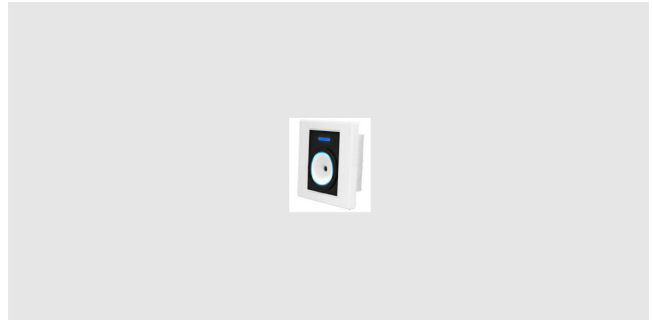




SYRIS SYKD2N-H1 OLED Display Reader User Manual

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SYRIS

SYRIS SYKD2N-H1 OLED Display Reader



Features & Specification

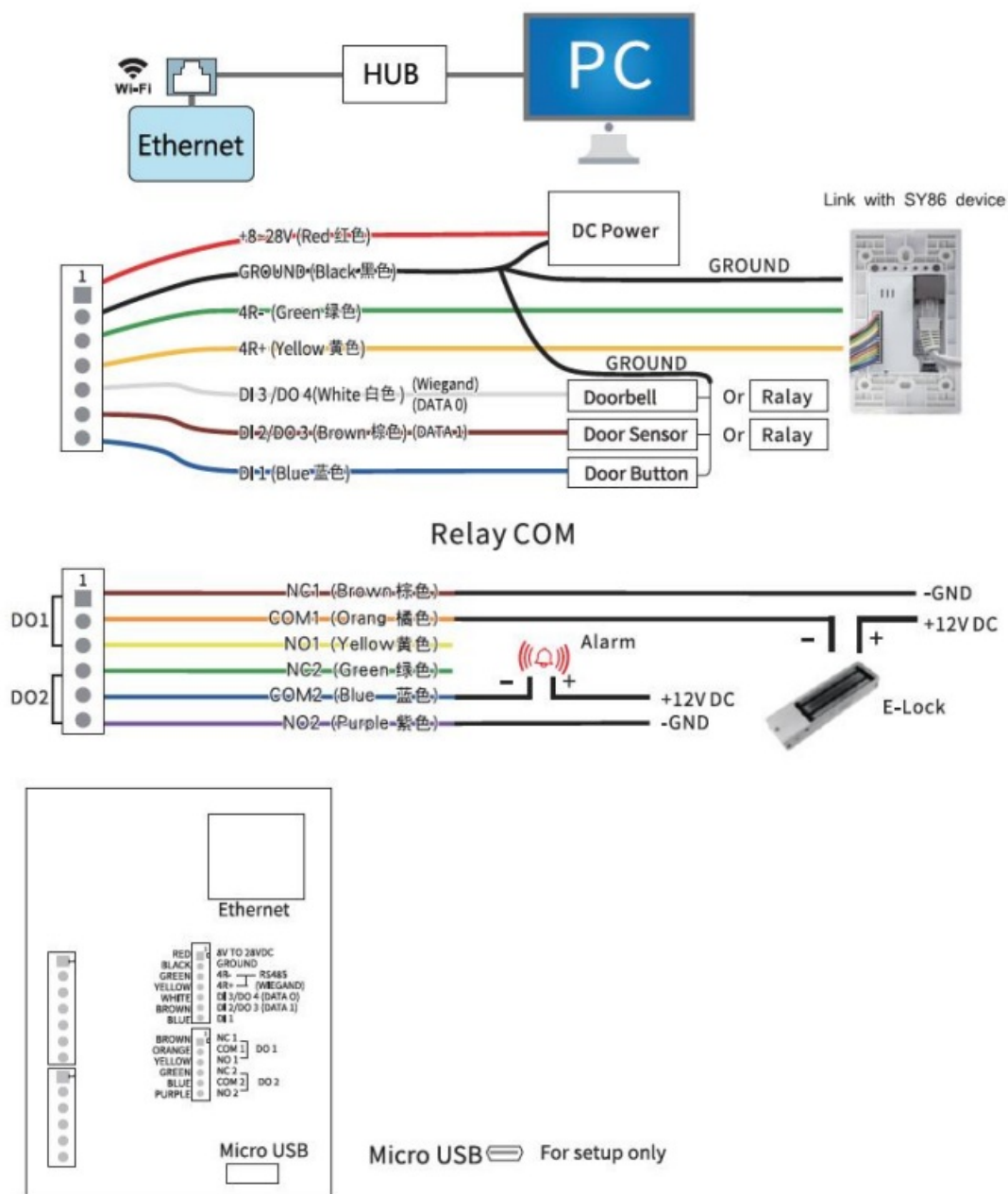
Feature:

