

## User Manual Utilities ISU-01



Designed and manufactured by Austin Hughes

#### Legal Information

First English printing, October 2020

Information in this document has been carefully checked for accuracy; however, no guarantee is given to the correctness of the contents. The information in this document is subject to change without notice. We are not liable for any injury or loss that results from the use of this equipment.

#### Safety Instructions

## Please read all of these instructions carefully before you use the device. Save this manual for future reference.

- Unplug equipment before cleaning. Don't use liquid or spray detergent; use a moist cloth.
- Keep equipment away from excessive humidity and heat. Preferably, keep it in an air-conditioned environment with temperatures not exceeding 40° Celsius (104° Fahrenheit).
- When installing, place the equipment on a sturdy, level surface to prevent it from accidentally falling and causing damage to other equipment or injury to persons nearby.
- When the equipment is in an open position, do not cover, block or in any way obstruct the gap between it and the power supply. Proper air convection is necessary to keep it from overheating.
- Arrange the equipment's power cord in such a way that others won't trip or fall over it.
- If you are using a power cord that didn't ship with the equipment, ensure that it is rated for the voltage and current labelled on the equipment's electrical ratings label. The voltage rating on the cord should be higher than the one listed on the equipment's ratings label.
- Observe all precautions and warnings attached to the equipment.
- If you don't intend on using the equipment for a long time, disconnect it from the power outlet to prevent being damaged by transient over-voltage.
- Keep all liquids away from the equipment to minimize the risk of accidental spillage. Liquid spilled on to the power supply or on other hardware may cause damage, fire or electrical shock.
- Only qualified service personnel should open the chassis. Opening it yourself could damage the equipment and invalidate its warranty.
- If any part of the equipment becomes damaged or stops functioning, have it checked by qualified service personnel.

#### What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
  - □ Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
  - Repair or attempted repair by anyone not authorized by us.
  - □ Any damage of the product due to shipment.
  - □ Removal or installation of the product.
  - $\hfill\square$  Causes external to the product, such as electric power fluctuation or failure.
  - $\hfill\square$  Use of supplies or parts not meeting our specifications.
  - □ Normal wear and tear.
  - □ Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

#### **Regulatory Notices Federal Communications Commission (FCC)**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in business, industrial and commercial environments.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-position or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Notice : The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted. Any change to the antenna or the device could result in the device exceeding the RF exposure requirements and void user's authority to operate the device.

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## < Part 1 > Required Cables



Below cable not provided

#### **1** Cat5 Cable

- For connection between Junction Box & Handle / Control Panel
- The cable length can be customized subject to rack size
- NOT provided



## < Part 2 > Package Contents

#### Unpacking

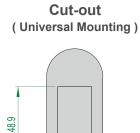
The equipment comes with the standard parts shown on the package contents. Check and make sure they are included and in good condition. If anything is missing, or damage, contact the supplier immediately.

	S-701P	S-702P	S-701M	S-702M
① Handle, pair	Drevinsity	Drevinsity	MiFARE	MiFARE
② SmartCard, 1pc	Proximity	Proximity	MIFARE	MIFARE
③ Control panel	1	2	1	2
④ Connector box	1	2	1	2
(5) Connector box to handle cable	1	2	1	2
6 Control panel screw set	1	2	1	2
⑦ Junction box	1	1	1	1
⑧ Key	1	1	1	1
(9) Power cord, 6ft	1	1	1	1
Mounting set for 2 handles	1	1	1	1
① Cable clip	8	8	8	8
(2) Door sensor, pair ( IR or mechanical )	1	1	1	1



