

Imaging Bar Code Scanner
Supplemental Configuration Guide
二维影像式条码扫描器简易设置手册



影像式二维条码扫描器功能参数

功能参数

蜂鸣器	六种声调
光源	LED波长625nm + 6.5nm
指示灯	蓝色=待机状态、白色=解码成功、黄色=自动扫描
接口模式	USB、RS232、KBW、IBM46XX

物理参数

规格（长X宽X高）	（含支架）130MMX98MMX128MM；（不含支架）125MMX86MMX85MM
重量	（含支架）510G；（不含支架）310G

电学参数

输入电压	5VDC
工作功率	2W（400mA@5V）
直流变压器	Class2:5VDC@2A
LED等级	Class1;IEC60825-1 EN60825-1
电磁兼容性	FCC Part15, IEC60825-1, EN55022 Class B

环境参数

工作温度	0°C~45°C
存储温度	-40°C ~ 60°C
湿度	0%-95%相对湿度，非凝结状态
抗震性	可承受1.5米的空中摔落
防尘性	密封能抵挡空气尘粒进入
照度	近100,000LUX (9,290尺烛光)

扫描性能

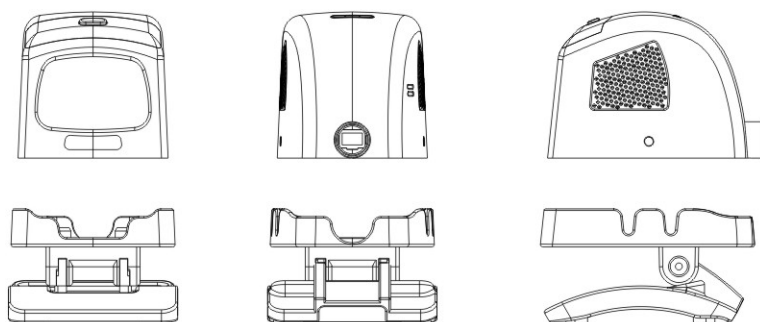
扫描分辨率	130万像素
扫描角度	水平：60°，垂直：25°
可识别的印刷对比度	最低20%的反射差
转角，仰角，偏角	360°，75°，75°

解码能力

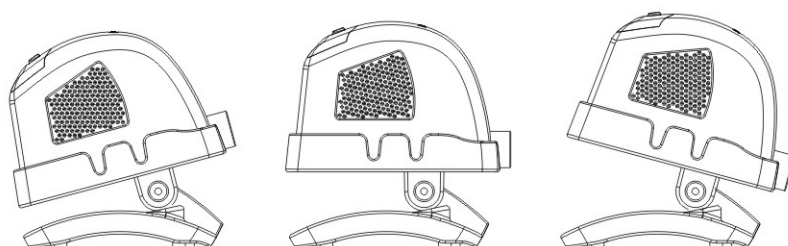
1D:Code39, Code93, Code128, UPC/EAN/JAN, Code2 of 5, Code11, Codebar,MSI Plessey, GS1 DataBar, Telepen, Trioptic *PDF: PDF417, MicroPDF417 *2D:QR Code, Micro QR Code, Data Matrix, Aztec Code, Maxicode, Codeblock, Composite Code, POSTNET, PLANET, UPC, Intelligent Mail, Canada Post, Australia Post, Japanese Post, Royal Mail RM4SCC, KIX Code *OCR: OCR-A, OCR-B, E-13B MICR

产品特征

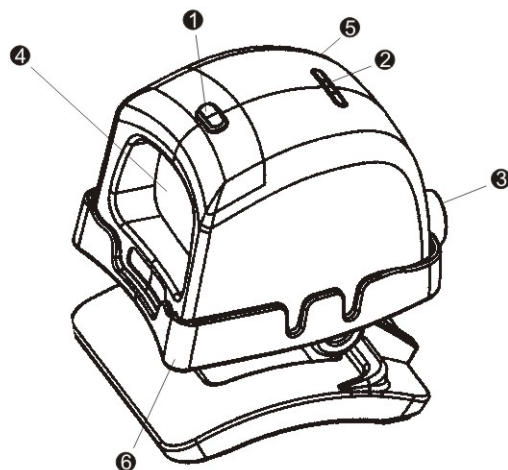
- 全向扫描模式
- 二次开发功能
- 超低功耗
- 支持手机屏幕条码读取
- 条码选读功能
- 手自一体读取功能
- 体积小巧，可拆卸式底盘支架，能适应任何狭小的空间



