

# PC-6000 Range

## PC Based Bar Code Verifiers

### Features/Benefits



- ANSI/ISO/CEN Verification Standards
- Traditional Verification Standards
- USB or Serial Connectivity
- CEN Class A Verifier (EN 12647)
- Symbology Auto-Discrimination
- Automatic Variable Aperture (4, 5, 6, 10 & 20 mil)
- Scan Storage & Replay
- Static Reflectance Meter
- Display of X Dimension/Magnification
- Product Look-up Option
- Individual Bar/Space Dimensional Analysis

### Product Summary

Summary		
UPCA [UPCA Approved] [Use Data]		
0023942874102		
Grade (Pass-1.5)	Average C (2.0)	Thin Scan C (2.0)
Average Bar Code (Reference)	17% (x13.5%)	17% (x13.5%)
Mispositioning	88% (263 µm)	88% (263 µm)
Check Character	OK (7)	
Structure	3	OK
Left Margins	3	OK: +11 (+- 3)
Right Margins	3	OK: +11 (+- 3)
Aperture	150 µm	50 bars + spaces

The CodeMaster PC-6000 range comprises CCD based verifier hardware and Windows™ software, to the latest ANSI/ISO verification standards.

They conform to ANSI x3.182, CEN EN1635 and ISO/IEC 15416-1 verification methodology. All our equipment complies with ISO/IEC15426-1 and, as measured by EN12647, meets the most stringent CEN Class A standard.

The PC-6000 range is designed for the verification of all barcodes up to 2.84" width including quiet zones. The simple to use, non contact design eliminates user error and product damage whilst providing the highest level of accuracy achievable for verification.

The CodeMaster range of PC verifiers provides highly sophisticated, yet easy to use barcode quality control information. They check all aspects of the printed barcode symbol and present the verification data in a clear comprehensive manner.

Simply install the software on your PC, plug in the verifier and rest assured that your barcodes are being checked to the highest standards.

Details				
UPCA [UPCA Approved] [Use Data]				
0023942874102				
Grade (Pass-1.5)	Average	%	Thin Scan	%
Mis. Reference	A (1.0)	8%	A (1.0)	5%
Symbol Contrast		88%		88%
Mis. Edge Control		37%		37%
Mis. Position	B (1.0)	63%	B (2.0)	63%
Check Character	A (1.0)	88%	A (1.0)	88%
Structure	A (1.0)	71%	A (1.0)	71%
Left Margins	A (1.0)	8%	A (1.0)	5%
Right Margins	C (2.0)	88%	C (2.0)	88%
Decode	A (1.0)		A (1.0)	

Exclusive software upgrade features including CSV/Scan DB, AI Checker and Product Look Up can either be supplied as part of the package or as field upgrades to the standard unit.

The CodeMaster PC Verifier, when used in conjunction with our accurately produced calibration sheet, can form an integral part of your ISO9000 quality control procedures.

Free software updates for life are downloadable from our website [www.axicon.com](http://www.axicon.com), ensuring the instrument will remain at the leading edge.

# The Range

**PC-6000:** *Standard Model (for details see below)*

**PC-6015:** *Includes -* **Product Look Up Option:** links the software to a database providing a description of the product that the barcode should relate to as well as the quality control information.

**AI Checker** (UCC/EAN-128 and RSS) : gives the user descriptions of the application identifiers used and then validates the information, checking for possible structure and content errors (e.g. date errors, check digit errors, incorrect field lengths etc).

**CSV/Scan DB:** enables verified data to be stored to disk as a c.s.v. file enabling the user to analyse their results using Excel, Lotus or any similar Windows™ spreadsheet program - can be set to record all data automatically if required.



## Software Specifications

**Windows™ based program - latest software updates can always be downloaded free from [www.axicon.com](http://www.axicon.com).**