## < Part 3 > Key Hardware < 3.1 > Handle

Unit : mm



24.3

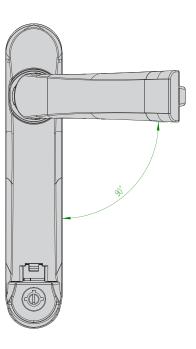
24.3

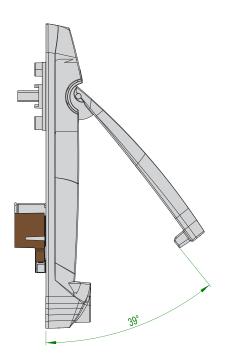
60.4

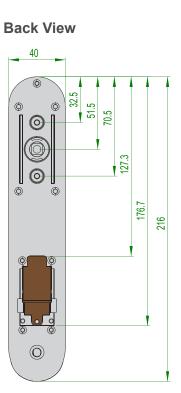
40.2



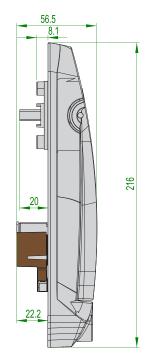
Side View Open







Side View Close

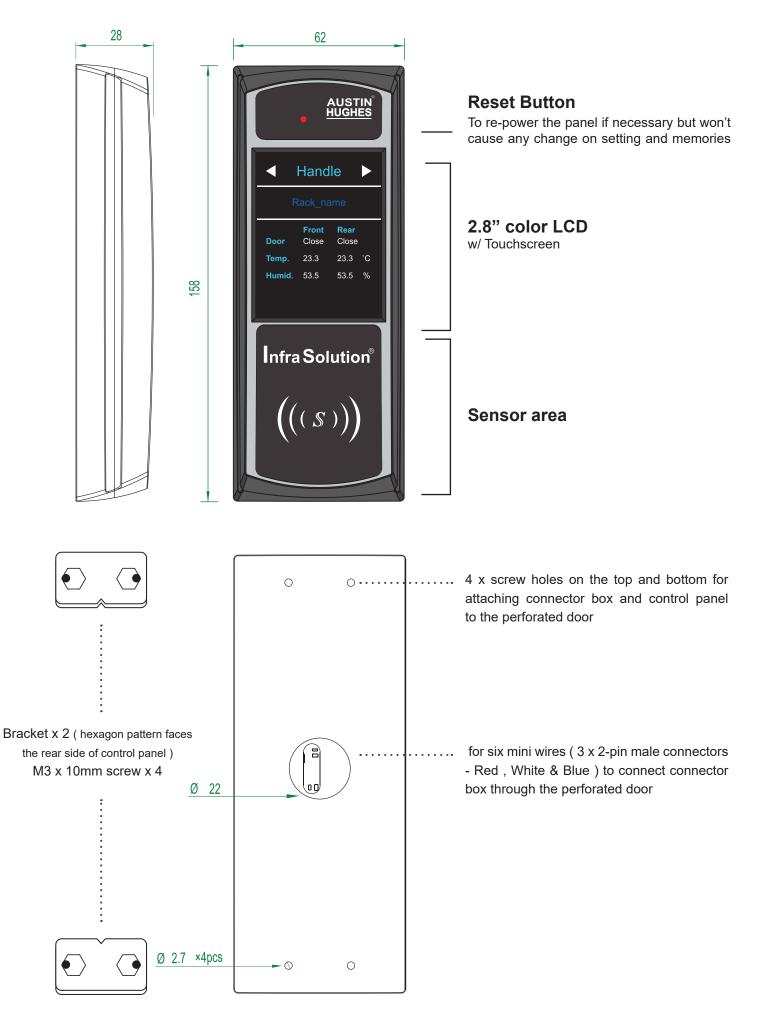


	Connect door sensor cable (Mechanical / IR)
2	To Connector Box via bundled Cat5 cable (400mm)
3	Connect Temp. / TH sensor

