Seuic

Fixed Scanner

X4-1EF

Quick Start Guide V1.0

Introduction

Read this instruction manual before using the product in order to achieve maximum performance.

After reading it, keep the manual always at hand for future reference.

The following symbols alert you to important messages. Be sure to read these

WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE	Indicates a situation which, if not avoided, could result in product damage as well as property damage.

Safety Information for X4

WARNING	• This product is not intended for use as explosion-proof product. Do not use this product in hazardous location and/or potentially explosion atmosphere.
CAUTION	• You must verify that the X4 Series are operating correctly in terms of functionality and performance before the start and the operation of the X4. • We recommend that you take substantial safety measures to avoid any damage in the event of a problem occurring.
NOTICE	• SEUIC never warrant the function or performance of the X4 Series if it is used in a manner that differs from the X4 Series specifications contained in this instruction manual of if the X4 Series are modified by yourself. • When the X4 Series is used in combination with other instruments, functions and performance maybe degraded, depending on operating conditions and the surrounding environment.

Safety Precautions on LED Product

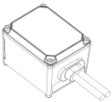| WARNING	• Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure. • Do not stare into the beam. • Do not disassemble this product.

Precautions on Proper Use+

NOTICE	• Do not use a voltage other than that described in the specifications with the X4 Series. Doing so may cause damage to the unit. • Be sure to turn off the power to devices attached to the X4 Series when you plug in or unplug the cables. Failure to do so may cause damage to the X4 Series. • Do not disassemble or modify the X4 Series. Doing so may cause damage to the unit. • Place cables as far away as possible from high-voltage lines and power lines. Otherwise, electrical noise can be generated that may cause a product failure or malfunction. • The X4 Series is a precision instrument. Do not impact or drop the instrument. Pay particular attention when transporting or installing the unit. • Do not allow water, oil, dust, or other foreign substances to stick to the scanner. This may cause read errors. Use a soft, dry cloth to wipe any substance from the scanner. (Do not use a cloth dipped in alcohol or other cleaning agent.) • Do not turn off the power of the X4 Series while accessing files. The internal data may be corrupted.

CE,FCC and RoHS Certificate

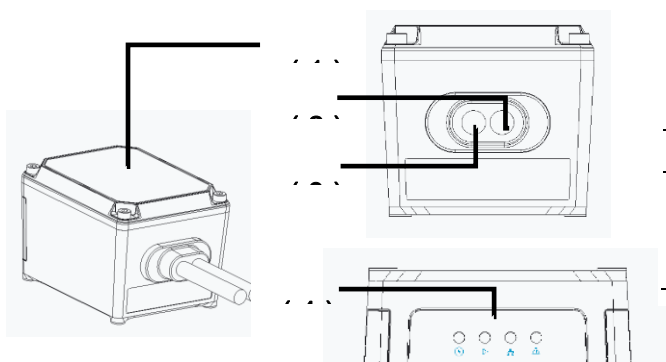This product complies with the following CE,FCC and RoHS and has been certified by CE,FCC and RoHS.

Package Contents
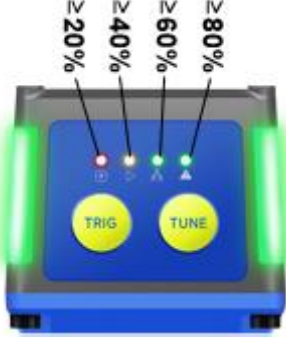
Model	Name	Package content	Qty.	Appearance
X4	Fixed Scanner	Reader unit	1	
		Quick Start Guide	1	
		Mounting bracket	1	

Option

Model	Name	Package content	Qty.	Appearance
X4Pro-RS232&R485&IO_CBL	RS232 Cable	Cable (2m/5m/10m)	1	
X4Pro-RJ45PLUG_CBL	Eth Cable	Cable (2m/5m/10m)	1	
X4Pro-USB_CBL	USB Cable	Cable（2m/5m）	1	
X4Pro-24V_CBL	Power Adapter	Power Adapter	1	
X4-Polarizer	Attachment	Reflector Attachment	1	
X4-Window		Standard Attachment	1	