- Multi-mode access control
- Support ISO15693 / ISO14443A (Mifare) / ISO14443B / DESFire / NTAG203
- 2.42 inch OLED Display
- Multi communication interface
- Provide protocol to develop.

Specification

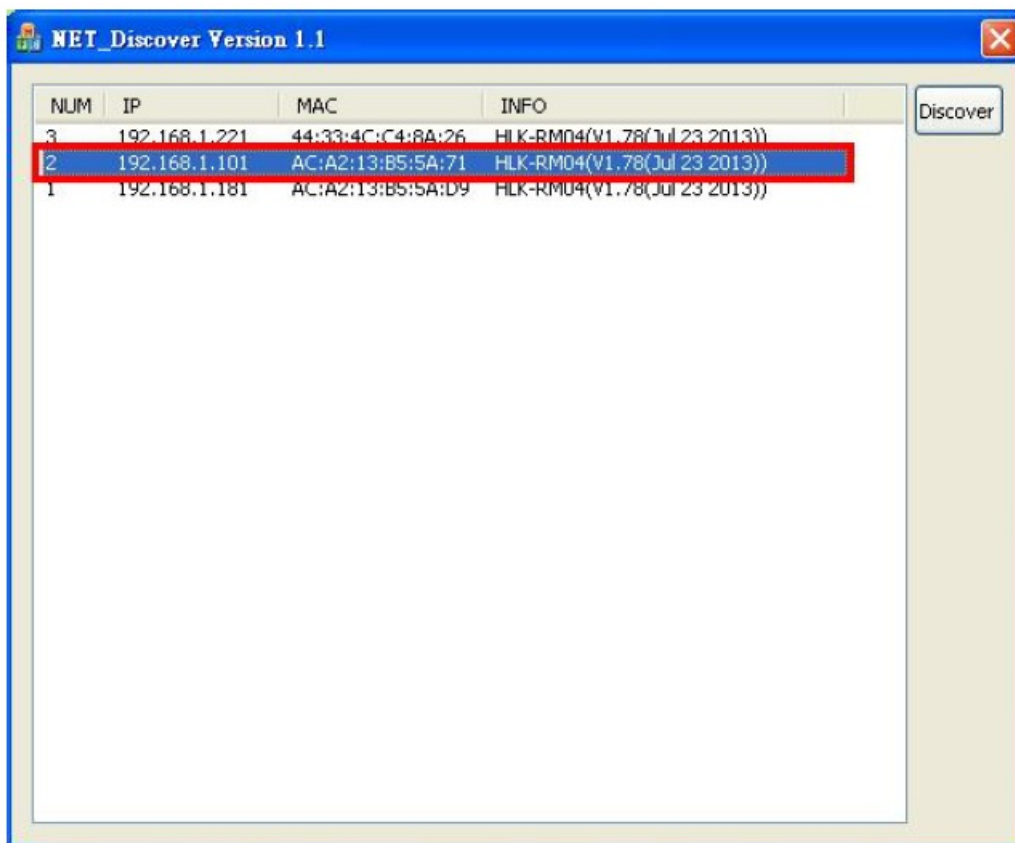
Frequency	13.56MHz
Interface	RS485 / Wiegand / Ethernet / Wi-Fi
Wiegand	Wiegand (support 26/32/34/35/37/42/66 bits)
RS485 baud rate	19,200 bits/sec (4,800~460,800)
Ethernet	10M/100M Ethernet Port
Wi-Fi	802.11 b/g/n
Display	2.42 inch 128 x 64 OLED display
Status Indicator	Tricolor LED(RGB) & Beeper
Keypad	13 capacitive touch button
IR Sensor	1 IR sensor for waving hand to access door (adjustable range 0~10cm)
Digital Input	Up to 3 (1 DI+2 no-voltage DI share the same port with Wiegand)
Digital Output	Up to 4 (2 Relay output+ 2 open collector DO share the same port with Wiegand)
HF Protocols	ISO15693 / ISO14443A / ISO14443B / DESFire / NTAG203
HF Read range	Up to 5 cm
ID	0001~9999
Number of Cards	10000
Capacity of Records	100000
Power Supply	9 ~28 VDC (12 VDC)
Power consumption	1W~6W
Operating temperature	-10°C to 60°C
Dimensions (mm)	124 x 90 x 27mmv