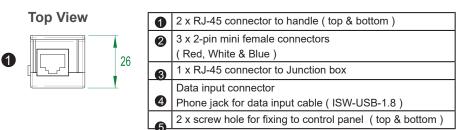


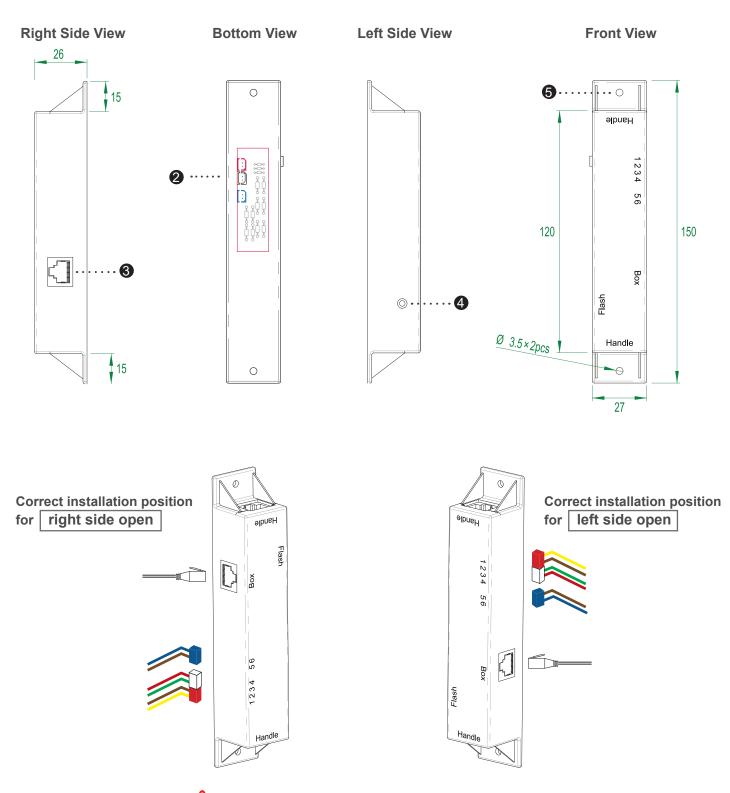


## < 3.2 > Control Panel



### < 3.3 > Connector Box



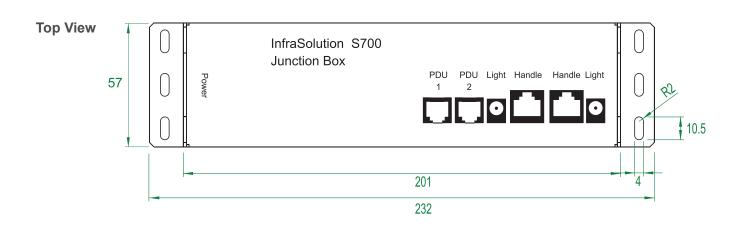


Incorrect installation may cause installation difficulties

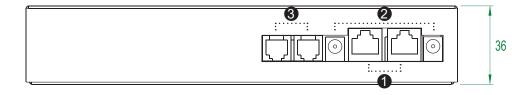
## < 3.4 > Junction Box

### Junction box dimension :

Unit : mm



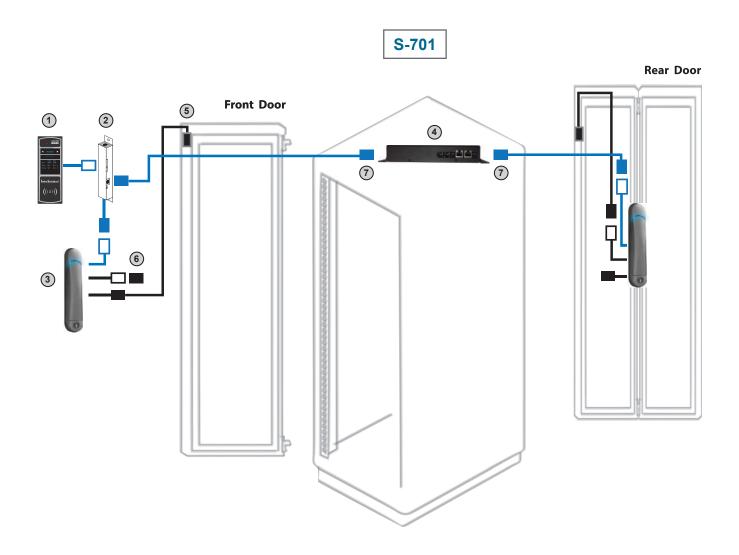
#### **Front View**



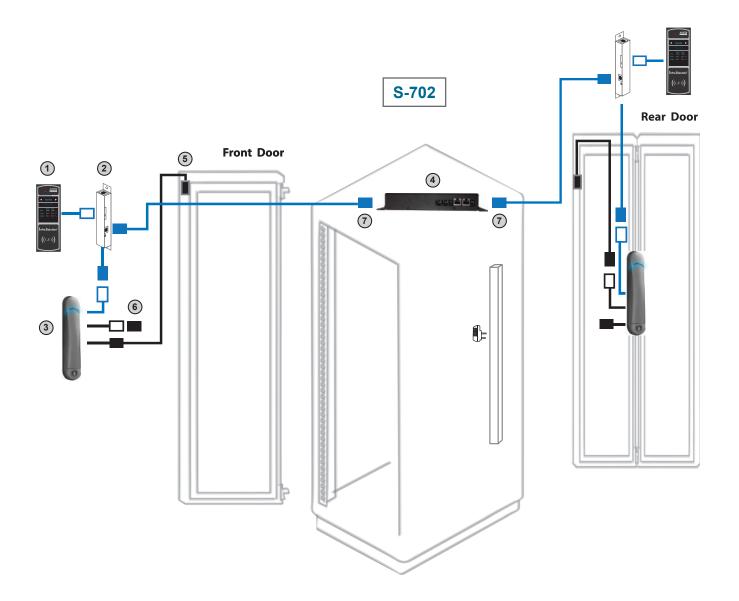
0	2 x RJ-45 connectors to handle / connector box
2	2 x IR LED light bar connectors
6	2 x RJ-11 connectors to TH2 port of W3 PDU meter

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## < Part 4 > Installation < 4.1 > Installation Diagram

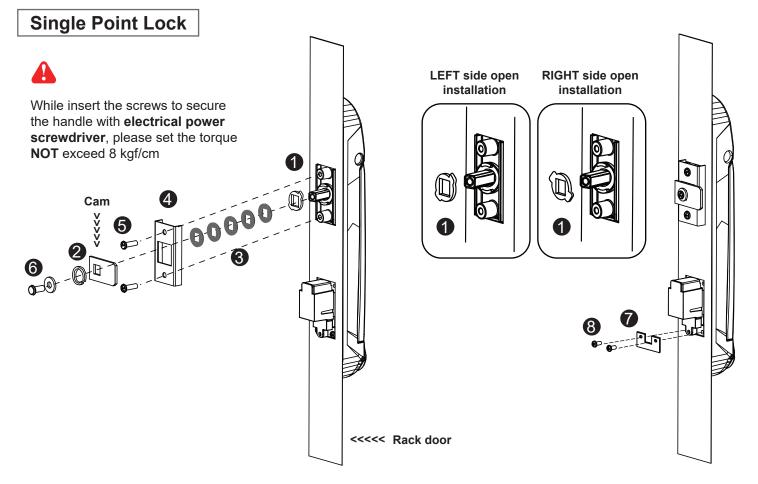


- 1 Control Panel \* Please refer to Package Contents on P.2
- 2 Connector Box
  - for data input / configuration
- S-700 SmartCard handle
   Proximity or MiFARE
- Junction Box
  - data communication for control panels & handles
  - provides connectors for light bar & W3 PDU integration
  - built-in power adapter
- 5 Door sensor with 2m cable
  - for front & rear doors
- 6 Temp. / TH sensor connector
- ⑦ Cat5 cable
  - for connection between junction box & handle / control panel
  - The cable length can be customized subject to rack size
  - NOT provided



- 1 Control Panel \* Please refer to Package Contents on P.2
- 2 Connector Box
  - for data input / configuration
- S-700 SmartCard handle
   Proximity or MiFARE
- Junction Box
  - data communication for control panels & handles
  - provides connectors for light bar & W3 PDU integration
  - built-in power adapter
- 5 Door sensor with 2m cable
  - for front & rear doors
- 6 Temp. / TH sensor connector
- ⑦ Cat5 cable
  - for connection between junction box & handle / control panel
  - The cable length can be customized subject to rack size
  - NOT provided

## < 4.2 > Handle



- 1. Insert **1** metal washer and **3** metal square hole washers to the spigot of the smartcard handle.
- 2. Number of metal square hole washer can be adjusted depends on the thickness of the Cam.
- 3. Place the **(4)** handle mounting bracket with **(5)** M4 x 9mm screw x 2 to secure the handle.
- 4. Insert the **6** M6 x 10mm screw x 1 with circle hole washer and **2** metal circle hole spring washer to secure the **Cam** to the handle.

Note : - Custom Cam is required if it can not fit the locking position after adjustment.

- Custom Cam service available on request.

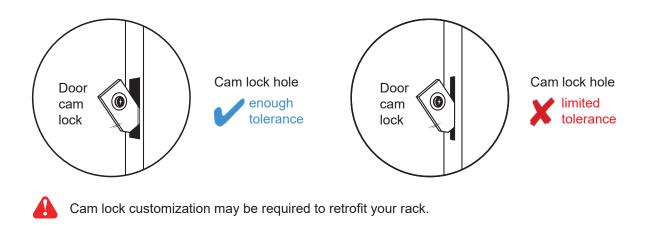
5. Place the **7** U bracket with **8** M3 x 10mm screw x 2 to further secure the handle in place.

		Qty.
	Metal washer ( related to Left or Right side open )	2
	Metal circle hole spring washer	2
Ğ	Metal square hole washer	10
	Handle mounting bracket	2
	M4 x 9mm screw for	4
6	Circle hole washer w/ 4.6 x 10mm screw	2
6	U bracket	2
0	M3 x 10mm screw for	4
8	7	

#### Mounting set for 2 handles ( A No. of item 3 required is subject to the locking system design )

Pay attention to the below. Otherwise, it may cause operation problem.

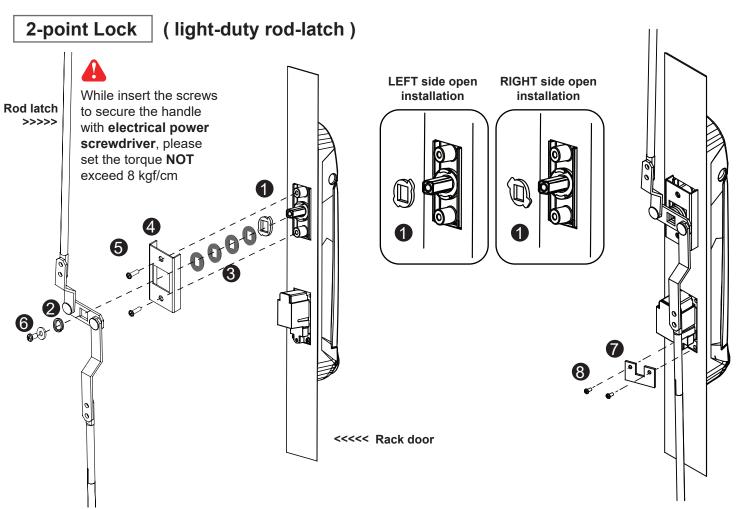
- 1. Make sure ① Cam lock can slide into the hole without stress.
  - **2** The cut-out of the cam hole with enough space tolerance.