Part Names

No.	Name	Description
（1）	Scanner	Section that reads codes
（2）	RS232/IO port	Port for connecting the RS232 Cable
（3）	USB/ Ethernet port	Port for connecting the USB cable or Eth Cable
（4）	⚡	Power LED: It turns on when the X4 is connected to the external power supply.
	▷	Learn LED: Enter the Learn function by pressing and holding the TUNE button about 3s until the Learn LED is on, Release the button and press it again to enter the Learn function. The Learn LED start blinking until the Image Processing and Decoding parameters for a single code are successfully saved in the reader memory. If the autolearning cannot be reached after a few minutes, you can exit the function by pressing the Tune button once.
	OK/NG LED	Indicates whether the reading is possible or not. OK: Green, ERROR: Red.
	品	COM LED: Green LED indicates active communication on the main port
	⚠	Test Mode: Enter the Test Mode by pressing and holding the TRIG button about 10s until the Test LED is on, then release the button and press it once. When the scanner entered Test Mode, the Bar Graph on the four LEDs is activated and if the imager starts reading codes the Bar-Graph shows the Good Read Rate: Exit the Test Mode by pressing the TRIG button once.
（5）	TUNE	Enter the Learn function button
（6）	TRIG	Press once to read the barcode Enter the Test Mode button（10s）

1. Align the protrusion in the cable connector with the notch in the control port.
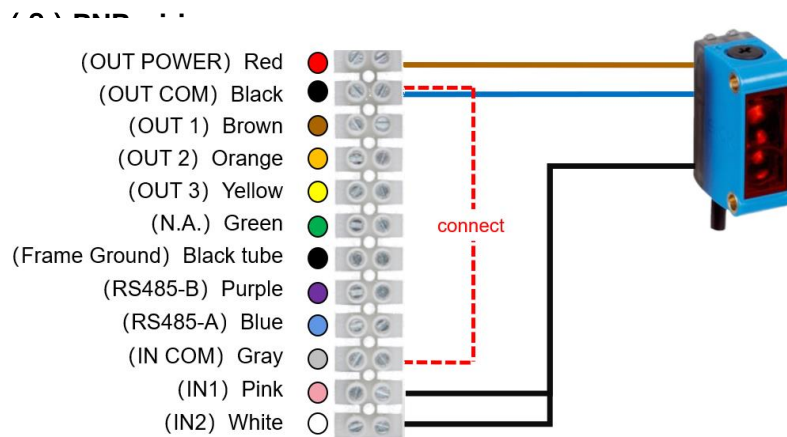
Serial port and I/O cable
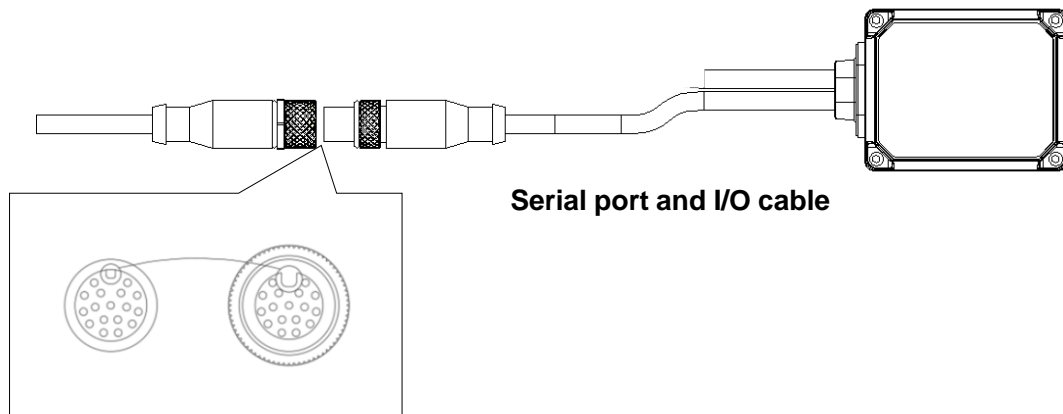
2. Tighten the connector screw by turning it clockwise.
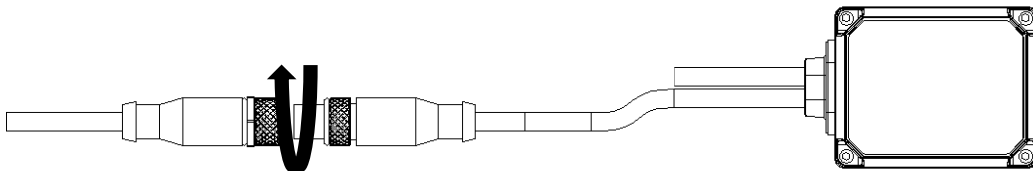
3. Connect the wires according to usage.