Wiring Diagram

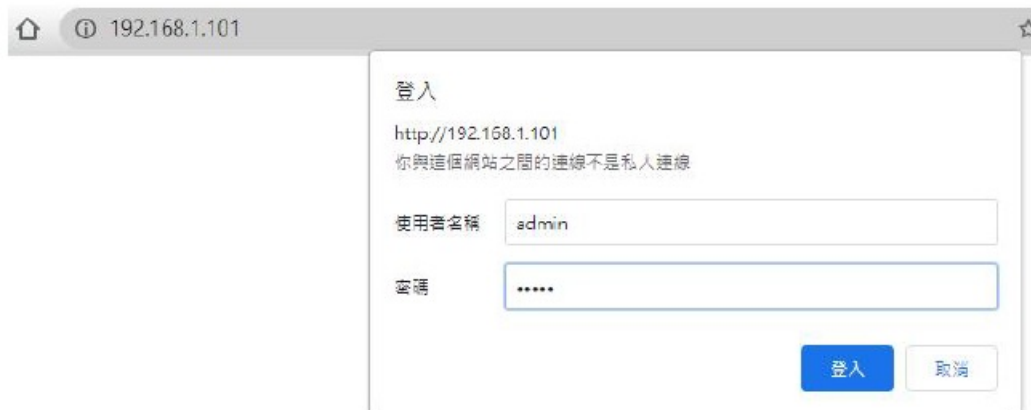


Network Parameter Setting

1. Execute "NET_Discover_V0110.exe" and press to search SYRIS series product.
2. Factory default IP is "192.168.1.101". User can check the MAC address from product sticker with IP to confirm the device.



3. Double click IP (192.168.1.101) to open the web configure page(<http://192.168.1.101>) Default login ID / Password : admin / admin



← → ↻ 🏠
⚠ 不安全 | 192.168.1.101 ☆

Settings

Network

Serial 0

Serial 1

	Current	Updated
Network Mode	Default	Default ▾
IP Type	Static	Static ▾
IP Addr	192.168.1.101	192.168.1.101 ⓘ
Mask	255.255.255.0	255.255.255.0
Gateway	192.168.1.254	192.168.1.254
Dns	192.168.1.254	192.168.1.254
AP Enable	Enable	Enable ▾
AP SSID	SerialWiFi_0EA0	SerialWiFi_0EA0
AP EncType	WPA2AES	WPA2AES ▾
AP Passwd	12345678	12345678
LAN IP Addr	192.168.16.254	192.168.16.254
LAN Mask	255.255.255.0	255.255.255.0
DHCP Server	Enable	Enable ▾

4. Default Net Mode is the same as the following. User can modify Net Mode and other parameters. If device cannot communicate properly after setting, user can reset NET module via Micro USB.