2. Make sure the rack doors are rigid and no bending.



## < 4.2 > Handle



- 1. Insert **1** metal washer and **3** metal square hole washers to the spigot of the smartcard handle.
- 2. Number of metal square hole washer can be adjusted to fit locking position on top & bottom .
- 3. Place the handle mounting bracket with **(5)** M4 x 9mm screw x 2 to secure the handle.
- 4. Insert the **6** M6 x 10mm screw x 1 with circle hole washer and **2** metal circle hole spring washer to secure the **Rod-latch** to the handle.
- 5. Place the **7** U bracket with **8** M3 x 10mm screw x 2 to further secure the handle in place.

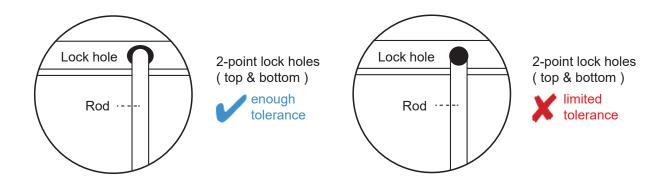
		Qty.
	Metal washer ( related to Left or Right side open )	2
	Metal circle hole spring washer	2
	Metal square hole washer	10
	Handle mounting bracket	2
	M4 x 9mm screw for	4
6	Circle hole washer w/ 4.6 x 10mm screw	2
6	U bracket	2
0	M3 x 10mm screw for	4
8	7	

#### Mounting set for 2 handles ( A No. of item 3 required is subject to the locking system design )

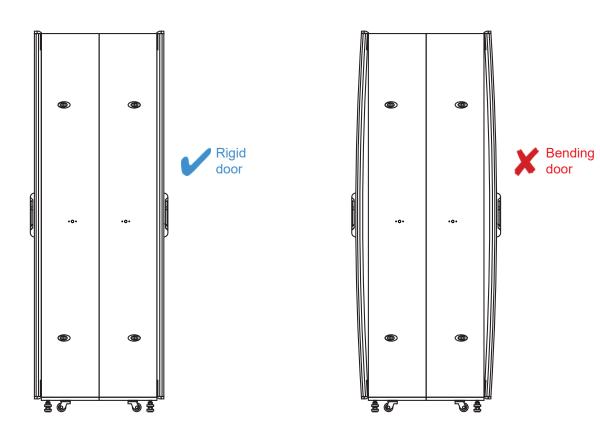
Pay attention to the below. Otherwise, it may cause operation problem.

1. Make sure 1. Ma

**2** The top & bottom holes with enough space tolerance.



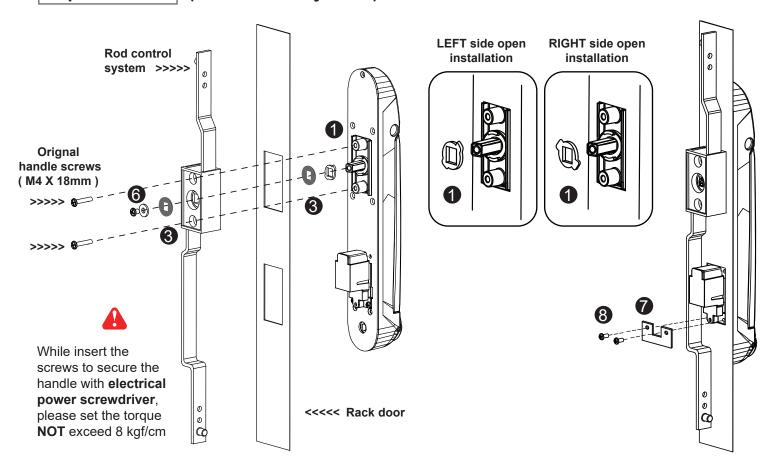
2. Make sure the rack doors are rigid and no bending.



### < 4.2 > Handle

## 2-point Lock (rod contr





- 1. Insert **1** metal washer and **3** metal square hole washer x 1 to the spigot of the smartcard handle.
- 2. Attach the **Rod control system** to the handle, insert the **3** metal square hole washer x 1 and **6** M6 x 10mm screw x 1 with circle hole washer to secure the position.
- 3. Insert **Orignal handle screws** x 2 through the **Rod control system** and door to the handle to fix it in place.
- 4. Place the 🕖 U bracket with 🛞 M3 x 10mm screw x 2 to further secure the handle in place.

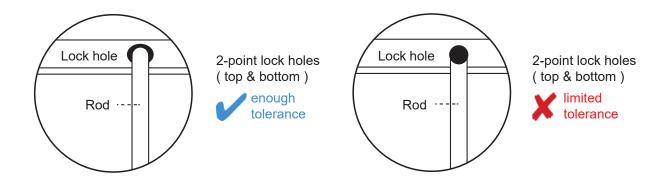
		Qty.
	Metal washer ( related to Left or Right side open )	2
	Metal circle hole spring washer	2
	Metal square hole washer	10
	Handle mounting bracket	2
	M4 x 9mm screw for	4
5	Circle hole washer w/ 4.6 x 10mm screw	2
· ·	U bracket	2
0	M3 x 10mm screw for	4
8	7	

#### Mounting set for 2 handles ( A No. of item 3 required is subject to the locking system design )

Pay attention to the below. Otherwise, it may cause operation problem.