（1）NPN wiring

(OUT POWER) Red
(OUT COM) Black
(OUT 1) Brown
(OUT 2) Orange
(OUT 3) Yellow
(N.A.) Green
(Frame Ground) Black tube
(RS485-B) Purple
(RS485-A) Blue
(IN COM) Gray
(IN1) Pink
(IN2) White

connect

(2) PNP wiring

(OUT POWER) Red
(OUT COM) Black
(OUT 1) Brown
(OUT 2) Orange
(OUT 3) Yellow
(N.A.) Green
(Frame Ground) Black tube
(RS485-B) Purple
(RS485-A) Blue
(IN COM) Gray
(IN1) Pink
(IN2) White
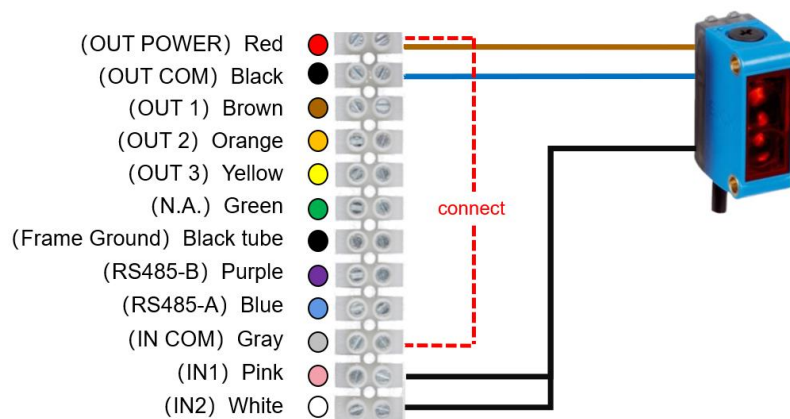
connect

(3) Output wiring (signal tower light)

(OUT POWER) Red
(OUT COM) Black
(OUT 1) Brown
(OUT 2) Orange
(OUT 3) Yellow
(N.A.) Green
(Frame Ground) Black tube
(RS485-B) Purple
(RS485-A) Blue
(IN COM) Gray
(IN1) Pink
(IN2) White
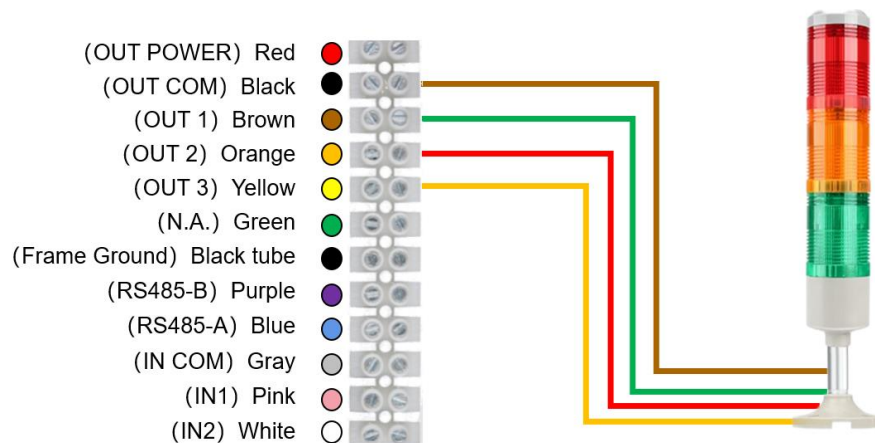
NOTICE	Be sure to turn power off before attempting to connect or disconnect the control cable.
	Insert the connector straight so that it is not tilted and then tighten it securely. Under-tightening can lead to a loose connector due to vibrations, resulting in poor contact.
	Insulate unused wires individually

1. Align the protrusion in the cable connector with the notch in the Ethernet(USB) port and connect the cable to the main unit.
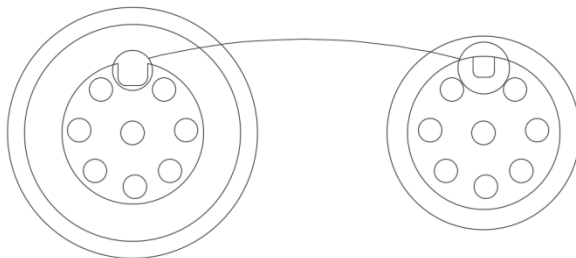
2. Tighten the connector screw by turning it clockwise.