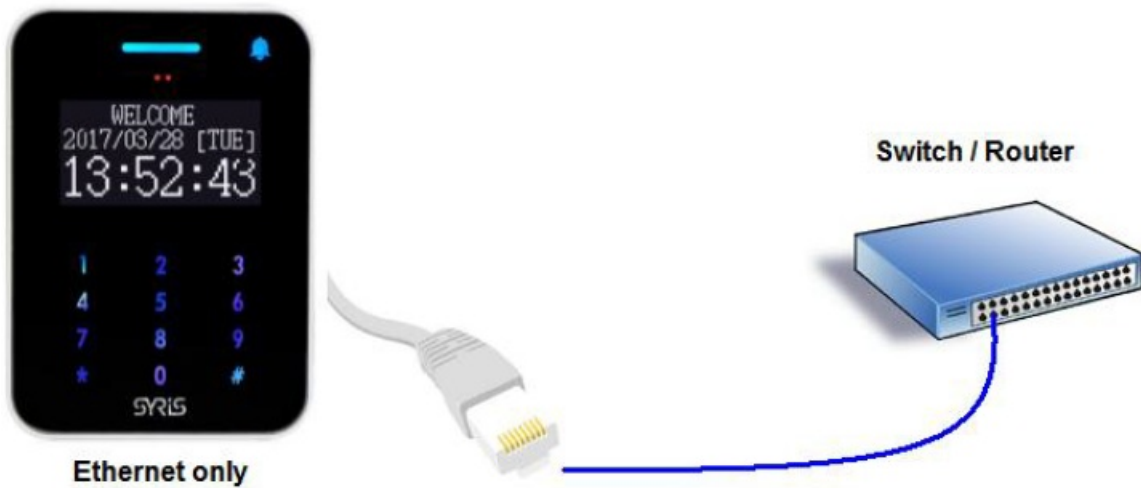
Settings	Network	Serial 0	Serial 1
	Current	Updated	
Baudrate	230400	230400	
Data Width	8	8	
Parity	NONE	NONE	
Stop Bit	1	1	
Flow Control	Disable	Disable	
Socket Protocol Type	Tcp Server	Tcp Server	
Locale Port	5001	5001	
Packet Framing Lenth	1050	1050	
Packet Framing Timeout	3	3	
Packet Framing Interval	3	3	
TCP Timeout	0	0	
Reconnect Interval	200	200	
TCP Keep Alive	1	1	
TCP Max Connect	100	100	
Without data Timeout	60	60	

Communication Parameter	Factory Default
Serial Configure	230400,8,n,1
Serial Framing Length	1050
Locale/Remote Port Number	5001

Network Mode Switch

SYRIS device support 4 network modes: Default ETH(Ethernet) Wi-Fi(STA)

1. ETH Factory default is ETH-SERIAL. (Standard TCP/IP Reader)



When user modify the IP and click on Apply button, device will reboot and apply the setting after 30 seconds.

	Current	Updated
Network Mode	Default	ETH
IP Type	Static	Static
IP Addr	192.168.1.101	192.168.1.101
Mask	255.255.255.0	255.255.255.0
Gateway	192.168.1.254	192.168.1.254
Dns	192.168.1.254	192.168.1.254

2. WIFI(STA) SYRIS can be set to communicate via Wireless AP without Ethernet. STA



Settings

Network

Serial 0

Serial 1

	Current	Updated
Network Mode	Default	WiFi(STA) Scan
STA SSID	Delta-IoT	Delta-IoT Scan
STA EncType	Open	Open
STA Passwd		
IP Type	Static	Static
IP Addr	192.168.1.101	192.168.1.101
Mask	255.255.255.0	255.255.255.0
Gateway	192.168.1.254	192.168.1.254
Dns	192.168.1.254	192.168.1.254

- **STA SSID:** Enter the SSID from AP you will connect to network.
- **Scan :** User can scan AP in range of device and select one to connect. But user cannot scan the AP after

changing default network mode (Ethernet only) to Wi-Fi (Client). Device need to power off ^ on to enable the scan function.

