Quick Start Guide

SCANTECH ID
a Champtek company

VEGA Area Imager V-1020 / V-1020BT Handheld Bar code Scanner

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Quick Start Guide

Scantech-ID VEGA

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Chapter 11 Specification

1. Introduction

Thank you for purchasing this brand-new designed imager hand held bar code scanner.

VEGA is a cutting-edge gun-type Area Imaging barcode scanner which is designed specifically for retail market. To the brand new series of ***VEGA***, we add on more user friendly functions with detachable cable that makes it more easily to be operated by the customers.

The new ***VEGA*** scanner has a most modern design with the decorative cover display on the top of the scanner that enhances the looks of the checkout counter. This magnificent design allows end-users to display their product information or any relevant commercial message in the cover display. This advanced mechanical design truly creates a win-win solution for both POS retail systems and consumers.

In short, ***VEGA*** is an absolute a high performance gun-type scanner, which provides the customer with the most cost effective solution in the market. It is perfectly suitable and definitely the best choice for any retailers using POS environment.

2. Quick Start

2.1 Standard Shipment Package

The standard shipment package is provided with the following items:

a. ***VEGA*** Area Imager Handheld Bar code Scanner
b. Communication Cable (RS232, PS/2 KBW (V-1020BT
series only) or USB)
c. Power Supply (if applicable)
d. Quick Start Guide
e. Stand (V-1020) or Bluetooth Cradle (V-1020BT)
f. Transparent Cover Plate

Visually inspect the ***VEGA*** and accessories for any evidence of physical damage. If anything is missing or appears to be damaged, immediately contact your dealer.

2.2 Start up

The interface setting (RS232 or USB) of the ***VEGA*** has been set by factory, your ***VEGA*** can plug and play without any setting.
Connect the communication cable provided to the RJ45 connector inlet of the scanner and your POS or Host system. Power-on the ***VEGA*** with the provided

power supply if applicable. Press the RED trigger button at the top side of the unit; aim the bar code, which covered by the LED red light zone. You will hear a beep and the green LED indicator will light on after scan successfully.

2.3 Start up with Bluetooth

Connect the communication cable provided to your POS or Host system and cradle. Power-on the cradle with the provided power supply, scan the Bluetooth MAC address code located on the top side of the cradle. After approximately five seconds your connection is operational and the blue led on the cradle is on.

Before you can use the ***VEGA*** with Bluetooth the scanner must charged for a minimum of 8 hours in first time, if the battery is full, the charge red light will be off and green light will be on.

2.4 User's Installation and Programming Manual

If you need more in depth information about the ***VEGA*** or more advanced setup options you can download the ***VEGA*** User's Installation and Configuration Manual on web site:
www.champtek.com

3. Programming Sequence

You can set-up your ***VEGA*** by scan necessary programming codes for parameters that meet applications. After these scan(s) the ***VEGA*** is automatically configured.

The chapters 4 to 9 provide you with the programming codes necessary for a basic setup. For more advanced setup options see ***VEGA*** user's manual.

3.1 Factory Default Settings

The default RS232 settings are 57600 baud, 8 data bits, and no parity.
The factory default settings are shown with <> and bold in the following pages.

By scanning "Set factory default" code, the setting will go back to the factory default setting. If you are using a USB interface, your device will be lost USB interface settings, please re-configure USB parameter.

Set factory default

4. Scanner Imager Mode

The ***VEGA*** Area Imager mode allows you to position the hand held scanner beam in any direction, regardless of the orientation of the bar code, and perform a good read on 1D and 2D bar codes.

The ***VEGA*** Linear imager mode allows you to increase your decoding speed while scanning 1D bar codes. But, you need to position the beam so that it falls across all bars in the 1D bar codes.

4.1 Imager mode

Linear mode

<Area mode>

Area mode for,
Bright Environment

Area mode for Codes With Reflective Surface

5. RS232 Parameters for V-1020

5.1 Baudrate

Baudrate 38400

<Baudrate 57600>

Baudrate 115200

5.2 Data bits

Data bits 7

<Data bits 8>

5.3 Stop bits

<Stop bits 1>

Stop bits 2

6. USB Parameter

USB Mode

Attention: The “Set factory default” setting would return to the original default setting instead of the customer default setting. If you are using a USB interface, when set to factory default settings, your device will be lost USB interface settings, please re-configure USB mode setting barcode.

