

# **ID IDENT 1500**

# **RFID and Barcode Reader**

# (Ethernet)





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## Disclaimer

Before using the product, please read all the contents in this Product Manual carefully to ensure the safe and effective use of the product. Do not disassemble the product or tear up the seal on the device by yourself, or iDTRONIC will not be responsible for the warranty or replacement of the product.

The pictures in this manual are for reference only. If any individual pictures do not match the actual product, the actual product shall prevail. For the upgrade and update of this product, iDTRONIC reserves the right to modify the document at any time without notice.

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## 1. Preface

Thank you for using the ID IDENT 1500 (Ethernet) scanning equipment provided by iDTRONIC. Reading this document carefully can help you understand the functions and features of this device, and quickly master the use and installation of the device.

### 1.1. Product introduction

The ID IDENT 1500 (Ethernet) reader was a specially designed product for access control It also support Ethernet output interface, with built-in relay module.

### 1.2. Product feature

- A. Scan QR/barcode & reading card all in one.
- B. Fast recognition, high accuracy, can reach 0.1s the fastest.
- C. Easy to operate, more easy to debug with the humanize tool.
- D. Built-in relay module, can connect to the access system directly.



# 2. Product appearance

## 2.1. OVERALL INTRODUCTION





## 2.2. PRODUCT SIZE CHART



2.2.1 Front view





# 3. Product parameters

## 3.1. General parameter

General parameter			
output interface	Ethernet, relay		
indicating method	White, red, green light indicator		
	Веер		
imaging sensor	300,000 pixel CMOS sensor		
max. resolution	640*480		
supported operating systems	Windows (XP, 7, 8, 10)		
installation method	Embedded installation		
product dimensions	86mm*86mm*39mm		
recognition window size	50mm*50mm		
product material	Imported PC & tempered glass		

## 3.2. Recognition parameter

QR code recognition parameter				
symbologies	QR, PDF417, CODE39, CODE93, CODE128, ISBN10, ITF,EAN13 etc			
supported decoding	mobile phone screen/ printed barcodes			
DOF	0mm-100mm			
reading accuracy	> 7mil			
reading speed	30ms per time (average), support reading continuously			
reading direction	360 degree			
FOV	Horizontal Field: 70 degree, Vertical field: 50 degree			

RFID parameter			
type	ISO 14443A,ISO 14443B protocol		
operation method	read UID, read the sector of M1 card		
frequency	13.56 Mhz		
distance	< 5cm		



#### 3.3. Electric parameter

The power input can be provided only when the device is connected properly. If the device is plugged in or unplugged while the cable is live (hot plugging), its electronic components will be damaged. Make sure that the power is turned off when plugging and unplugging the cable.

Poor power supply, too short interval power off and on operation may cause the device cannot work in a stable and normal status. It is necessary to keep the power input stable. After turning off the power input, it need to takes more than 2 seconds to turn on the power input again.

Electric parameter				
working voltage	DC 9 – 15V			
working current	80mA (12V typical value)			
power consumption	960mWW (12V typical value)			
relay	DC 30V/1A			

#### 3.4. Work environment

work environment parameter				
ESD protection	Contact discharge 4KV (interface part)			
working temperature	-20°C - 70°C			
storage temperature	-20°C - 70°C			
relative humidity	5% - 95% (no condensation, environment temperature 30°C)			
ambient light	0-80000Lux (Non direct sunlight)			



## 4. Interface definition

MET has two interfaces, 5pin interface and 6pin interface



#### MET 5pin output interface definition:

Pin Nr.	5	4	3	2	1
Pin colour	red	white	blue	black	black
Definition	VCC	DATA -	DATA +	GND	NC

MET 6pin output interface definition:

Pin Nr.	6	5	4	3	2	1
Pin colour	blue	brown	red	black	yellow	purple
Definition	TX -	TX +	RX -	RX +	COM	NO

Note: The MET Ethernet model directly leads four network cable pins, and can be connected to four of the standard eight-core network cables according to the colour

The network cable uses the 568B type connection method.

Refer to the table below and connect the cables according to colour.

MET 6pin output interface and network cable connection instruction:

MET 6-pin wiring colour	blue	brown	red	black
Network cable colour	orange	orange-white	green	green-white



## 5. Device configuration

Use the IDENTconfig tool to configure the device, which can be download from our official website

IDENTconfigv2.3.17.exe

(For more information about the configuration tool, please refer to the IDENTconfig user manual).