1. Make sure 1. Ma

**2** The top & bottom holes with enough space tolerance.

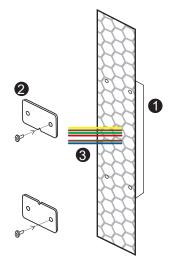


2. Make sure the rack doors are rigid and no bending.



## < 4.3 > Control Panel & Connector Box





#### Step < 1 >

Step < 2 >

■ Mount the ① Control Panel on the perforated door with the ② bracket sets.

Note : The hexagon pattern on the perforated door must be as below :



unit : mm

Meanwhile, pass the ③ six mini color wires through the perforated hole to the rear side.

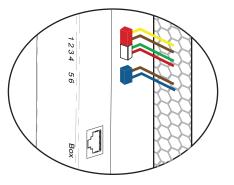
Note : Control panel always on the top of handle and the distance should not over 200mm.



#### Step < 3 >

Connect the 3 x 2-pin male connectors to the 3 x 2-pin female connectors on the connector box.

Please make sure the color of connectors matches at both sides. Otherwise, it will cause device failure

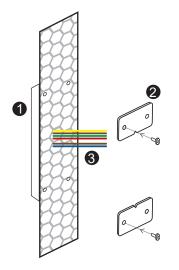




#### Step < 4 >

■ Fix the Connector Box on the top and bottom with M3 x 10mm screw x 2.

## Right Side Open



#### Step < 1 >

Step < 2 >

■ Mount the ① Control Panel on the perforated door with the ② bracket sets.

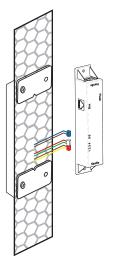
unit : mm

Note : The hexagon pattern on the perforated door must be as below :



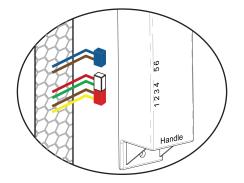
Meanwhile, pass the ③ six mini color wires through the perforated hole to the rear side.

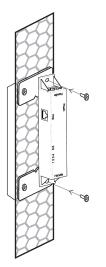
Note : Control panel always on the top of handle and the distance should not over 200mm.



#### Step < 3 >

- Connect the 3 x 2-pin male connectors to the 3 x 2-pin female connectors on the connector box.
  - Please make sure the color of connectors matches at both sides. Otherwise, it will cause device failure

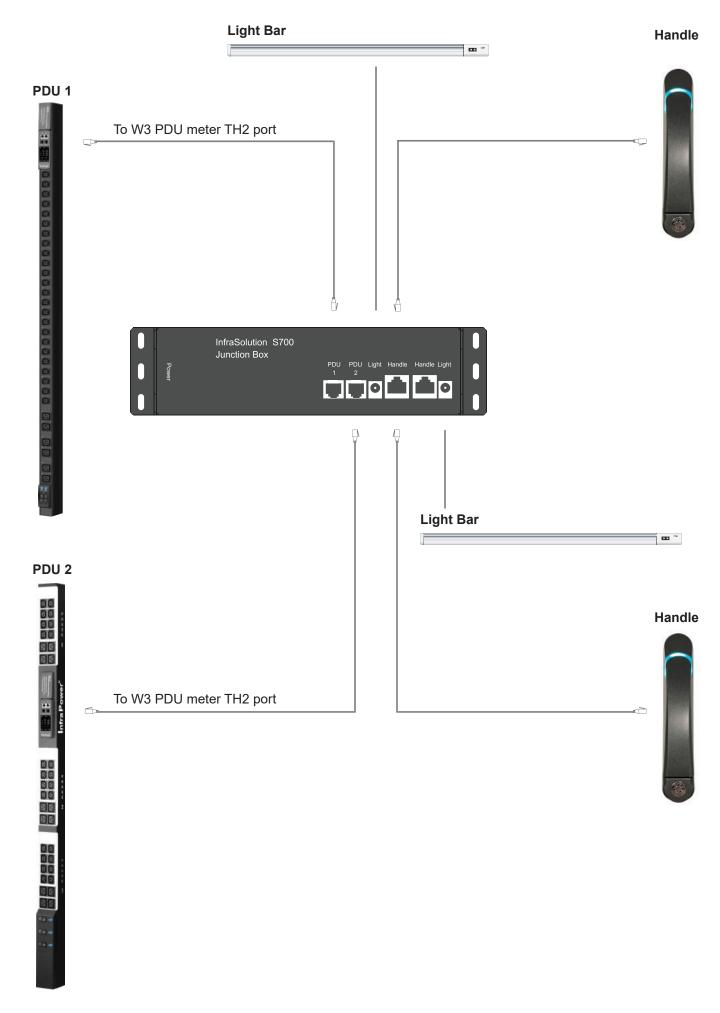




#### Step < 4 >

■ Fix the Connector Box on the top and bottom with M3 x 10mm screw x 2.

## < 4.4 > Junction Box



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## < 4.5 > Door Sensor Installation | IR Sensor

Door sensor is an essential accessories as users can be alerted by visual and audio alarm for unauthorized access.

#### IR Door Sensor, pair ( S-DIR )

#### Features

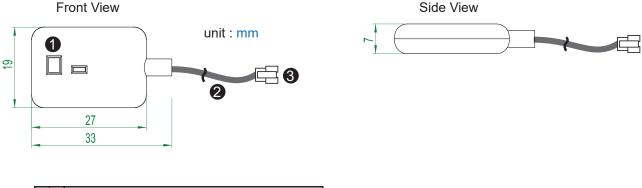
- Magnetic base for easy setup
- No custom cutting required on doors
- Light weight & mini size (33 x 19 x 7 mm)
- 2m cord

#### Requirement

- rack frame made of ferrous metal ( iron )
- sensing distance
- door close : < 40mm</li>
- door open : > 50mm

#### Package content

- IR sensor w/ 2m cable x 2
- reflective label x 2 ( opposite to the IR door sensor for a better response, size: 30 x 40 mm )

