

# QR &RFID Reader User Manual



**SSAM electronics**

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# 1. Description

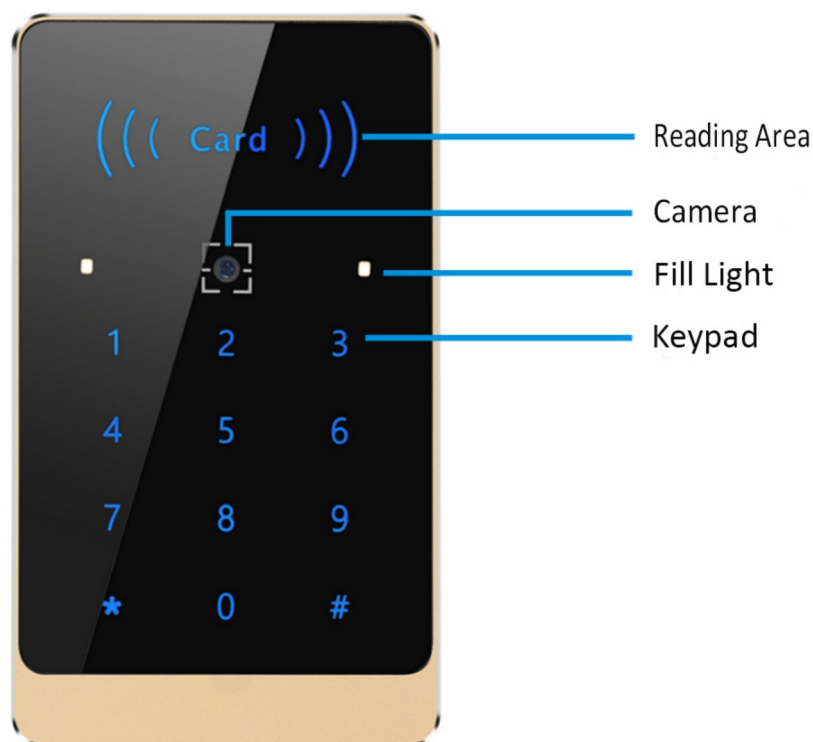
ASCOST\*QR is a high-end smart QR&RFID reader. Aluminium alloy case, 9H stalinite panel, metal texture, scratch resistance. Wide FOV, fast scanning speed, high recognition rate. Good compatibility, support any access controllers with Wiegand/RS485

communication protocol. It can be used in business building, tourist area, community, administrative hall, turnstiles, access control, smart home etc. Offer the best solution for updating traditional access control systems.

ASCOST\*QR can recognize bar-code, QR code, IC card, CPU card, support keypad Input. Easy operation, can scan any QR codes which present on cell phone, paper, metal etc.

# 2. Functions

Different LED color shows different status. Blue means power on; Reading user card, scanning valid QR code and enter valid PIN will show green. As shown below.



RFID Card: Put a card near the Reading Area, buzzer ring and LED shows green. Read card successfully and output data.

QR Code: Put a QR code near the Camera, 5-30cm, buzzer ring and LED shows

green.Scan code successfully and output data.

Notes:

1,Wiegand output:QR code only support figures within 10 digits or 4 bytes data in hexadecimal.Wiegand 26 format support (0-255),(1-65535);Wiegand 34 format support 1-4294967295

2,Keypad:Support three output formats.4 bit,8bit,virtual card number.

4/8 bit format:Each key press outputs a 4/8 bit data,buzzer ring and LED show green;

Virtual card number format:Enter a PIN code then press"#" to output data,when PIN code is over 10 digits,it will output data immediately.Press"\*"to erase.Buzzer ring three times and LED show green;

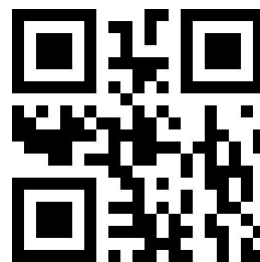
3,Keypad is capacitive,light press will be good.

### 3. Configuration code

Start



Save



QR CODE(10 digits card number output)



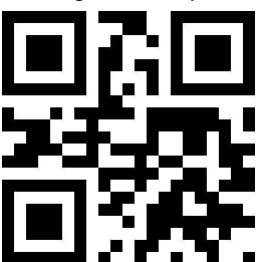
QR CODE(8 digits card number output)



QR CODE(hexadecimal )



Wiegand 26 output



Wiegand 34 output



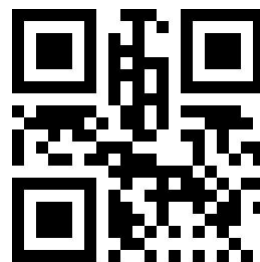
Keypad ( 4 bit )



Keypad ( 8 bit )



Keypad (Virtual card number)



IC Card(positive sequence )



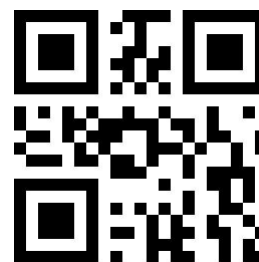
Factory Default



IC Card(inverted sequence)