7. Bluetooth Setup for V-1020BT

7.1 Set Cradle Interface Barcode

Set Cradle Interface Default Barcode
（default RS232, 19200, N-8-1）

Set Cradle KB Interface Barcode

Set Cradle RS232 Interface Barcode

Set Cradle USB HID Interface Barcode

7.2 Bluetooth Default Setting

Default Setting

7.3 Scanner Server/Client Mode

Scanner Server Mode Barcode

Scanner Client Mode Barcode

7.4 Sleep Mode

<Sleep Mode 1 min. ON>

Sleep Mode 10min. ON

Sleep Mode OFF

7.5 Memory Mode

Memory Mode ON

<Memory Mode OFF>

Memory Read

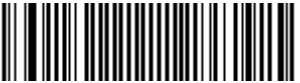
Memory Clear

8. Postambles

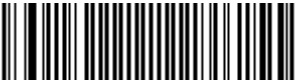
8.1 Postamble

Postamble None

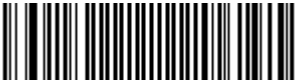
<CR+LF>



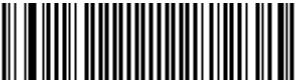
CR



LF



<ETX>



9. Symbologies

9.1 Enable Symbologies

Australian Post ON

AZTEC ON

BPO ON

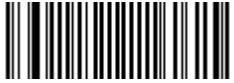
Canada Post ON

CODABAR ON

Codablock A ON

Codablock F ON

CODE 11 ON



<CODE 39 ON>

CODE 93 ON

CODE 128 ON

<GS1-128 ON>

<DATAMATRIX ON>

Dutch Post ON

<EAN-8 ON>

<EAN-13 ON>

<EAN 128 ON>

GS1 CC-A/B ON

GS1 CC-C ON

GS1 DataBar-Omni ON

GS1 DataBar-Limited ON

GS1 DataBar-Expanded ON

Infomail ON

INTERLEAVED 2 of 5 ON

Japan Post ON

Matrix 2 of 5 ON

MaxiCode ON

MicroPDF417 ON

MSI ON

<PDF417 ON>

Planet ON

PLESSEY ON

Postnet ON

QR Code ON

Standard 2 of 5 ON

Sweden Post ON

Telepen ON

TLC 39 ON

<UPC-A ON>

<UPC-E ON>

Note: This step does not include codes for all support Barcode symbologies. For a complete overview of support symbologies see the user manual.

If you need programming codes for symbologies which are not available in this chapter, please contact Scantech-ID Technical Support department or use VEGA utility tool.

9.2 Disable Symbologies

Scan this programming code to disable all symbologies

Disable

10. Test Symbologies

Scan one or more of these bar codes to test bar code symbologies you enabled.

Codabar 	Code 39 
Code 93 	Code 128 
DataMatrix 	EAN 8 
EAN13 	EAN 128 

Interleaved 2 of 5 	MSI code 
PDF417 	GS1 DataBar Omni directional 
GS1 DataBar Omni Stacked 	GS1DataBar Expanded 
GS1DataBar Expanded Stacked 	GS1 DataBar Limited 
UPC A 	UPC E 

11. Specification

11.1 Readable Symbologies:

1D / Linear codes:

EAN/UPC, GS1 DataBar, Code 39, Code 128,
UCC/EAN 128, ISBN, ISSN, Matrix 2 of 5,
Interleaved 2of , Codabar , Code 11,
Industrial 2 of 5, Code 93/93i, MSI,
Standard 2 of 5, Plessey, Postal Codes,
Telepen.

2D / Stacked codes:
Datamatrix, PDF417, MicroPDF417, Maxicode,QR,
Aztec, EAN/UCC composite.

11.2 Physical Characteristics scanner

Weight (V-1020)	Approx 240.gr. (incl cable)
Weight (V-1020BT)	Approx 195 gr.
Material	ABS Plastic
Connector	RJ 45C 10 pins
Dimension	186.8mm x 81.6mm x 63.9mm

11.3 Physical Characteristics Bluetooth Cradle

Weight	Approx 150 gr.
Material	ABS Plastic
Connector	RJ 45C 10Pins
Dimension	129.9mm x 120mm x 71.4mm

11.4 Operational

Light Source	Visible Red light 650nm
Scan rate (Linear mode) (Area mode)	200scans/sec auto adaptive 56 Images/sec auto adaptive
Optical resolution	752 x 480 pixels 256 gray levels.
Scan Angle	38° horizontal, 25° vertical
Interface	RS232, USB (HID or Virtual Com) or PS/2 KBW (V-1020BT series only)
V-1020 Indicators (led)	Green = good read
V-1020BT Indicators (led)	Green = good read Red = low battery Blue = Bluetooth function

11.5 Electrical Characteristics (V-1020)

Operation Voltage	5 VDC ±5%
Current operating	450mA (max) @ 5VDC
Current standby	37mA typical @ 5VDC
AC Transformer	5.2 VDC @ 650 mA/ Input AC 100-240V

11.6 Electrical Characteristics (V-1020BT)

Battery Li-ion	3.7V / 1400mA
Charge Time	4.5 hours
Reads per charge	10,000
Cradle LED indicators	Green = good read Blue = Bluetooth function Red / Green = Charging / Charge completed
Operating Current	500 mA
Input Voltage	5 VDC @ 2 A / Input AC-100-240V

11.7 Bluetooth Characteristics

Bluetooth Module	Bluetooth V2.0 Standard
Frequency Band	2.40GHz ~ 2.48GHz
Modulation Method	GFSK for 1Mbps
RF Output Power	Class 2 (under 4dBm) Class 1 (under 20dBm)
Bluetooth Range (Open Air)	Class 2 up to 10 m /33 ft Class 1 up to 100 m / 330 ft

11.8 Environmental Characteristics:

Ambient light:	0 - 100 000 lux.
Operating temp:	0° to 50° (32° to 122° F)
Storage temp:	-20° to 70° (-4° to 158° F)
Relative humidity:	0% to 95% (non-condensing)

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