

axicon

THE BARCODE EXPERTS

Axicon 15000 series

Linear and 2D barcode verifier



The Axicon 15000 series barcode verifier is designed to read both linear and two-dimensional matrix barcodes simultaneously. All the symbols seen in its field of view are verified individually, and the user simply selects each barcode in turn to see the specific results.

Linear and 2D barcodes are verified in accordance with the appropriate ISO/IEC standard, with linear barcodes being sampled ten times from top to bottom.

Data Matrix, GS1 DataMatrix, QR Code, GS1 QR Code, EAN/UPC, Code 128, GS1-128 and Laetus Pharmacode symbols can all be verified if they fit within the field of view. Direct part marked Data Matrix and QR-Codes can also be verified. The verifier is designed to be used in three different positions so that even barcodes on awkwardly shaped objects can be easily read. It is powered solely via its USB connection to a PC or laptop.

The record of each verification includes the image of all the codes in the field of view, as well as the reports for each barcode. These verification files can be consecutively numbered or date and time stamped if required for traceability auditing processes. The verifier may be configured to comply with the FDA regulation 21 CFR Part 11.

15200 barcode verifier

Field of view: 60mm x 45mm (2.36" x 1.77")

Smallest recommended linear x-dimension of 0.160mm (6.3 mil)

Smallest recommended 2D x-dimension of 0.240mm (9.4 mil)

15500 barcode verifier

Field of view: 95mm x 70mm (3.75" x 2.75")

Smallest recommended linear x-dimension of 0.240mm (9.4 mil)

Smallest recommended 2D x-dimension of 0.360mm (14.2 mil)

Features

ISO/IEC compliant verification

Free licence software

DPM verification

GS1 data content

USB powered

Three different operating positions



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Software Specifications

Symbologies verified	EAN-8, EAN-13, UPC-A, UPC-E, ITF-14, GS1-128, GS1 DataMatrix, GS1 QR Code, Data Matrix, GS1 Databar, QR Code, Code 39, Code 93, Code 128, Codabar, ITF, MSI Plessey, Laetus Pharmacode, GS1 Databar Composite Code, PDF417.
Analysis performed on linear symbologies	Full ISO/IEC 15416 parameter analysis, average bar gain, check digit validation, data length, nominal bar width (x-dimension), symbol structure, quiet zone validation, wide to narrow ratio.
Analysis performed on 2D symbologies	Full ISO/IEC 15415 parameter analysis (parameters vary according to the symbology). ISO/IEC 29158 analysis DPM for Data Matrix and QR-Codes. Nominal bar width (x-dimension), average module gain.
Data analysis	Data content checker for Application Identifiers with GS1-128, GS1 DataBar, GS1 DataMatrix and GS1 QR Codes. MIL-STD-130N validation
Logging	Scan saving and loading - stores complete details of scan file data. Allows for remote diagnostics and also for increased traceability. Autosaving of scans for audit trail purposes.
Multi-language	English, French, Spanish, Danish, Dutch, German, Russian, Slovenian, Chinese, Japanese, Polish, Italian, Korean, Portuguese and Czech.

Hardware Specifications

Dimensions & Weight	205 x 195 x 141 mm (8"x 7.6" x 5.5") - Cable length 2.5m - Weight - 1.28 Kg (45 oz)
Construction	Plastic housing, CMOS sensor, LED illumination
Power consumption	Current draw 360mA - supplied from USB host.
Aperture reference numbers	03 (15200 only), 05, 06, 08, 10, 16 and 20. The software automatically identifies the symbology and its nominal bar width (x-dimension) and adjusts the aperture size to comply with the symbology specifications and relevant ISO/IEC standard.
Lighting arrangements	Wavelength of light: 660 nm - Angle of illumination: 45 degrees

General Information

Report generation	A report can be produced via the in-built report generator, and saved or printed. The report generator can create reports in .pdf, .html, .txt, .csv or other formats (Append facilities are available for any format which supports this). The report generator is customisable via scripts and templates so reports can be tailored to individual requirements.
Supplied with	Carry case, certificate of conformance (ISO/IEC 15426-1, 15426-2), calibration conformance card, user guide and cleaning cloth
System requirements	PC running any currently supported version of Windows - USB 2.0
Environmental	Operating temperature: 4° to 40°C - Relative humidity: 25% to 80% @ 40°C non-condensing
Regulatory approvals	CE certified, RoHS compliant. Meets ISO/IEC 15415, ISO/IEC15416, ISO/IEC-29158, ISO/IEC 15426-1 and ISO/IEC 15426-2 standards. Has all the features necessary to meet the requirements of 21 CFR part 11.
Warranty	Two years parts and labour - return to bench.

The image displays two screenshots of the Axicon Camera Master software interface. The left screenshot shows the 'Application Validation: Pass' screen for a scan of a barcode with REF 80000527 and LOT 12051234. The right screenshot shows the 'DPM 1.7/18/660/45Q (C)' application validation results, including a QR code scan with a 'Pass' status. The interface includes various data fields, status indicators, and a detailed parameter list for the scanned symbology.

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