BluScan[™] Barcode Scanner

Quick Start Manual





Default



Check Version



FCC WARNING STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications.

FCC COMPLIANCE STATEMENT

This device complies with Part 15 of the FCC Rules. Operation of this device is subject to the following conditions: this device may not cause harmful interference and this device must accept any interference received, including interference that may cause undesired operation.

CANADIAN DOC STATEMENT

This digital apparatus does not exceed the Class B limits for radio noise for digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de las classe B prescrites dans le Réglement sur le brouillage radioélectrique édicté par les ministère des Communications du Canada.

CE STANDARDS

Testing for compliance to CE requirements was performed by an independent laboratory. The unit under test was found compliant to class B limits of part 15 of the FCC rules.

LIMITED WARRANTY

ID TECH warrants to the original purchaser for a period of 36 months from the date of invoice that this product is in good working order and free from defects in material and workmanship under normal use and service. ID TECH's obligation under this warranty is limited to, at its option, replacing, repairing, or giving credit for any product which has, within the warranty period, been returned to the factory of origin, transportation charges and insurance prepaid, and which is, after examination, disclosed to ID TECH's satisfaction to be thus defective. The expense of removal and reinstallation of any item or items of equipment is not included in this warranty. No person, firm, or corporation is authorized to assume for ID TECH any other liabilities in connection with the sales of any product. In no event shall ID TECH be liable for any special, incidental or consequential damages to purchaser or any third party caused by any defective item of equipment, whether that defect is warranted against or not. Purchaser's sole and exclusive remedy for defective equipment, which does not conform to the requirements of sales, is to have such equipment replaced or repaired by ID TECH. For limited warranty service during the warranty period, please contact ID TECH to obtain a Return Material Authorization (RMA) number & instructions for returning the product.

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Section 1 INTRODUCTION

The BluScan long Range Cordless Imager provides a high performance scanning with a rapid scan rate (450 scans/sec) and superior depth of field (up to 40 inches on 40-mil codes). Utilizing IDTECH's unique wireless-communication technology, the BluScan operates with a 100-meter data transmission range.

Accompanying with a long-lasting Li-ion battery pack and IP42 sealing level design, the BluScan offers the freedom of mobility of barcode scanning and outstanding durability in a wide range of applications including business offices for shipping / receiving, supermarkets, warehouses and manufacturing.

- Light Weight, Ergonomic Design
- General Purpose reader a single device covering the broadest range of application
- Durable without any moving parts to wear out
- Operate with a 100-meter data transmission range.
- Excellent Scanning Performance starting at 0.1mm (4 mil)
- Readable Under Sun Light
- Support GS1 databar (RSS) & CS (Composite Symbology) barcodes
- Reliability
 - (1) Trigger: 1,000,000 times (2) Cable: 320,000 times (90°)
 - (3) Drop: 1.5 meter

Section 2 INSTALLATION AND OPERATION

Installation- Keyboard Wedge

- 1. First of all, you must switch off power for the terminal/computer.
- Disconnect the keyboard cable from the back of the terminal/computer and connect to the interface cable of the scanner.
- 3. Connect the interface cable of the scanner to the terminal/computer.
- 4. Turn the terminal/computer power on.

Installation- RS-232

- 1. Disconnect power to the terminal/computer.
- 2. Connect the external power supply (DC adapter) to the interface cable of the scanner.
- 3. Plug the serial connector into the serial port on the back of your computer/terminal. Tighten the two screws to secure the connector to the port.
- 4. Plug the power pack into power source.
- 5. Once the scanner has been fully connected, turn the terminal/computer power back on.

Installation- USB (Simulate with keyboard wedge)

- 1. Connect the USB cable between to the terminal/computer.
- 2. Windows will automatically detect the USB device.

Note: If any of the above operation is incorrect, turn off the power immediately and checking any improper connections. Go through all above steps again.

Pin Assignments

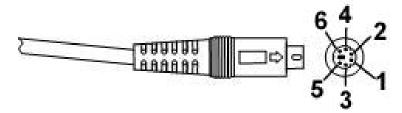
Keyboard Wedge Connector (To Host Side):

Pin	Mini-DIN 6P Male	Mini-DIN 6P Female
1	DATA / PC	CLK / KB
2	NC	GND
3	GND	DATA / KB
4	VCC (+5V)	VCC (+5V)
5	CLK / PC	NC
6	NC	NA

Mini-DIN 6P Female Connector

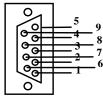


Mini-DIN 6P Male Connector



RS-232 DB-9F Connector (To Host Side):

Pin	Definition	
1	NC	
2	TXD	
3	RXD	
4	NC	
5	GND	
6	NC	
7	CTS	
8	RTS	
9	VCC (+5V)	



Section 3 TROUBLESHOOTING

Troubleshooting assistance for common problems:

• The data from the Scanner is not as expected.

ANS: Please read User's Manual and follows up all instruction

- The Scanner does not output data.
 - . **ANS:**Check basic operation: well connect the cable; examine that if the barcode type is enabled.
- The Scanner does not function with the computer.
 - **ANS:**Verify the interface cable is securely connected to the host computer. Consult your technical support personnel or refer to your host system manual to verify the proper connection for the imager.
- I have a scanner with keyboard wedge, but after changing interface to RS-232, the scanner beeps continuously but I fail to reset it to factory default, what can I do?
 - **ANS:**Sometimes scanners with keyboard wedge cable but set to RS-232 interface. The only solution is to find out a RS-232 cable with adapter powered, connect the scanner with scanner RS-232 cable and perform factory reset.