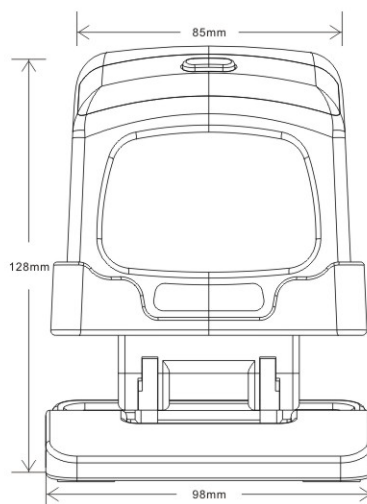
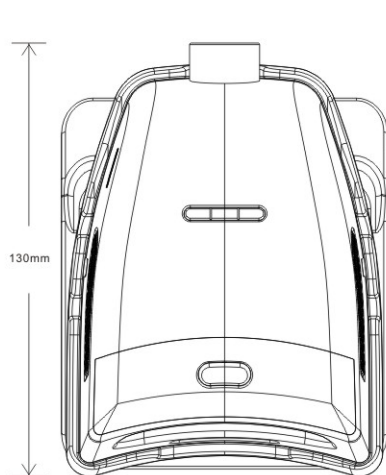
- 活动式底盘支架，仰角25° 及俯角25° 自由调节