- **STA EncType** : Select Encrypt type for AP connection.
- **Password**: Enter password for AP.
- **IP Type**: DHCP is default mode. If user have to setup a static IP, please select Static.

PS: Wi-Fi MAC address is Ethernet MAC subtract 1. Ex. Ethernet MAC : AC:A2:13:B5:5A:B5 Wi-Fi MAC : AC:A2:13:B5:5A:B4

Default mode Ethernet (DHCP) +Wi-Fi AP mode. It's Dual-Mode (Ethernet and Wi-Fi AP but Ethernet only support DHCP.)



The diagram illustrates the device's connectivity options. On the left, a device with a screen displaying 'WELCOME 2017/03/28 [TUE] 13:52:43' is labeled 'Default mode'. It is connected via an Ethernet cable to a 'Switch / Router'. A wireless signal icon indicates a connection to a 'Computer or Smart phone'. A blue line labeled 'DHCP' connects the device to the Switch / Router, indicating the default network mode.

	Current	Updated
Network Mode	Default	Default
IP Type	Static	Static
IP Addr	192.168.1.101	192.168.1.101
Mask	255.255.255.0	255.255.255.0
Gateway	192.168.1.254	192.168.1.254
Dns	192.168.1.254	192.168.1.254
AP Enable	Enable	Enable
AP SSID	SerialWIFI_0EA0	SerialWIFI_0EA0
AP EncType	WPA2AES	WPA2AES
AP Passwd	12345678	12345678
LAN IP Addr	192.168.16.254	192.168.16.254
LAN Mask	255.255.255.0	255.255.255.0
DHCP Server	Enable	Enable

AP SSID: Setup device's SSID. AP Passwd: Device's Wi-Fi password. (Default is 12345678)

USB Connection

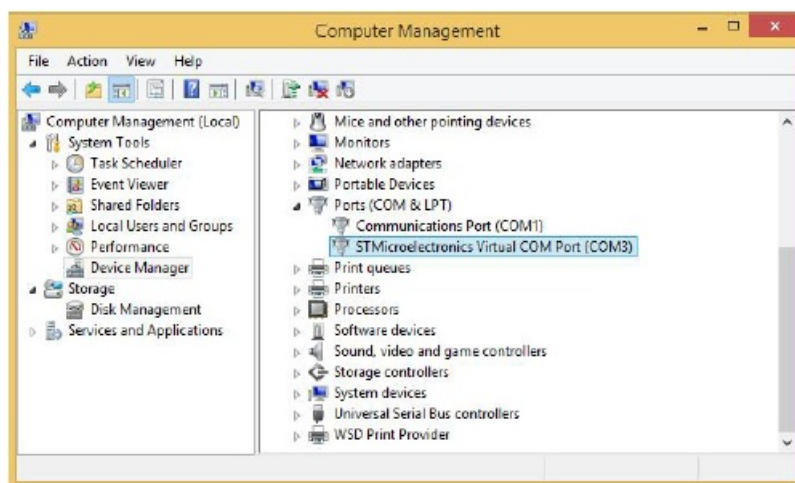
Setup parameters via Micro USB.