Section 4 SPECIFICATION

BluScan					
Specification					
Operational					
Light Source	630 nm Visible Red LED				
Optical System	2048 pixel CCD				
	(Charge-coupled device)				
Depth of Scan	Up to 600mm (CODE 39, PSC=90%, 20mils)				
Field					
Scanning Width	160mm				
Scan Speed	450 scans/sec				
Resolution	0.1mm (4mils) Code39,PCS=90%				
Print Contrast	25% or more				
Scanning Angle	Front: 60° Rear: 60° Yaw: 70°				
Decode	Auto-discriminates all standard barcodes and some 2D symbologies including				
Capability	PDF-417 and GS1 DataBar Omnidirectional code; Other symbologies can be				
	ordered optionally				
Beeper	7 tones or no beep				
Operation					
Indicator on	Green & Red led				
imager					
Mechanical					
Length	164 mm				
Width-handle	30 mm				
Width-head	78 mm				
Depth-handle	56 mm				
Depth-head	35 mm				
Cradle	210 (L) x 109 (W) x 51 (H) mm				
Weight	Less than 250g (with a battery)				
Case material	ABS (over molded at contact points)				
Cushion	Double injection				
material					
Cradle	DC222 Kaybaard wadaa LICD				
interface	RS232, Keyboard wedge, USB				
Electrical					
Input Voltage	5 VDC ± 10% VDC				
(Cradle)					
Power -	550 mW				

Operating					
(Cradle)					
Power –					
Standby	400 mW				
1	400 1110				
(Cradle) Current –	110 mA				
	TTO THA				
Operating (Cradle)					
Current –	90 mA				
	80 mA				
Standby					
(Cradle)					
Charge Current	510 mA				
(Cradle)					
Input Voltage	3.4V ~ 4.2V				
(Imager)					
Power -					
Operating	851 mW				
(Imager)					
Power –					
Standby	67 mW				
(Imager)					
Current –	230 mA				
Operating					
(Imager)					
Current –	18 mA				
Standby					
(Imager)					
Current - Sleep	2 mA				
(Imager)					
Light Level	Up to 70000 Lux				
Shock (Imager)	1.5m drop onto concrete				
Shock (Cradle)	90cm drop onto concrete				
Contaminants	Seals to resist airborne particulate contaminants (IP42)				
Ventilation	None required				
Programming					
Programming	Manual (Danding and date and date) Winds				
method	Manual (Reading special barcode), Windows configuration program				
Program	Enabled by built in fleeh memory				
upgrade	Enabled by built-in flash memory				

Programmable	Code type selection, check digit selection Decoding option Decoding option				
characteristics	Transmitted character delay, Header selection, trailer selection, message suffix, good read beep tone and volume, scanner trigger selection Keyboard emulation type (intermessage delay, keyboard type and keyboard language)				
	Serial interface type (ACK/NAK, Xon/Xoff, RTS/CTS, good read LED control, start/stop bits)				
Remark. Current are marked as RMS (Root mean square) Indications of BluScan TM					

	Status	Green LED	Red LED	Orange LED	Beeper
	Link established	Blink once			A special beep
	Hardware fail		Flash		
	Program download	Flash			
	Program checksum fail		Flash		
LED	Data transmitting	ON			High freq. Beep for 300msec
	Data trans. Fail		ON for 300msec		Error beep
	Data trans. OK	ON for 200msec			Good beep
	Low battery (<3.2V) (Trigger is pressed)			Flash	

Cradle:

	Status	Green LED	Red LED	Orange LED	Beeper
	Inquiry			Blink	Beeps once a second
	Connecting			Blink	
	Link established	ON			
	Hardware fail		Flash		
	Data receiving			ON for 0.5sec	
	from the scanner			014 101 0.5360	
RF	Barcode data				
status LED	proof or				Good beep
	transmitted				
	Data send to the				Error beep
	host Fail				о. 200р
	Program	Flash			
	download				
	Program		Flash		
	checksum Fail				
	ldle				
Battery LED	Charging	Blink			
	Battery full	ON			
	Battery/charger Fail		Blink		

Section 5READING MODE SETTINGS

Default setting

For each barcode shown as below:

V = Enabled as default setting

- = Not supported

Empty space = Download User's Manual;

Please visit IDTECH website: www.idtechproducts.com

Code Type	Read Enable	Checksum Verification Enable	Checksum Transmissi on Enable	Code ID
UPC-A	V	V	V	A
UPC-E	V	V	V	Е
EAN-13	V	V	V	F
EAN-8	V	V	V	FF
Code-39	V			*
Interleaved 2 of 5	V			i
Industrial 2 of 5		-	-	i
Matrix 2 of 5				В
Codabar				%
Code-128	V	V		#
Code-93		V two digits		&
Code-11		V one digit		0
MSI/Plessey		V		@
UK/Plessey		V		@
Telepen				S
Standard 2 of 5		V	V	i
China Post				t
Italian				n
Pharmacode.				р
Code-16K		-	-	
PDF417	V	-	-	
EAN UCC				RC
Composite		_	-	NO.
GS1 Databar				R4
Omnidirectional				124
GS1 Databar				RL
Limited				I \L
GS1 Databar				RX
Expanded				
Micro-PDF		-	-	U

Section 6 TESTING CODES













Full User's Manual is available for download on www.idtechproducts.com

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