物理参数

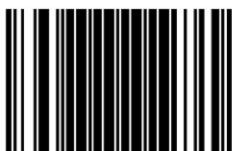


1	手动开关	4	扫描窗口
2	LED指示灯	5	蜂鸣器
3	插线端口	6	底盘支架



二维影像式条码扫描器简易设置手册附录

该扫描器中文设置手册是为了方便中国客户的使用而设计的，里面包含了国内最常用的扫描器设置选项。



进入/退出设置模式

扫描该条码使扫描器进入设置模式。在设置条码扫描全部结束后，再扫描该条码退出设置模式。



恢复出厂设置

扫描该设置条码后，将使扫描器恢复出厂默认值。



添加回车 (CR) 后缀

默认状态下，被传输的条码数据之后都有一个回车 (CR) 后缀。



去除回车 (CR) 后缀

扫描该设置条码后，被传输的条码数据之后的回车 (CR) 后缀都被去除。

通讯模式设置



设置键盘口通信模式

扫描该设置条码后，将使扫描器进入键盘口通信模式。



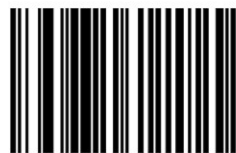
设置独立键盘口通信模式

扫描该设置条码后，将使扫描器进入独立式键盘口通信模式，如扫描器和笔记本电脑的连接。



设置USB模拟串口通信模式

设置扫描器 USB 模拟串口输出（需装驱动）。



设置USB模拟键盘口通信模式

设置扫描器 USB 模拟键盘口输出。



设置RS232串口通信模式

扫描该设置条码后，将使扫描器恢复为RS-232 串口通信模式。

校验设置



无效验

扫描该设置条码后，RS-232 串口通信为无校验。



奇效验

扫描该设置条码后，RS-232 串口通信的校验方式为奇校验，即校验位或者为 0 或者为 1，确保 1 的个数为奇数。



空格效验

默认状态下，RS-232 串口通信的校验方式为空格校验，即校验位总是为 0。



偶效验

扫描该设置条码后，RS-232 串口通信的校验方式为偶校验，即校验位或者为 0 或者为 1，确保 1 的个数为偶数。



标志效验

扫描该设置条码后，RS-232 串口通信的校验方式为偶校验，即校验位总是为 1。

波特率设置



19200波特率

扫描该设置条码后，RS-232 串口通信的数据传输速度为 19200 波特率。



9600波特率

默认状态下，RS-232 串口通信的数据传输速度为 9600 波特率。



4800波特率

扫描该设置条码后，RS-232 串口通信的数据传输速度为 4800 波特率。

数据位/停止位设置



7位数据位

默认状态下，RS-232 串口通信中的数据位为 7 位。



8位数据位

扫描该设置条码后，RS-232 串口通信中的数据位为 8 位。



1位停止位

扫描该设置条码后，RS-232 串口通信中的停止位为 1 位。



2位停止位

默认状态下，RS-232 串口通信中的停止位为 2 位。

解码类型设置



打开矩阵二五码



关闭矩阵二五码



打开Data Matrix码



关闭Data Matrix码



打开QR码



关闭QR码



打开Max i Code码



关闭Max i Code码



打开Aztec码



关闭Aztec码

解码类型设置



打开Australia Post码



关闭Australia Post码



打开Japan Post码



关闭Japan Post码



打开KIX Code码



关闭KIX Code码



打开PLANET Code码



关闭PLANET Code码



打开UPU Decoding码



关闭UPU Decoding码

UPC-A



0 123456 7890

Code 128



Code 128

Code 39



BC321

Code 93



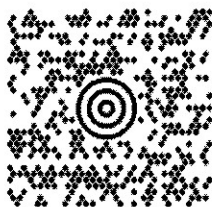
123456-9\$

PDF417



Car Registration

MaxiCode



Interleaved 2 of 5



1234567890

EAN-13



9 780330 290951

Codabar



A13579B

Data Matrix



Test Symbol

QR Code



Numbers

Aztec



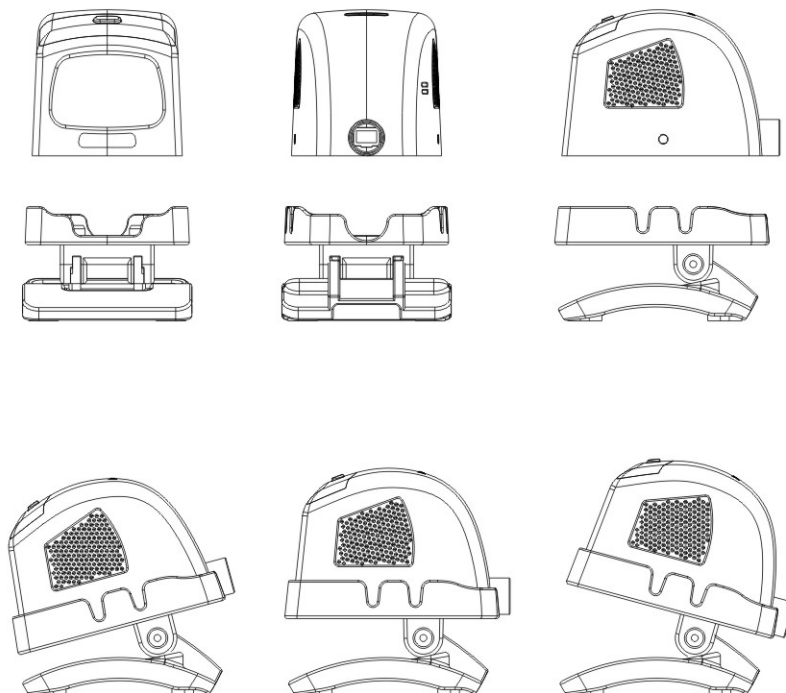
Package Label

Imaging Bar Code Scanner Technical Specifications

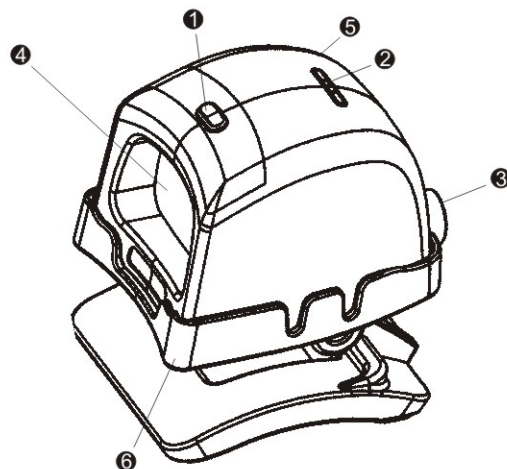
Operational	
Light Source	Visible Red LED 625 nm $\pm$ 6.5 nm
Visual Indicators	Blue = ready to scan; White = good read; Yellow = automatic scanning
Host System Interfaces	USB, RS232, Keyboard Wedge, IBM 46xx (RS485)