Factory Default



Scan“start”first,LED will turn Green,you have entered system settings.  
Then scan different configuration codes to configurate, scan “save”to exit.Please finish all the setting in 20 seconds.If no operation in 20s,it will exit system settings automatically

Notes:

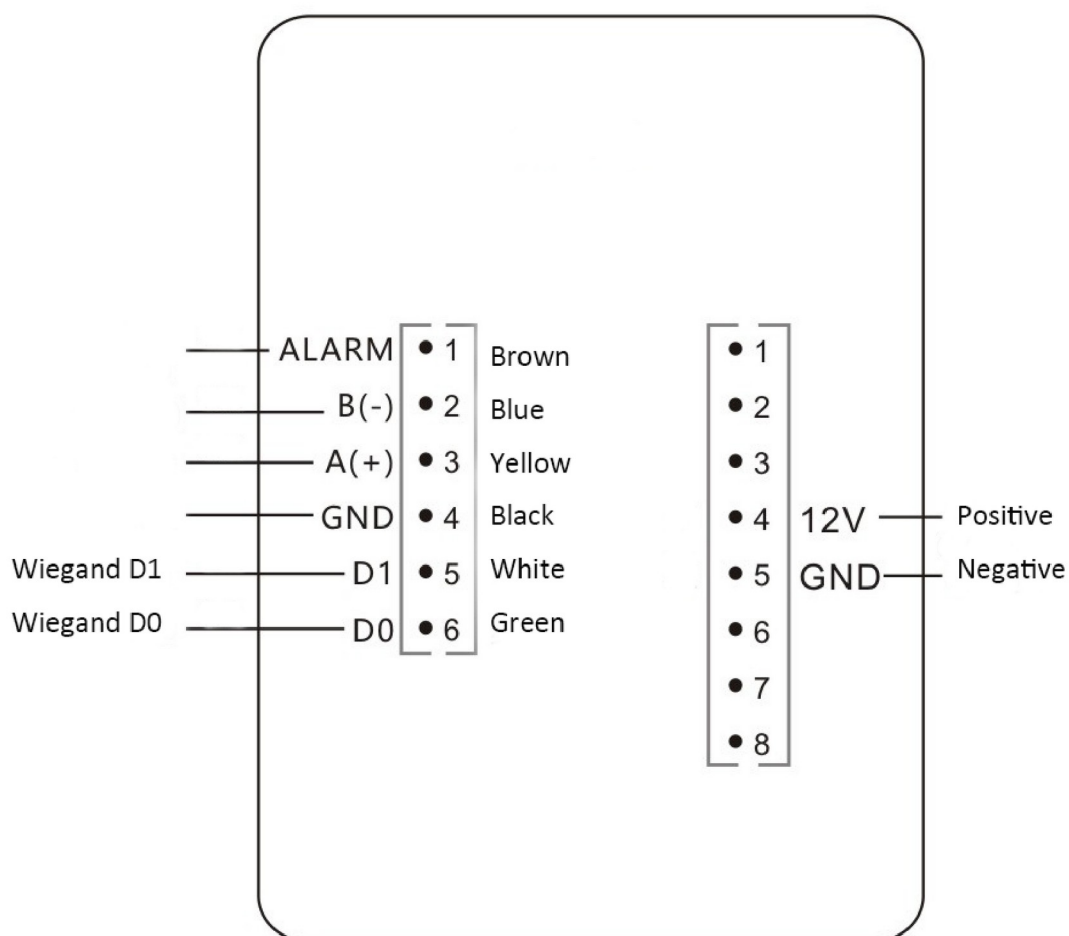
- 1,Factory default is QR CODE(10 digits card number output);Wiegand 34 output;Keypad ( 4bit ) ,IC Card(positive sequence) ; Anti-tamper alarm off.
- 2,If set Wiegand 34 output,QR code will change to 10 digits card number output automatically.If set Wiegand 26 output,QR code will change to 8 digits card number output automatically.

## 4. Specifications

Item number	ASCOST*QR
Output	Wiegand 26 & 34
Support	QR code/IC Card/Keypad
Identify degree	Rotation 360° , Elevation ± 55° , Deflection ± 55°
Scan angle	72° ( Level ) , 54° ( Vertical ) , 84° ( Diagonal )
Support format	2D : QR code,Data Matrix,PDF417 1D : EAN-8, EAN-13, UPC-A, UPC-E, Code 39, Code 93, Code 128, Code 128C, UCC/EAN 128, Codabar, Interleaved 2 of 5, ITF-6, ITF-14, ISBN, GS1 Databar, GS1 Composite Code, Matrix 2 of 5,Code 11, Industrial 25, Standard 25, Plessey, MSI-Plessey etc.
Operation Temp	-20°C-60°C
Humanity	5%-95% (non-condensing)

Reading speed	<200ms
Power	DC12V 500mA (5-24V available, but 12V is highly recommend)
Dimension	L108.8*W63.8*H12.7 mm
Reading distance	5~30 CM

## 5. Diagram



## 6. Test code



34bit 10-stellige Kartnummer  
1234567890



34bit 10-stellige Kartnummer  
23089362