ETH or USB cable
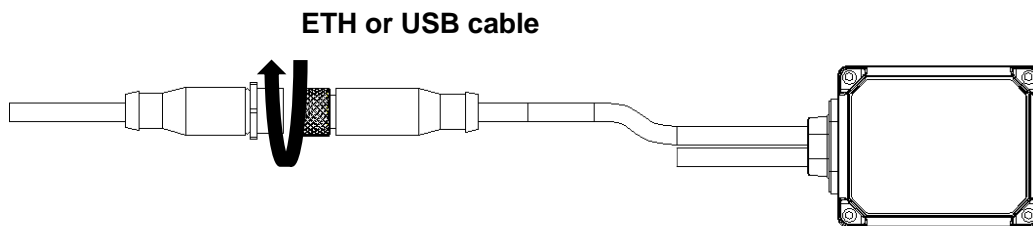
Mounting Methods

1. Secure the X4 unit with screws.

(Mounting screws are included in the package)

2. When using the mounting bracket
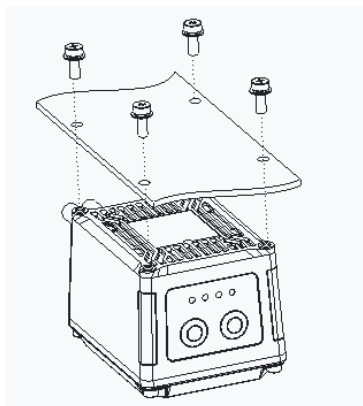
Field of View and Installation Distance

Distance(mm)	2D	Distance (mm)	1D
50 - 83	2mil	50-230	3.3mil
50-125	3.3mil	45-400	5mil
50-230	5mil	45-560	7.5mil
45-450	10 mil	40-600	10mil
40-600	20 mil		

Distance (mm)	Field of View (mm)	
50	21	50
100	47	100
180	77	180
310	132	310
350	149	350
450	192	450
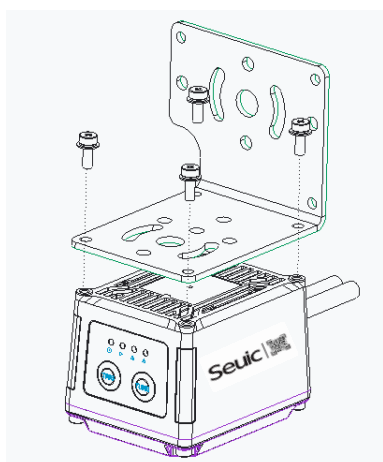
Specifications

Model			X4-1EF
Receiver	**Sensor**		CMOS Image Sensor with global shutter
	Number of pixels		1.3M，1280 x 1080
Light emitter	**Light source**		High-intensity red LED and blue LED
	Aimer		Laser dual-point positioning aimer Class II
Focus adjustment			Automatic
Reading specifications	**Supported symbol**	**1D**	Code128,GS1 128,Code39,Code93,codabar,2of5 (Industrial 2of5),EAN/UPC
		2D	QR、DataMatrix（ECC200）、PDF417、Micro PDF417
	Minimum resolution	**1D**	3.3mil
		2D	2.0mil
	Reading distance		50mm to 450mm
I/O specifications	**Control input**	**Points**	2
		Input type	Bidirectional voltage input
		Maximum rating	30V
		Minimum ON voltage	＜4V
		Maximum OFF current	0.001A
	Control output	**Points**	3
		Output type	3 optocoupler output
		Maximum rating	30V
		Maximum load current	1 output: 50 mA or less, 3-output total: 100 mA or less
		Leakage current when OFF	0.1 mA or less
		Residual voltage when ON	1 V or less
	Ethernet	**Supported protocol**	TCP/UDP
	Serial communication	**Communication speed**	115200/57600/38400/19200/9600 bps
		Supported protocol	RS232/RS485
	USB	**Communication standard**	USB 2.0 Full Speed compliant
Environmental Resistance	**Enclosure rating**		IP65
	Ambient temperature		0° to 50°C
	Ambient storage temperature		-20°C to 70°C
	Relative humidity		5 to 95% RH (No condensation)
	Storage ambient humidity		5 to 95% RH (No condensation)
	Ambient light		0 to 10000 lux
	Operating environment		No dust or corrosive gas present
Rating	**Power supply voltage**		10 to 30V DC
	Current consumption		0.5 to 1.5 A
Weight			Approx.215 g
Dimensions　(L x W x H)			61.2 mm x 48.7 mm x 43.8 mm