Mechanical	
Dimensions (LxWxH)	(With Stand) 1300MMX98MMX128MM; (Host) 125MMX86MMX85MM
Weight	(With Stand) 510G; (Host) 310G
Electrical	
Input Voltage	5VDC
Operating Power (typical)	2W (400mA@5V)
DC Transformers	Class2:5VDC@2A
LED Class	Class1; IEC60825-1 EN60825-1
EMC	FCC Part15, IEC60825-1, EN55022 Class B
Environmental	
Operating Temperature	0°C~45°C
Storage Temperature	-40°C ~ 60°C
Humidity	0% to 95% relative humidity, non-condensing
Drop	Designed to withstand 1.5 m (5') drops
Environmental Sealing	Sealed to resist airborne particulate contaminants
Light Levels	100,000 Lux (9,290 foot-candles)
Scan Performance	
Scan Pattern	Area Image (1280 x 512 pixel array)
Motion Tolerance	47 cm/s (18 in/s) for 13 mil UPC at optimal focus
Scan Angle	Horizontal: 50
Print Contrast	20% minimum reflectance difference
Pitch, Skew	75°, 75°
Decode Capability	1D:Code39, Code93, Code128, UPC/EAN/JAN, Code2 of 5, Code11, Codebar,MSI Plessey, GS1 DataBar, Telepen, Trioptic *PDF: PDF417, MicroPDF417 *2D:QR Code, Micro QR Code, Data Matrix, Aztec Code, Maxicode, Codeblock, Composite Code, POSTNET, PLANET, UPC, Intelligent Mail, Canada Post, Australia Post, Japanese Post, Royal Mail RM4SCC, KIX Code *OCR: OCR-A, OCR-B, E-13B MICR

Features

- **TotalFreedom™:**
Expands scanner functionality by allowing image processing, decoding and formatting plug-ins to be loaded directly to the scanner instead of the host system
- **Omnidirectional Scanning:**
Eliminates need to orientate scanner to bar code
- **Mobile Phone Reading:**
Excels at scanning coupons and tickets directly from the screen of a mobile device
- **CodeSelect™:**
Scans up to 7 bar codes in a single flash and outputs data in any predetermined order
- **Flexible Licensing Solution:**
Meets diverse scanning requirements by offering models with limited decoding capabilities—purchase decoding licenses to enable additional functionality as the need arises
- **Motion Tolerance:**
Offers aggressive scanning of bar codes passing by the window in presentation mode



Mechanical



1	manual switch	4	Scan Window
2	LED Light LED light	5	Speaker
3	10-Pin Female Soket	6	Stand

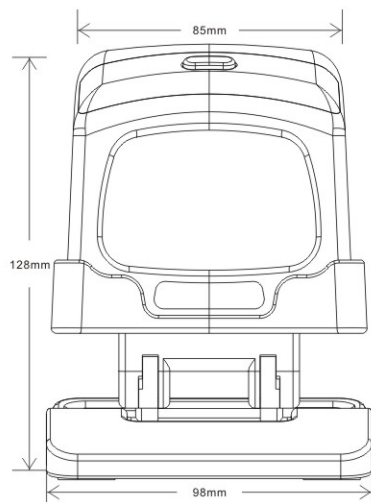
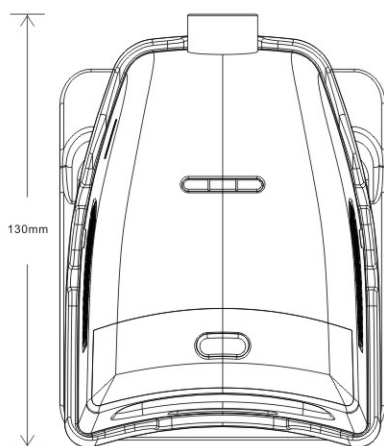


