



Features of the Verifier:

- DataMatrix verification for process control according to ISO/IEC TR 29158 (AIM DPM 2006-1) and ISO/IEC 15415
- Easy menu-driven software with article management (saving the axis positions, exposure time, etc.)
- Validation of the DataMatrix code content
- Validation of the DataMatrix code geometry (size, number of modules)
- Simple PC connection to the evaluation unit via Ethernet TCP/IP
- Repeatable and reliable results according to ISO/IEC 15426-2
- Logging (PDF) of the verification results with image, individual quality values and defects
- Logging of results in CSV file
- Applicable to a variety of parts especially directly marked parts

Measuring unit:

- High resolution camera system In-Sight 8402 with 1600x1200 pixels
- Flexible controllable illumination units (Dome light with integrated coaxial light and 4 quadrants illumination module 30°)



Controller:

- Connection to camera and illumination
- Connection to the PC and network via RJ45 plug



Technical specifications	
Camera type	In-Sight 8402
Image sensor / resolution	1600x1200 pixels
Image section (optional other)	32mm x 24mm
Min. module size	0.2mm (0.1mm optional)
Ideal distance lower edge of measuring unit to DataMatrix code	40mm
Illumination unit	Dome light with integrated coaxial light and 4 quadrants illumination module 30°
Wavelength of the illumination	630nm (Light color: Red)
Code type	2D DataMatrix (ECC200)
Dimensions measuring unit	360mm x 205mm x 235mm (L x W x H)
Dimensions evaluation unit	160mm x 160mm x 260mm (L x W x H)
Weight measuring unit	3.3kg without cable
Weight evaluation unit	3.0kg
Attachment measuring unit	4 x M6 depth 25
Supply voltage	110V- 230V AC, 50Hz
Power consumption	Max. 5A
Illumination control	M12, 8 pin
Camera control	Ethernet with PoE
Number of network connections TCP/IP, RJ45	2
Number of network connections TCP/IP, RJ45, PoE	1
Operating temperature	0°C to 45°C
Storage temperature	-30°C to 80°C
Humidity during operation and storage	25% to 80% non-condensing
Certifications (CE, UL, FCC)	Yes
Operating system	Windows 7, Windows 10

Delivery:

- Measuring unit with Cognex In-Sight 8402 camera, lens, extension rings for 0.2mm module size
- Controller with network connection cable EU
- Software: Acrobat-Reader, Adam-Modul, Cognex In-Sight Explorer, AIT EasyID-Verifier
- Cable camera to evaluation unit, 2m
- Cable illumination to evaluation unit, 2m
- Calibration card
- Optionally deliverable: PC with screen according to requirements

System requirements for the software

Minimum (applies to PCs connected to a single In-Sight vision system)

- Intel® Celeron® 1000M with 1.8 GHz (or equivalent processor)
- 2 GB available RAM
- 4 GB available hard disk space
- Video card with a resolution of 1280 x 768 at 24-bit color depth.
A DPI display setting of 96 DPI is required
- Network card (100 Mbps minimum) for connection to In-Sight vision systems

Recommended (for PCs connected to up to four In-Sight vision systems)

- Intel® Core™ i7 core CPU with 2,7 GHz (or equivalent processor)
- 4 GB available RAM
- 8 GB available hard disk space
- Video card with a resolution of 1920 x 1080 at 32-bit color depth.
A DPI display setting of 96 DPI is required
- Gigabit network card for connection to In-Sight systems

Ordering informations		
Item no.	Description	Image
111121	AIT EasyID-Verifier Unit .. for easy and fast verification of the quality of DataMatrix codes according to ISO TR 29158 (AIM DPM-1-2006) and ISO 15415. Includes high-resolution Cognex ID system with 1600x1200 pixels. Compact illumination unit consisting of dome, on axis and 4 quadrant illumination LED red. Software for verifying, validating DMC code, operating and logging, controller unit with 2 Ethernet TCP/IP ports, 110V-230VAC, max. 5A	
111157	AIT EasyID Verifier Unit stand, 350x400mm² base plate with hole pattern M6 stand height 400mm. Height adjustable via hand crank. Incl. quick mounting for EasyIDVerifier Unit (Articel 111121)	
111158	AIT EasyID Verifier Unit Transport Case 610x520x350mm³ (LxWxH) for AIT EasyID Verifier Unit (Articel 111121) and Stand (Articel 111157)	