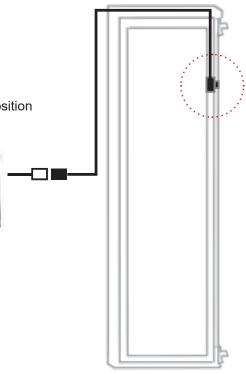


1	Sensor area
2	2m cable
8	Cable jack ( connect to handle )



#### Installation steps

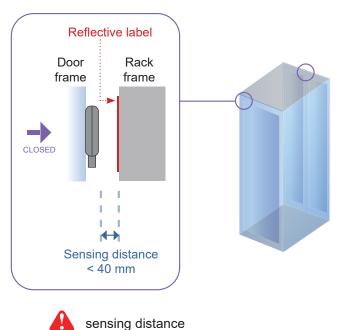
- connect to the handle
- guide & fix the cable with cable clips ( bundle with handle package )
- place the sensor at the top of the door, close to the hinge side
- adjust the sensor to ensure the sensing distance between door to frame within 5mm while door in close status
- stick the reflective label on the rack frame just opposite to the sensor position
  - sensing distance door close : < 40mm door open : > 50mm



#### **Sensor Operation**

#### DOOR CLOSE

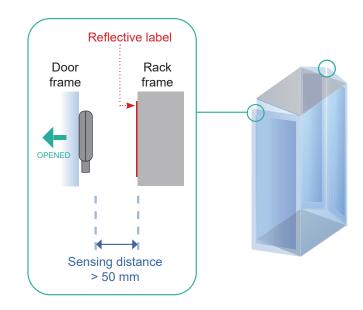
- close door
- IR sensor detects the rack frame
- DOOR CLOSE SIGNAL sends out



door close : < 40mm door open : > 50mm

#### DOOR OPEN

- open door
- IR sensor lose detection with rack frame
- DOOR OPEN SIGNAL sends out



Suggested sensor position

## < 4.5 > Door Sensor Installation | Mechanical Sensor

#### Mechanical Door Sensor, pair ( S-DSW)

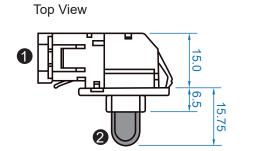
- Low cost / precise
- Size ( 36.3 x 15 x 30.75 mm )
- 2m cord

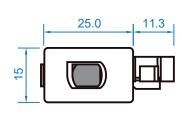
#### Package content

• Mechanical sensor w/ 2m cable x 2

Side View

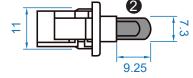
Mounting bracket x 2





Front View

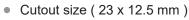


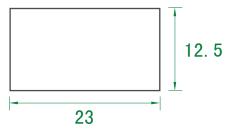


unit : mm

1	Cable connector
0	Press button ( total travel distance : 9.25 mm )
	(min. actuation_distance : 3.00 mm)

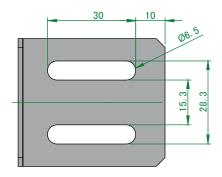
#### Mounting by custom cutout on door frame

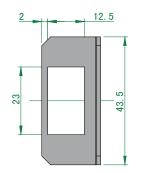


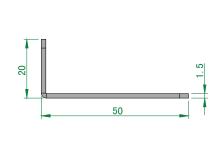


#### Mounting by bundled bracket

• Ø6.5mm hole cutting required on door frame



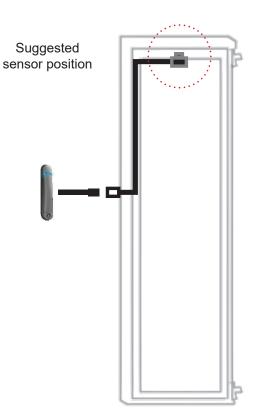






#### Installation steps

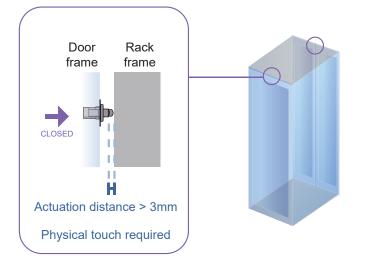
- connect to the handle
- place the sensor at the top middle of the door
- secure it with mounting screws x 2



#### **Sensor Operation**

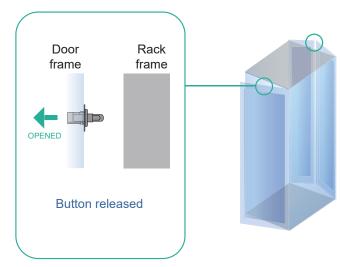
#### DOOR CLOSE

- close door
- Sensor button is pressed on
- DOOR CLOSE SIGNAL sends out



#### DOOR OPEN

- open door
- Sensor button is released
- DOOR OPEN SIGNAL sends out



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## < Part 5 > Initial Setup by Control Panel < 5.1 > Admin Passcode Assignment

Enter admin passcode for initial setup					
000	000				
1	2	3			
4	5	6			
7	8	9			
*	0	#			

1. Input default admin passcode ( default : 000000 )

In this stage, you can just use a physical key for door open. No smartcard can be assigned until you complete the admin passcode assignment.

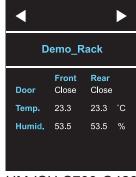
Enter new admin passcode					
0	00000 🗙				×
	1		2	2	3
	4		ţ	5	6
	7		8	3	9
	*		(	)	#

2. Input new admin passcode

	Confirm new admin passcode					
0 (	0 0 0 0 0 🗙					
•	1	2	3			
	4	5	6			
	7	8	9			
	*	0	#			