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SCANNER OPERATION

Presentation and Trigger Modes

Presentation Mode
Out-of-Stand



Presentation Mode
In-Stand



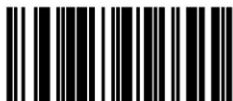
Multi-Try Trigger Mode
Out-of-Stand



Multi-Try Trigger Mode
In-Stand



Continuous Trigger Mode
Out-of-Stand



Continuous Trigger Mode
In-Stand



SCANNER OPERATION

Presentation and Trigger Modes

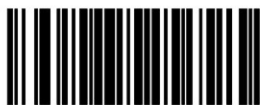
Single Trigger Mode
Out-of-Stand



Single Trigger Mode
In-Stand



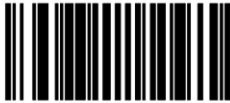
Set In-Stand Mode to Match
Out-of Stand Mode



SCANNER OPERATION

Omnidirectional and/or Linear Scanner Modes

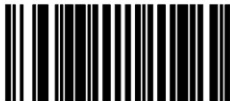
Enable Linear Only
in Trigger Operations



Disable Linear Only
in Trigger Operations



Enable 1D Linear Only
in Trigger Operations



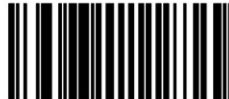
Disable 1D Linear Only
in Trigger Operations



Enable Linear Only
in Presentation Operations



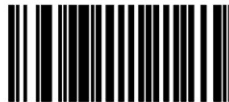
Disable Linear Only
in Presentation Operations



Enable 1D Linear Only
in Presentation Operations



Disable 1D Linear Only
in Presentation Operations



SCANNER OPERATION

Linear Illumination Aiming

Enable Aiming in
Trigger Operations



Disable Aiming in
Trigger Operations



Enable Aiming in
Presentation Operations



Disable Aiming in
Presentation Operations



Data Output

Enable Data Output



Disable Data Output



SCANNER OPERATION

Same Symbol Timeouts

Retain Same Symbol
Timeout on Trigger



The same-symbol
timeout is not
restarted when the
trigger is pulled.

Reset Same Symbol
Timeout on Trigger



The same-symbol
timeout is restarted
when the trigger is
pulled.

CODE TYPES AND DECODE RULES

Data Matrix

Enable Normal
Color Data Matrix Decoding



Enable Inverse
Color Data Matrix Decoding



Enable Normal **and** Inverse
Color Data Matrix Decoding



Disable
Data Matrix Decoder



Enable Rectangular
Data Matrix Symbol
Decoding



Disable Rectangular
Data Matrix Symbol
Decoding



CODE TYPES AND DECODE RULES

QR Code

Enable Normal
Video QR Code



Enable Inverse
Video QR Code



Enable Normal **and** Inverse
QR Code



Disable QR Code



MaxiCode

Enable MaxiCode



Disable MaxiCode



CODE TYPES AND DECODE RULES

Aztec

Enable Normal
Video Aztec Decoding



Disable Normal
Video Aztec Decoding



Enable Inverse
Video Aztec Decoding



Disable Inverse
Video Aztec Decoding



Postal

Enable
Australia Post



Disable
Australia Post



CODE TYPES AND DECODE RULES

Postal

Enable Japan Post



Disable Japan Post



Enable KIX Code



Disable KIX Code



Enable
PLANET Code



Disable
PLANET Code



Enable
POSTNET Code



Disable
POSTNET Post



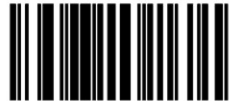
CODE TYPES AND DECODE RULES

Postal

Enable B & B'
Fielded POSTNET



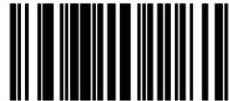
Disable B & B'
Fielded POSTNET



Enable
UPU Decoding



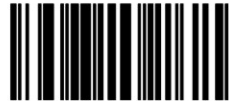
Disable
UPU Decoding



Enable
Royal Mail 4 Code



Disable
Royal Mail 4 Code



Software Handshaking

Enable
JV Handshaking



An "JV" response from the host indicates reception of scanner data.

