

ERU171/ERU181 USB Desktop Reader



Preface

Read This First

Read this instruction guide before you install or operate your EverFocus product. Note: Use this product only for the purpose for which it was designed. Product Specifications might be subject to change without prior notice.

UnPacking

Please be careful when you unpack the box due to the electronics devices inside. Check and make sure that you have all the items listed below inside the original box:

1. ERU171/181 Reader
2. User Manual
3. Accessories

Please Note: If an item appears to have been damaged in shipment, replace it properly in its carton and notify the shipper. If any items are missing, notify your EverFocus Electronics Corp. Sales Representative or Customer Service. The shipping carton is the safest container in which the unit may be transported. Save it for possible future use.

Safety Warning

1. This product is designed for indoor use only. Do not expose the product to high humidity and dust.
2. Temperature: this product is designed to operate in the temperature range 20°F~143°F.
3. Cleanse: Power off the product before cleansing. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth to clean it.
4. Maintenance: Do not spill liquid of any kind onto the product. It may erode the components and cause short-circuiting.
5. Service: Do not attempt to service the product by yourself. Opening or removing covers may expose you to dangerous voltage or other electric hazards. Contact our technical support for any service or repair needs. Unauthorized opening or tampering of the product may void the warranty.

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Product Overview

1 Overview

ERU Series reader with USB keyboard simulation interface can be used to carry out card registration quickly and easily. A DIP Switch is available at the back of the product and can be used to configure different output formats. Driver-free, plug-and-play, and no external power supply is required. The USB interface can be used to connect to a computer and is especially suitable for laptop user. Reliable, easy to use, with an sophisticated exterior, EverFocus USB Reader is an ideal choice for any Access Control System.

1.1 Specifications

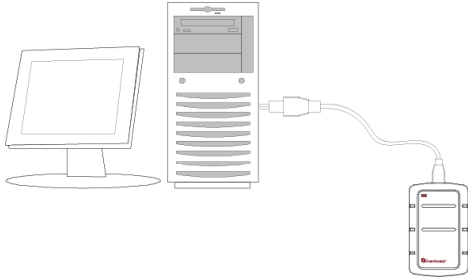
	ERU171	ERU181
Frequency	125KHz	13.56MHz
Card Format	ID Card (EM)	Mifare /CPU Card
Read Range	>5cm	
Read Time	0.1 Sencod	
Out Format	Simulation USB keyboard interface, according to DIP switch to set the output in different formats (See Section 3 below)	
Audio	Build-In Buzzer, 2KHz	
Indicator	1 Led : Dual-Color, Red: Power, Green: Card Present	
Power Supply	DC: 5V, 50mA (Power over USB)	
Temperature	-10°C ~ 60°C	
Dimension	80W * 52H * 15.5D mm	

Connection

2 Connection

2.1 Connection to PC

ERU Series USB desktop reader and the PC connection is simple, as shown below :



Connection as follows :

1. The reader is driver-free, users need not to install any drivers, plug and play, and no external power supply is required.
2. Use the USB cable to connect card reader to the PC , when hear two consecutive beeps , indicating the connection successfully.

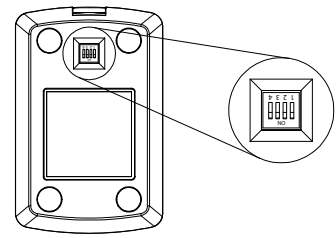
Notes : If the reader continued to issue more than two beeps, check the motherboard's power supply , unstable voltage will result in the occurrence of this phenomenon.

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Output Format

3 Output Format

3.1 Mode Definition



DIP Switch 1	ON	Output hexadecimal card number
	OFF	Output decimal card number
DIP Switch 2、3	2:ON	Output 6 hexadecimal numbers, e.g. 098CAD
	3:ON	Output 8 decimal numbers, e.g. 00625837
	2:ON	Output 8 hexadecimal numbers, e.g. 03257CFA
	3:OFF	Output 8 decimal numbers, e.g. 0052788474
	2:OFF	Output 10 hexadecimal numbers, e.g. 0B002D9516
	3:ON	Output 13 decimal numbers, e.g. 0047247627542
DIP Switch 4	2:OFF	Output 6 hexadecimal numbers, insert a space after the second number, e.g. 09 8CAD
	3:OFF	Output 8 decimal numbers, insert a space after the third number, e.g. 045 36035
	ON	Add a "Enter" key after the card number
	OFF	Normal Card number

Note: The output format is determined by a combination of four DIP switches, user can use "Caps Lock" key on the keyboard to switch uppercase or lowercase letters of hexadecimal card number.

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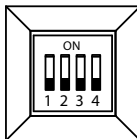
Working Mode

4 Working Mode

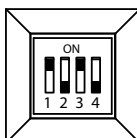
4.1 ERU181 Working Mode

Set all 1 to 4 DIP switch to "OFF" position, then connect the USB cable to PC USB port. After identification ,ERU181 will work in the CPU card Read/Write mode. ERU181 support to Read/Write Mifare card and CPU card(FM1208).

For example, the following figure, the DIP switches 1 to 4 all set to "OFF" position.



When 1 to 4 DIP switch is not all in the "OFF" position , then connect the USB cable to PC USB port. After identification ,ERU181 will work in the serial number output mode. According to the 3.1 Section Mode definition, select the output format card. For example, the following figure, DIP switch 1 and 3 isn't in "OFF" position .



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