Configure the server address as the step shows:

Step 1: select language and device

	- 10 A				-	
					EN	→ Next
Online Devic	ce				1	3
Connect	State: Version:		isconnect			
Offline Devi	ce					
MX86	QT660	MP86	тх	DW100	EC	C900
QT420	JL7066 E2	JL5066	мс	QT960	MET	ace90 2
Q400	MU86	MC10X	QT960J	QT100	Q300 M300	QT510 QT310
		M32	0			



#### Step 2: select output method

		1				
t Password: 1234567	7887654321			$\rightarrow$ Next	→ Main	
Work mode				4		
	Ordinary		○ Develop	-		
Output	1					
O RS485/232	0	Wigan	<ul> <li>Eth</li> </ul>	ernet		
			4	_		
Development mode						
Protocol	485 one more Note: it	takes effect under t	he development mor			
Protocol	485 one more Note: it	takes effect under t	he development mor			
Protocol	485 one more Note: it	takes effect under t	he development mo			
Protocol O	485 one more Note: it	takes effect under t	he development mor			
Protocol     WIFI/Ethernet/2G outp	485 one more Note: it ut set	takes effect under t	he development mor		1	
Protocol     WIFI/Ethernet/2G output     O TCP	485 one more Note: it ut set O TCP protocol	takes effect under t	he development mor	ol/HTTPS protocol		
Protocol     WIFI/Ethernet/2G output     O TCP	485 one more Note: it ut set O TCP protocol	takes effect under t	he development mov	ol/HTTPS protocol		
Protocol     WIFI/Ethernet/2G outp     O TCP	485 one more Note: it ut set O TCP protocol	akes effect under t ● HTTP/HTTPS	he development moi	ol/HTTPS protocol	]	

Step 3: configure the server address and the transfer action.

S dan dan dari se	– – ×
Set Password: 1234567887654321	$\rightarrow$ Return $\rightarrow$ Main
Scan set Advanced Swipe Net configure the transfer behaviour	Config code Save
SuccessAction TCP/UDPPara	Reset Password Exit
FailAction Address: 192.168.1.1	
TCP/UDPPara Port num 8080	click here to generate
HttpPara Receive timeout(<=5) 2	configuration QR-code
HeartSet configure TCP or	
TIP Mode HTTP server adress	00.044.0424
	QR Code Position
MAC addredd	
configure heartbeat (only TCP) or	
static/dynamic IP	



Step 4: use the device to scan the config QR code

R transforder 1			- 🗆 X
Set Password: 12345678	387654321	$\rightarrow$ Return	$\rightarrow$ Main
Scan set Advanced	Swipe Net	Config code	Save
SuccessAction	HttpPara	Reset Password	Exit
FailAction	Address: http://192.168.1.1:8080/test		
TCP/UDPPara	Receive timeout(<=5) 2	121000002	1994 FE
HttpPara		- Highigos	SPACE -
HeartSet		16206	5-53 I
IP Mode	use the scanner scan it	148 A	104 S.
MAC addredd	and then power off and restart the scanner		



## 6. Access scenario application

## 6.1. Using scenario diagram





## 6.2. Access control system wiring diagram





# 8. FAQ

The device cannot connect to the configuration tool.

• When configuring the scanner, please scan the config QR code to config, which means use the config tool to generate the config QR code, and then use the scanner to scan it. (need to power off and restart)

# After the device was configured successfully, scan QR code didn't request upload to the server.

- Please check if the networking was success, can configure the scanner to static IP, and then 'ping' the scanner, to see if it works. If not, check the network connection.
- If the network was normal but still do not have request upload, you may refer to the ID IDENT QR code scanner protocol V2.10, and then debugging the server interface.

#### The server can receive the request but didn't parse the data.

The scanner upload the character string data, it was text formatting data but not JSON data, parse the data as JSON data will not success.

#### After the server returned "code =0000",the scanner didn't output relay signal.

- Please check if you have select the "relay control" in the "success action" part in the IDENTconfig tool.
- Make sure you selected TCP or HTTP or HTTPS in the output set, only in these methods the scanner will return "code=0000".
- The returned "code=0000" was testing formatting, but not JSON data.

# When powered the scanner on, it start normally, but scan the config QR code didn't have response.

• There may be something wrong with the device, please consult our technicians.

# 9. Contact info

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