Disable
JV Handshaking



Additional Interfaces

Enable Beeper
ON/OFF Commands



Enables beeper on/off commands with internal USB and IBM interfaces.

Disable Beeper
ON/OFF Commands



3rd Generation
IBM 46xx Defaults



For this feature to function properly, scan IBM Reserved Code #2 after scanning the 3rd Generation IBM 46xx Default bar code.

IBM Reserved Code #2



Scan IBM Reserve bar code above after scanning the 3rd Generation IBM 46xx Default bar code.

INTERFACES

Additional Interfaces

IBM 46xx-SIOC RS485 Interface

Send 30H for Last Block
Label Identifier 4680



For PDF
codes only.

Send 00 for Last Block
Label Identifier 4680



For PDF
codes only.

IBM-OEM USB Interface

Send 30H for Last Block
Label Identifier USB



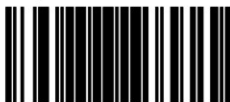
For PDF
codes only.

Send 00 for Last Block
Label Identifier USB



For PDF
codes only.

Full Speed USB
Keyboard Interface



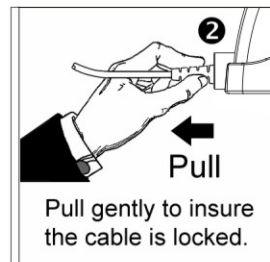
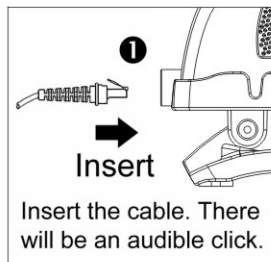
INTRODUCTION

THE POWERLINK CABLE

CONNECTING

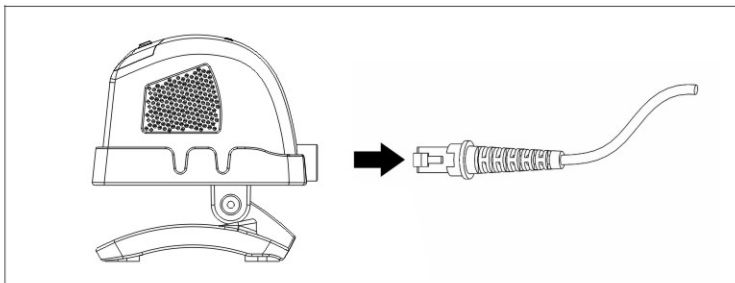


Important: If the PowerLink cable is not fully 'latched' the unit can power intermittently.



DISCONNECTING

Before removing the cable from the scanner, Metrologic recommends that the power on the host system is off and the power supply has been disconnected from the PowerLink cable.



1. Locate the small 'pin-hole' on the handle of the unit near the cable.
2. Bend an ordinary paperclip into the shape shown above.
3. Insert the paperclip (or other small metallic pin) into the small 'pin-hole'.
4. You will here a faint 'click'. Pull gently on the strain-relief of the PowerLink cable to remove the cable from the unit.

