITF 14, OEM and others. APPLIED IMAGE also supplies

a wide range of custom symbols to the industry's leading scanner and verifier manufacturers. Each is produced with utmost precision and tested for accuracy.

Jackling expanded on the role of the JUDGE, saying, "In order to allow bar code verifier manufacturers and their customers to use a NIST traceable, JUDGE certified calibration standard in the fullest compliance to ISO standards possible across a broader range of symbologies, APPLIED IMAGE is introducing its new Conformance Calibration Standard Enhanced Test Card for ISO IEC Datamatrix and GS1 Datamatrix (p/n: AI-CCS-DM-E)."

About APPLIED IMAGE, Inc.

APPLIED IMAGE Inc., located in Rochester New York, is a world leader in the design and manufacture of precision imaged optical components intended for a wide variety of applications and industries that require NIST traceable standards and/or precision imaged components to test, calibrate, align, control, or measure their optical or photonic systems. In addition to its large catalog of standard products, APPLIED IMAGE specializes in designing and manufacturing custom components, imaged to the strictest of tolerances. Its mission is to provide the highest quality products and customer service which will consistently meet and exceed the expectations of its customers.

For more information, please contact:

Glenn Jackling		Sean Pratt	
President		Digital Marketing Manager	
phone:	(585) 482-0300 ext. 256	phone:	(585) 482-0300 ext. 216
fax:	(585) 288-5889	fax:	(585) 288-5889
e-mail:	GJackling@appliedimage.com	e-mail:	SPratt@appliedimage.com

ADDITIONAL ELECTRONIC or HARD COPY IMAGE available upon request