43.80

320

61.20

52.50

4-M3深5

40.00

48.70

65.00

60.00

4.50 40.00

3.75

30.00

52.50

4.50

19.00

6.30

25.40
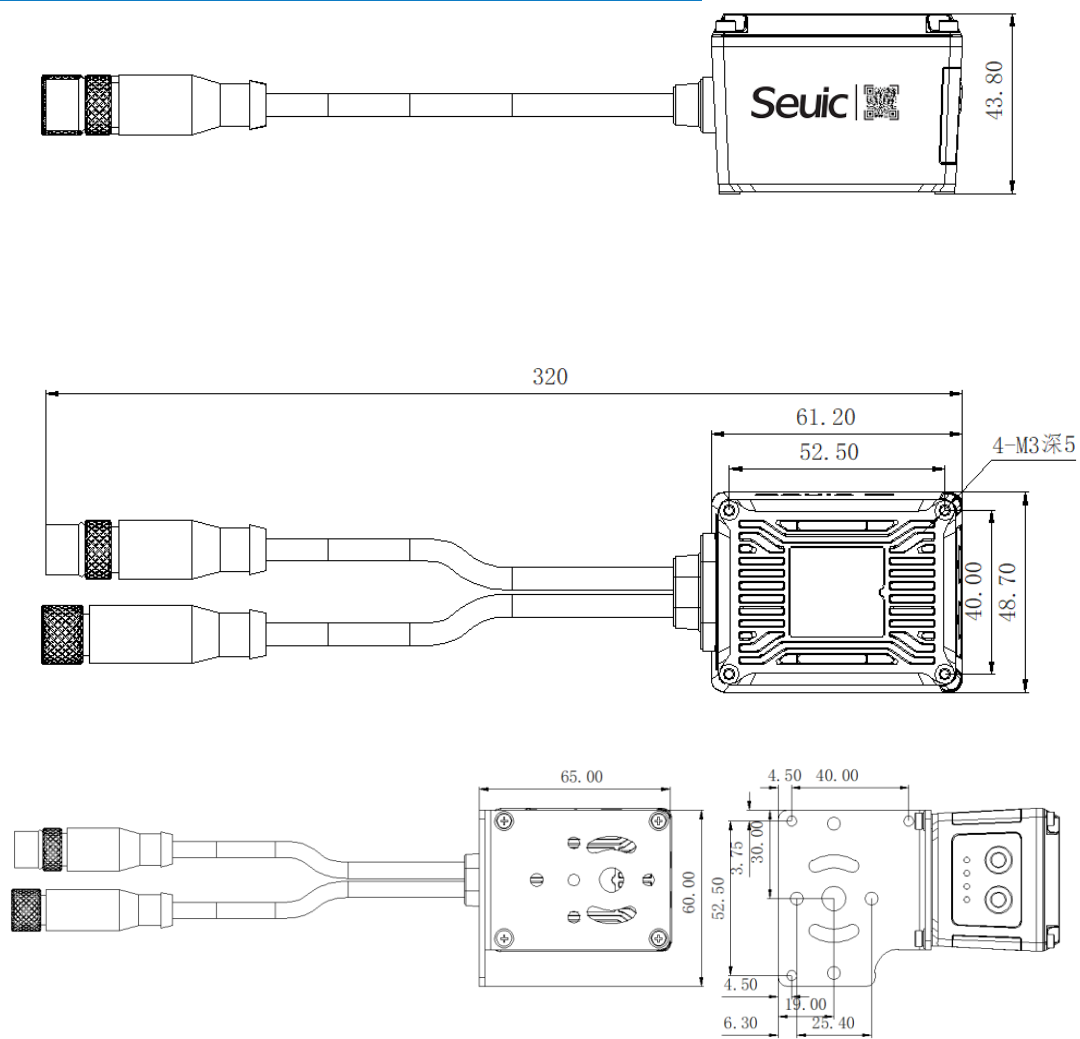
Product Quick Configuration Codes

Interface Settings

TCP-Server

TCP-Client

RS-232

RS-485

USB COM

USB HID

Technical Support

You can download technical documents useful for product introduction and operation.

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