3. Input new admin passcode again to confirm





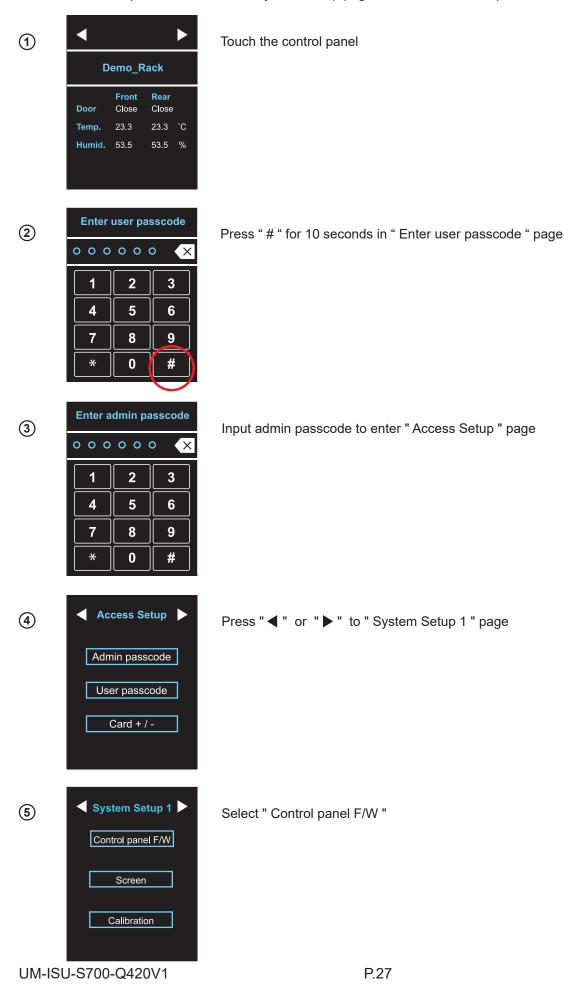
4. " Success " page show up 5 seconds

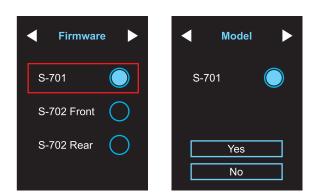
5. After 5 seconds, return to Main page

#### UM-ISU-S700-Q420V1

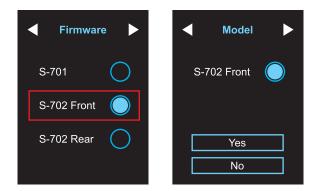
## < 5.2 > Control Panel Firmware

S-700 handle series provide two models, S-701 with one control panel while S-702 with two control panels. You must select the correct firmware for the control panel. Otherwise, it doesn't work. Please follow 5 steps below to enter the system set up page to select the control panel firmware.



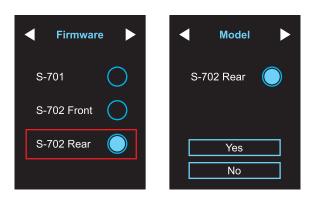


1. For S-701 model, simply select " S-701 " in the " Firmware " page. Press " Yes " to confirm in the " Model " page. The control panel will reboot to make the change effective.



2. For S-702 model, select " S-702 Front " for the control panel on the front door in the " Firmware " page. Press " Yes " to confirm in the " Model " page.

The control panel will reboot to make the change effective.



For S-702 model, select " S-702 Rear " for the control panel on the rear door in the " Firmware " page.

Press " Yes " to confirm in the " Model " page.

The control panel will reboot to make the change effective.

## < 5.3 > User Passcode Assignment

◀			
D	emo_R	lack	
Door	Front Close	<b>Rear</b> Close	
Temp.	23.3	23.3	°C
Humid.	53.5	53.5	%

1. Touch the control panel

Enter new user passcode						
0 0 0	00000 🗙					
1	2	3				
4	5	6				
7	8	9				
*	0	#				

5. Input the new user passcode ( default : 000000 )

Enter user passcode						
000	000000 🗙					
1	2	3				
4	5	6				
7	7 8 9					
*	0	#				

2. Press " # " for 10 secondsin " Enter user passcode "page

new	Confirm new user passcode					
0 0 0	00000 🗙					
1	2	3				
4	5	6				
7	8	9				
*	0	#				

6. Input the new user passcode again to confirm

Enter admin passcode						
000000 X						
1	2	3				
4	5	6				
7	8	9				
*	0	#				

3. Input admin passcode to enter " Access Setup " page



7. " Success " page show up 5 seconds



4. Select " User passcode "



8. Return to "Access Setup " page

## < 5.4 > User Card Addition



1. Select " Card + / - "



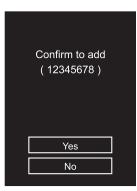
2. Select " Add card "

Present user card				
on reader				
or enter card number				

1	2	3
4	5	6
7	8	9
DEL	0	Enter

3. Present the user card to the sensor area or input the card no. and press " Enter "







Repeat step 3 & 4 to add more user card (max. 50 user card)

If no user card is assigned to the control panel, you can open the door by user passcode ONLY

## < 5.5 > Screen

◀			
D	emo_R	lack	
Door	Front Close	<b>Rear</b> Close	
Temp.	23.3	23.3	°C
Humid.	53.5	53.5	%

1. Present a valid card to the control panel



5. Select " Screen "

Enter user passcode				
000	000	x c		
1	2	3		
4	5	6		
7	8	9		
*	0	#		

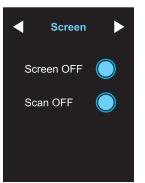
2. Press " # " for 10 seconds in " Enter user passcode " page

◀	Screen	►
Scre	en OFF	$\bigcirc$
Scar	n OFF	$\bigcirc$

6. Default : Screen < ON > Scan < OFF >

Enter admin passcode				
000000 ×				
1	2	3		
4	5	6		
7	8	9		
*	0	#		

Input admin passcode to enter
 Access Setup " page

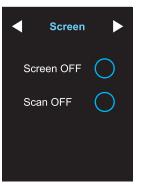


#### 7. \* OFF Screen :

- Screen OFF in 30 seconds
- If want to turn on the screen just touch it
- OFF in 30 seconds if no any further touch

Access Setup
Admin passcode
User passcode
Card + / -

4. Press " ◀ " or " ▶ " to " System Setup 1 " page



#### 8. \* ON Scan :

- Scanning starts in 30 seconds
- Then scan each page per 3 seconds

### < 5.6 > Calibration

•			
D	emo_R	lack	
Door	<b>Front</b> Close	<b>Rear</b> Close	
Temp.	23.3	23.3	°C
Humid.	53.5	53.5	%

1. Present a valid card to the control panel

2. Press "#" for 10 seconds in

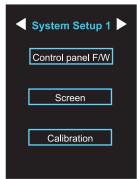
" Enter user passcode " page

Enter user passcode					
000	000	o X			
1	2	3			
4	5	6			
7 8 9					
*	0	#			

Enter admin passcode					
000	000				
1	2	3			
4	5	6			
7	8	9			
*	0	#			

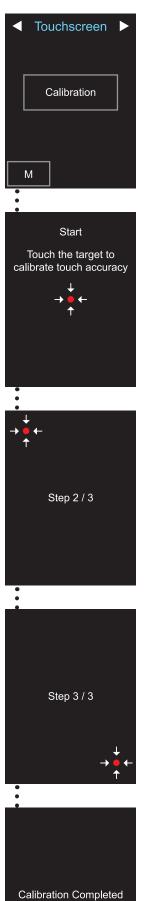
3. Input admin passcode to enter "Access Setup " page