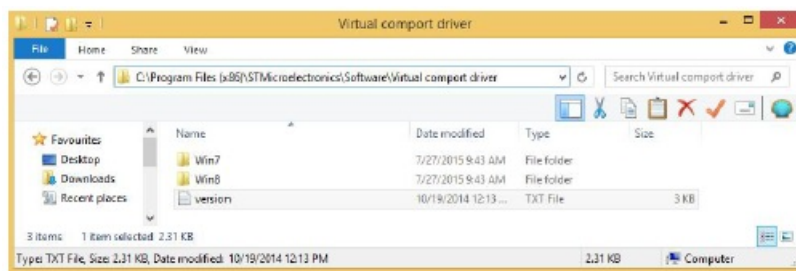
1. Install USB driver "CDC_USB_Driver_VCP_V1.4.0_Setup.exe"

2. System will generate a virtual COM port.

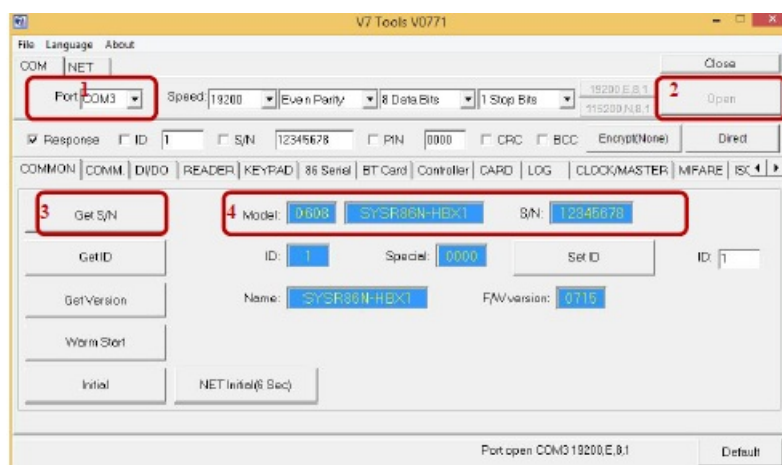
For example. Check port in device manager.(below picture is COM 3)



User also can update driver manually. The driver is saved in the folder that is same as following.

