



About VMC

Visual Machines Corporation (VMC™) was established in 2004 to utilize machine vision technology in automation solutions for bar code scanning, car license recognition, object trajectory tracking, and assembly lines. It is well known for its imager bar code scanners (hand held and embedded) capable of reading and decoding all 1D and 2D bar code types and recognizing alpha-numeric texts (OCR (Optical Character Recognition), ICAO Document 9303, Arabic numerals). Their powerful CPUs provide fast and aggressive reading of printed bar codes and symbologies displayed on mobile devices. VMC imager scanners are compatible with the most popular operating systems (Windows, Linux, Mac OS X, Windows CE).



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VMC BurstScan II+

HAND HELD 2D IMAGER SCANNER

Retail's Most Wanted Imager

Description

BurstScan II+ robustly reads 1D and 2D bar codes both printed and displayed on the screens of mobile devices. The unique proprietary image recognition algorithms enable successful and fast reading of damaged, faded out, or printed in any color and covered with a plastic film bar codes. The gun-type handle ensures a comfortable grip and an ergonomic operation. VMC BurstScan II+ offers high performance at a very competitive price.

Main Features

- Supports most of 1D, stacked 1D, and 2D code symbologies
- Robustly reads damaged and low quality PDF417 codes of alcohol tax stamps, codes from mobile device displays, from under the plastic film, as well as symbols printed in any color regardless of the background color
- Scanner assembles structured append sets of Aztec codes to output a single package
- Supports ECI, FNC1, FNC2 flag characters
- Scanner can be configured with programming tags and all configuration settings can be combined into one Aztec programming tag
- Supports national character sets
- Available with RS-232 and USB interfaces
- USB scanners operated under Windows, Linux, Mac OS X, and Windows CE 4.2/6.0 operating systems have a virtual COM-port drivers
- Unzips ZIP, GZIP, and flate archives, as well as compressed 2D bar codes generated by Adobe Acrobat
- High reliability due to zero moving parts
- VMC R&D team based in Moscow is available to customers wishing to add new functions and features to the scanners

Spheres of Application

- Retail
- Healthcare and Pharmaceuticals Industry
- Public Administration
- Banks
- Public Transport
- Logistics
- Manufacture
- Postal Services



Specification

Scanner Type	Hand Held 2D Imager
Supported Bar Code Types	1D (linear): EAN-13, EAN-8, UPC-A, UPC-E, Code 39, Code 93, Code 128, 2 of 5 Interleaved, Pharmacode. 2D: PDF417, Aztec, Data Matrix, QR Code, Micro QR Code, MicroPDF417.
Interfaces	USB/RS-232
Image Sensor	CMOS WXGA 1280x800
Horizontal Angle (Yaw), degrees	56°
Vertical Angle (Pitch), degrees	36°
Light Source	White LEDs
Bar Code Aiming Beam	Red LEDs (642 nm)
Max Depth of Field, mm	250
Resolution, mm	0.12 mm
Print Contrast, %	No less than 10
Operating Temperature, °C	-5 to +50
Humidity (non-condensing), %	10 to 90
Protection Rating	IP54
Voltage, V	5-24
Power Consumption, Watt	0,72-2,0
Dimensions (WxDxH), mm	149x72x145
Weight, g	180



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VMC BurstScan HD

HAND HELD 2D IMAGER SCANNER



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HD Bar Code Scanner With OCR

Description

VMC BurstScan HD is an advanced hand held imager capable of not only reading 1D and 2D bar codes but recognizing alpha-numeric texts, for example, national passport details, requisites of financial papers, ICAO documents. Powerful optics and a high definition CMOS sensor ensure a bigger scanning field and reading bar codes with higher resolution (smaller minimum size of bar code elements). Because of its unique features and sophisticated image recognition firmware, VMC BurstScan HD can increase the performance of automation solutions for banks and accounting, public transport, healthcare, public administration, etc.

Main Features

- Supports most of 1D, stacked 1D, and 2D code symbologies
- Robustly reads damaged and low quality PDF417 codes of alcohol tax stamps, codes from mobile device displays, from under the plastic film, as well as symbols printed in any color regardless of the background color
- Scanner recognizes the following alpha-numeric text line:
 - Text lines created according to ICAO (International Civil Aviation Organization) specification of machine-readable data (ICAO Document 9303)
 - Machine-readable tracks of national passports
 - Arabic numerals in the details of financial documents (VAT number, Industrial Enterprise Classification Code, BIC, Budgetary Classification Code, Transaction Account, Correspondent Account) (option)
 - Series and number of national passports without the machine-readable data (option)
 - First, middle and last name in national passports without the machine-readable data (option)
 - Range numbers of tax stamps in Customs Cargo Declaration forms (option)
- Scanner assembles Structured Append sets of Aztec codes to output a single package
- Supports ECI, FNC1, FNC2 flag characters
- Scanner can be configured with programming tags and all configuration settings can be combined into one Aztec programming tag
- Supports national character sets
- Available with RS-232 and USB interfaces
- USB scanners operated under Windows, Linux, Mac OS X, and Windows CE 4.2/6.0 operating systems have a virtual COM-port drivers
- Unzips ZIP, GZIP, and flate archives, as well as compressed 2D bar codes generated by Adobe Acrobat
- High reliability due to zero moving parts
- VMC R&D team based in Moscow is available to customers wishing to add new functions and features to the scanners

Spheres of Application

- Retail
- Healthcare and Pharmaceuticals Industry
- Public Administration
- Banks and Accounting (recognition of alpha-numeric details of financial documents)
- Public Transport (recognition of passport details)
- Security and Pass Offices (recognition of passport details)
- Logistics
- Manufacture
- Postal Services
- Hotels (recognition of passport details)
- Specific Applications (e.g. State Automatic Alcohol Control System in Russia)



Specification

Scanner Type	Hand Held 2D Imager
Supported Bar Code Types	1D (linear): EAN-13, EAN-8, UPC-A, UPC-E, Code 39, Code 93, Code 128, 2 of 5 Interleaved, Pharmacoce. 2D: PDF417, Aztec, Data Matrix, QR Code, Micro QR Code, MicroPDF417.
Recognized Alphanumeric Texts	ICAO Document 9303, Machine-readable tracks of national passports and passport details (first, middle and last name), Arabic numerals in the details of financial documents, (VAT number, Industrial Enterprise Classification Code, BIC, Budgetary Classification Code, Transaction Account, Correspondent Account)
Interfaces	USB/RS-232
Image Sensor	CMOS SXGA 1280x1024
Horizontal Angle (Yaw), degrees	45°
Vertical Angle (Pitch), degrees	36°
Light Source	White LEDs
Bar Code Aiming Beam	Red LEDs (642 nm)
Max Depth of Field, mm	1500
Resolution, mm	0.085 mm
Print Contrast, %	No less than 10
Operating Temperature, °C	-5 to +50
Humidity (non-condensing), %	10 to 90
Protection Rating	IP54
Voltage, V	5-24
Power Consumption, Watt	0,72-4,5
Dimensions (WxDxH), mm	149x72x145
Weight, g	185



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