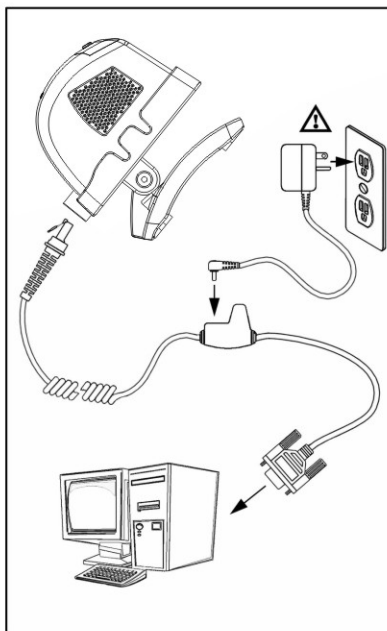
INSTALLING THE SCANNER TO THE HOST SYSTEM

RS232:

1. Turn off the host device.
2. Plug the male 10-pin RJ45 end of the PowerLink cable into the 10-pin socket on the Focus. You will hear a 'click' when the connection is made.
3. Connect the 9-pin D-type connector of the communication cable to the proper COM port of the host device.
4. Plug the power supply into the power jack on the PowerLink cable.



Check the AC input requirements of the power supply to make sure the voltage matches the AC outlet. The outlet must be located near the equipment and be easily accessible.

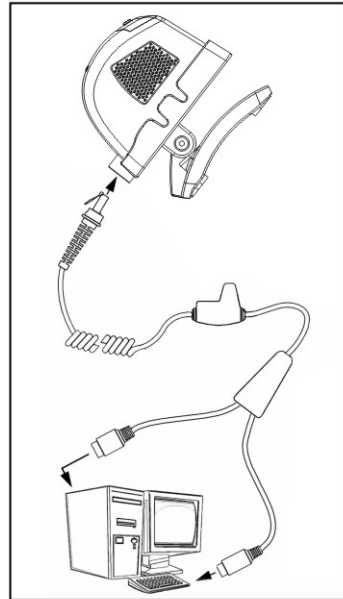


5. Connect AC power to the transformer.
6. If will start to initialize. All LE Ds (yellow, white, and blue) will light for approximately 2 seconds then start to alternately flash. When the scanner has finished initializing the LEDs will stop flashing and the unit will beep 3 times indicating that the scanner is ready for use.

INSTALLING THE SCANNER TO THE HOST SYSTEM

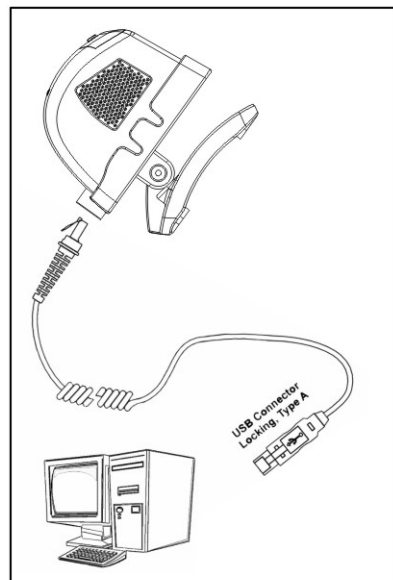
Keyboard:

1. Turn off the host device.
2. Plug the 10-pin RJ45 male end of the PowerLink cable into 10-pin socket on the Focus. You will hear a 'click' when the connection is made.
3. Disconnect the keyboard from the host device.
4. Connect the "Y" ends of the communication cable to the keyboard and keyboard port on the host device. If necessary use the male/female adapter cable supplied with the scanner for proper connections.
5. Plug the external power supply (*required*) into the power jack on the PowerLink cable.
6. It will start to initialize. All LEDs (yellow, white, and blue) will light for approximately 2 seconds then start to alternately flash. When the scanner has finished initializing the LEDs will stop flashing and the unit will beep 3 times indicating that the scanner is ready for use.
7. Turn on the host device.



Integrated USB:

1. Turn off the host device.
2. Plug the male 10-pin RJ45 end of the USB cable into the 10-pin socket on the Focus. You will hear a 'click' when the connection is made.
3. Plug the USB type A end of the USB cable into the host's USB port.
4. Turn on the host device.
5. It will start to initialize. All LEDs (yellow, white, and blue) will light for approximately 2 seconds then start to alternately flash. When the scanner has finished initializing the LEDs will stop flashing and the unit will beep 3 times indicating that the scanner is ready for use.



Feb 2013



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