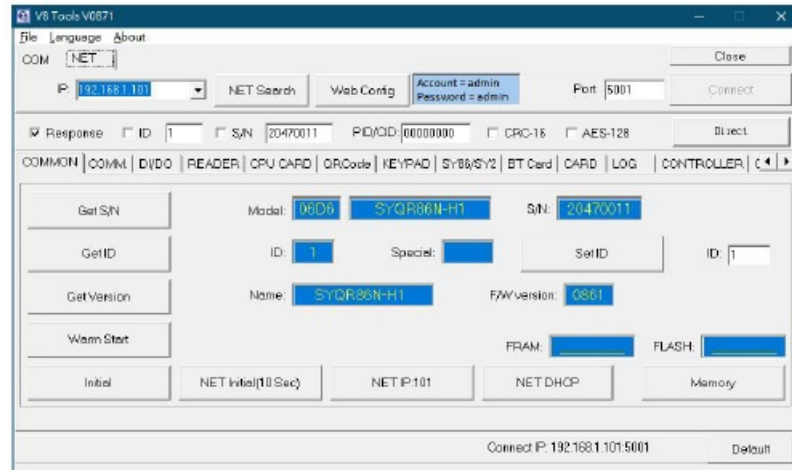


3. Get device Model information and serial number by using V8 Tools with correct COM port or Ethernet connection.



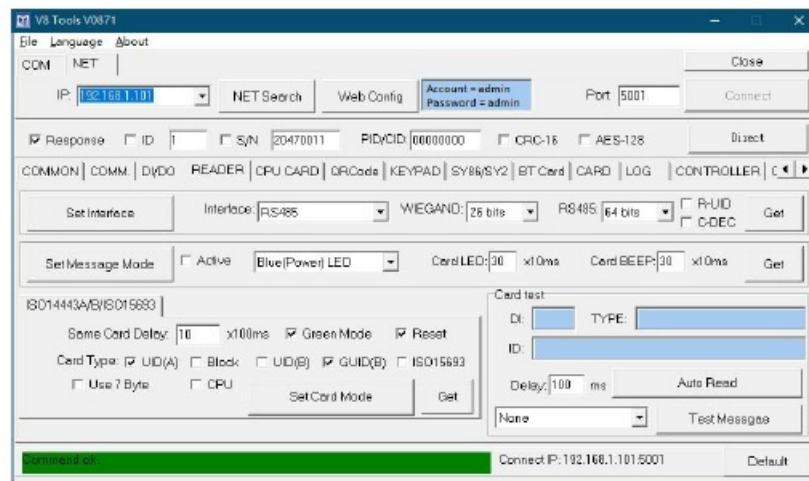
V8 Tools Tool Parameter Setting

1. Basic:



1. Basic: Get device serial number device ID and firmware version
2. Warm Start: Reboot device
3. Initial: Restore device to factory default (It is NOT including network setting).
4. NET Initial (6 sec): Restore network parameter of device to Default mode.

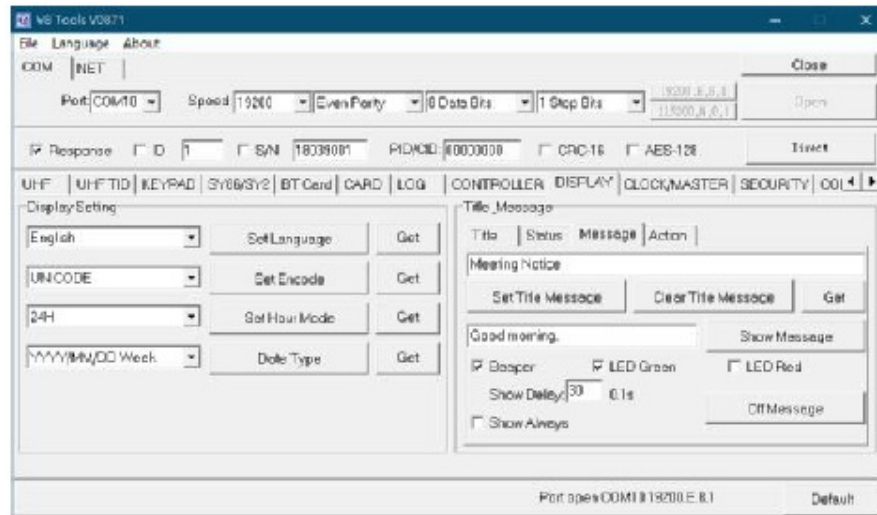
2. Reader



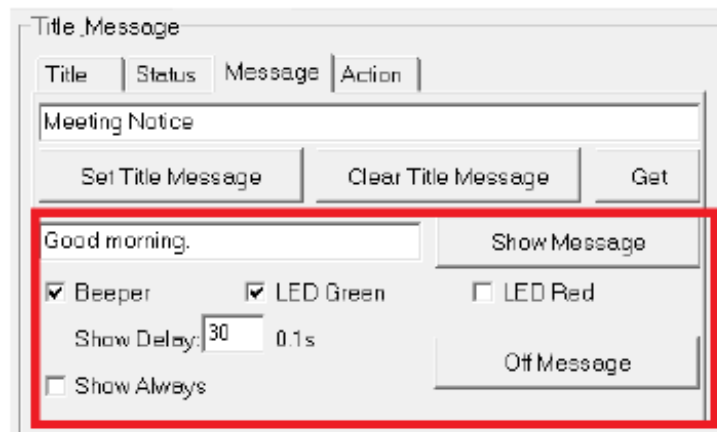
1. Set Interface: Setup reader's communication interface. Default is "RS485".
2. Set Message Mode:
3. Card LED: Time for read card LED ON, default is 30 x 10ms
4. Card Beep: Time for read card beep on, default is 30 x 10ms
5. ISO14443A/B/ISO15693 :
6. Same Card Delay: Setup time gap for reading the same card, default is 10 x 100ms (1 second)
7. Green Mode: Slow down the card read speed to power saving.
8. Reset: Reset RF IC after read card.
9. Card Type: Choose card type to enable device's read specific card.
10. UID(A): Read ISO14443A Card UID.
11. Block: Read Block data (Must disable other card type).
12. UID(B): Read ISO14443B Card UID.
13. GUID(B): Read the China second generation of resident identification card.
14. ISO15693: Read ISO15693 Card UID
15. 7 byte: Read 7byte format Card UID