<b>Symbologies Verified:</b>	EAN.UCC SYMBOLOGIES - UCC/EAN-128, EAN-8, EAN-13 (with or without addons), UPC-A, UPC-E (with or without addons), ITF/Case Code , RSS (all symbologies). OTHER SYMBOLOGIES: Code 39, Codabar, Code128, MSI Plessey, Code 93, Pharmacode (Laetus: optional extra)
<b>Application Standards:</b>	Italian Pharmacode (IMH), Belgian Pharmacode, ISBN/ISSN, UK Coupon, USA Coupon, Eurocoupon, AIAG, CIP 39, Branded Variable Measure, Instore Variable Measure, Australian Variable Weight, SISAC, M&S, HIBC, Code Vignette.
<b>Analysis Performed on:</b>	Full ISO/CEN/ANSI Parameter Analysis - Rmim, Rmax, Global Threshold, Symbol Contrast, Min Edge Contrast, Modulation,
<b>Relevant Symbologies:</b>	Defects, Decodability, Decode, Full Traditional Verification - Print Contrast Measurement (PCS) and Nominal Bar Width Analysis (X Dimension), Quiet Zone Validation, Check Digit Validation, Data Length, Parity, Control Characters and Structure Checking, Wide to Narrow Bar Ratio Display and Validation, Full Data Encodation including Subsets & Start/Stop Characters, Full Bar/Space Dimensional Analysis/Decodability per Character Set (to ISO standards).
<b>Diagnostic Screens:</b>	Command screen, Summary and Details results screens, Pass/Fail screen, Traditional results screen, Scan Reflectance Profile, Static Scan Reflectance, Dimensional Analysis. Options: UCC/EAN-128 Data Content, Product-Look-Up Table.
<b>Logging:</b>	Scan Storage and Replay - stores reflectance values to enable playback of data and remote diagnostics.
<b>Calibration Logging:</b>	A record of date and time to show when the hardware has been calibrated can be kept - especially important for ISO9000 records.
<b>Settable Features:</b>	Reflectance Calibration, Pass/Fail Grade, Variable Multi-Scan Averaging, Automatic Calibration Prompt.
<b>Error Messages:</b>	Audible Warnings, User-Changeable Warning Colours, Check Digit Error, Structure Error, Quiet Zone Error, Reference Decode Algorithm Error.
<b>Plug-ins available:</b>	Code 39 ASCII, Job Reference, UPC, Text Lookup, Time Zone, User Data, User Name, Belgian Pharmacode. Chargeable Plug-ins - AI Checker, CSV/Scan DB, Product Lookup, Pharmacode (Laetus).



## Hardware Specifications

<b>Dimensions:</b>	6.5" x 3.0"(2.0") x 2.2", Scan Width - 2.84" (including quiet zones).
<b>Weight:</b>	9oz.
<b>Construction:</b>	Interface Unit - Black ABS plastic.
<b>Interface:</b>	USB or RS232C Serial to PC Computer.
<b>Power:</b>	Current Draw - 110mA. USB Connectivity or, if Serial, external power required (PS2 cable supplied to take power from keyboard port, optional AT/XT cable or 5V Regulated PSU available).
<b>Nominal Measuring:</b>	4mil (100 microns), 5 mil (125 microns), 6mil (150 micron), 10mil (250 micron) and 20mil (500 micron).
<b>Aperture:</b>	Automatically identifies the symbology/nominal bar size (X dimension), adjusts the aperture size in accordance with the symbology specifications and International Standards to ensure accurate verification.
<b>Wavelength of Light:</b>	660 nanometers



## General Information

<b>Print of Analysis:</b>	A printed analysis can be produced on any Windows™ printer. The report will be automatically resized to suit the output media including S/A labels. Printouts can be produced for the main verification information (including: Decoded Number, Time & Date, Number of Scans, Code Type, Average ISO/CEN/ANSI Grade, Average Bar Gain, Magnification, Check Character, Light Margin, and Grading Percentage Value) Scan Reflectance Profiles, Dimensional Analysis, also for the UCC/EAN-128 & RSS Data Content information and Plugin results.
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<b>Standard Accessories:</b>	Transit Case, Serial Interface Cable with Power Input Cable or USB Cable (with USB a power cable is neither needed nor supplied), Calibration Sheet, Start-up Guide.
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<b>System Requirements:</b>	IBM or compatible PC (486 or higher preferred), running Windows 95 or higher.
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### **ISO/CEN/ANSI verifier aperture size- nominal bar size ratio guide:**

5mil - Less than 330 microns generally the smaller barcodes - see PC-6000 range  
10mil - 330 to 635 microns Small ITF and all UCC/EAN-128 codes  
20mil - Large ITF codes (greater than 635 microns) usually printed directly onto corrugated card and similar codes  
[For all UPC and EAN retail codes the EAN.UCC specification requires that a 150micron (6mil) aperture should be used]

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