16. Card Test: Test the reader function.

3. **Display** : Set up display language and encode for different country

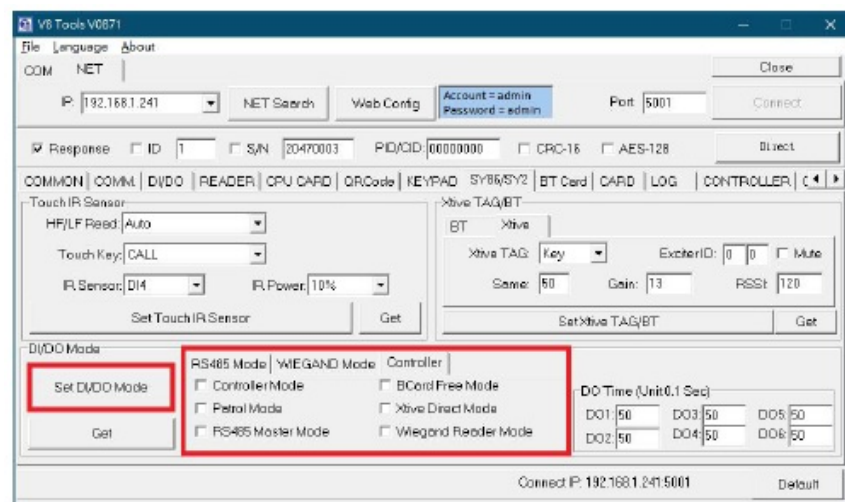


Test send message command with tools.

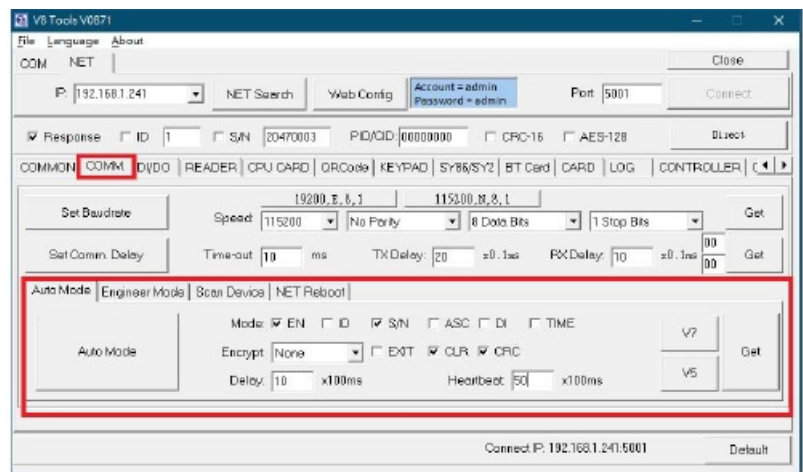


Auto send reader mode

1. Un- Select “Controller Mode” and then click “Set DI/DO Mode” to disable controller mode.



2. Select “EN” (means enable), “S/N”, “CLR”, “CRC” and set heartbeat to 50 (means 5 sec) and then click “Auto Mode” to finish configure



Documents / Resources

SYKD2N-H1 SYRIS TCP/IP OLED Display Reader Operation Manual 	SYRIS SYKD2N-H1 OLED Display Reader [pdf] User Manual SYKD2N-H1 OLED Display Reader, OLED Display Reader, Display Reader, TCP IP
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Manuals+.