4. Press " ◀ " or " ▶ " to" System Setup 1 " page

5. Select " Calibration "



6. Touchscreen Calibration

If no any calibrate touch in 30 seconds , it will return to Touchscreen page

### < 5.7 > Auto Lock

◀			
D	emo_R	lack	
Door	Front Close	<b>Rear</b> Close	
Temp.	23.3	23.3	°C
Humid.	53.5	53.5	%

1. Present a valid card to the control panel



5. Select " Auto Lock "

Enter user passcode							
000000 ×							
1	2	3					
4	5	6					
7	8	9					
*	0	#					

2. Press " # " for 10 seconds in " Enter user passcode " page





- 6. Default auto lock time : 30 seconds.
- Enter the new auto lock time and press " Enter " ( Min. : 10 seconds, Max. : 3000 seconds )

Enter admin passcode					
000	000				
1	2	3			
4	5	6			
7	8	9			
*	0	#			

3. Input admin passcode to enter "Access Setup " page



4. Press " ◀ " or " ▶ " to " System Setup 2 " page

### < Part 6 > Utilities ISU-01

### < 6.1 > Software Features & Hardware Requirements

**Software Features** 

	Utilities ISU-01
Max. 50 user card authentication per control panel	$\checkmark$
Change of Admin. Passcode	~
Change of User Passcode	
Card Assignment	
ouru Assignment	<b>∕</b> _

### **Hardware Requirements**

Please prepare a notebook computer with the hardware specifications as below for InfraSolution S Utilities ISU-01.

### **Recommended hardware :**

- Processor: Dual Core 2GHz or above 2GB RAM
- Memory:
- Available Disk Space: 2GB
- Display: 1024 x 768 or higher resolution

USB port x 1 required for the data input cable & smartcard handle configuration 44

### < 6.2 > Supported OS Platform & Language

### Supported OS platform & language list :

- MS Windows 7 Professional with SP1 (32bit & 64bit, English edition only)
- MS Windows 10 Professional (64bit, English edition only)

User can select the following languages under <u>Control Panel > Region and Language</u> in English Edition OS:

- 1) Arabic (Saudi Arabia)
- 2) Chinese (Traditional, Hong Kong S.A.R.)
- 3) Dutch (Netherlands)
- 4) English (Australia)
- 5) English (United Kingdom)
- 6) English (United States)
- 7) French (France)
- 8) German (Germany)
- 9) German (Switzerland)
- 10) Italian (Italy)
- 11) Japanese (Japan)
- 12) Korean (Korea)
- 13) Norwegian (Norway)
- 14) Portuguese (Portugal)
- 15) Russian (Russia)
- 16) Spanish (Spain)
- 17) Turkish (Turkey)

🐓 Region and Language	×				
Formats Location Keybo	pards and Languages Administrative				
<u>F</u> ormat:					
English (United Kingdo	om) 🗸				
Date and time format					
Short date:	dd/MM/yyyy				
Long date:	dd MMMM yyyy				
S <u>h</u> ort time:	HH:mm 🔻				
Long time:	-				
First day of week:	Monday				
What does the notati	on mean?				
Examples					
Short date:	25/06/2013				
Long date:	25 June 2013				
Short time:	10:01				
Long time:	10:01:40				
	Additional settings				
Go online to learn abou	ut changing languages and regional formats				
	OK Cancel Apply				

### < 6.3 > Utilities ISU-01 Download & Installation



After the handle installation, please take the following steps to install the utilities :

- 1. Prepare a notebook computer to download the handle setup utilities from the link : http://www.austin-hughes.com/support/utilities/infrasolutionS/ISU-01.msi
- 2. Double click the ISU-01.msi and follow the instruction to complete the installation.



• • • • • • • • • • • • • • • • Complete

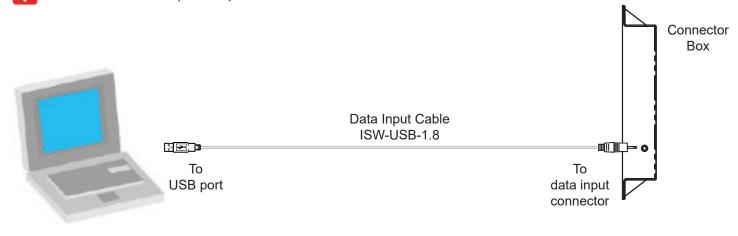
### < 6.4 > Driver Installation for Data Input Cable

Before initial configuration for control panel, user MUST install the driver for the data input cable **ONCE**. Please follow 13 steps below to complete the installation.

Step 1.

Connect the control panel to the notebook computer via the control panel data input cable (ISW-USB-1.8).

Make sure the control panel in power ON status



If the notebook is MAC model, users may need to download the USB driver to run Windows OS under MAC notebook PC.

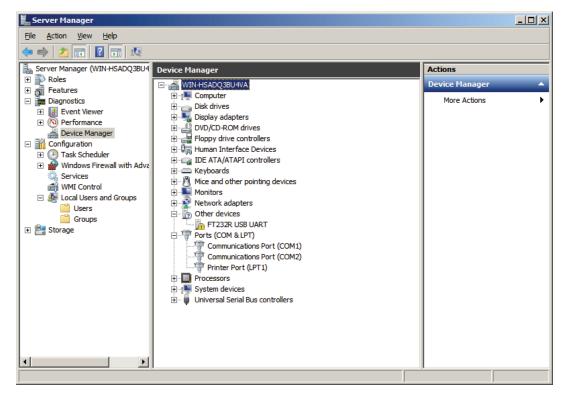
http://www.austin-hughes.com/support/utilities/infrasolutionS/ISW-USBV20828-32bit.7z OR

http://www.austin-hughes.com/support/utilities/infrasolutionS/ISW-USBV20828-64bit.7z

### Step 2.

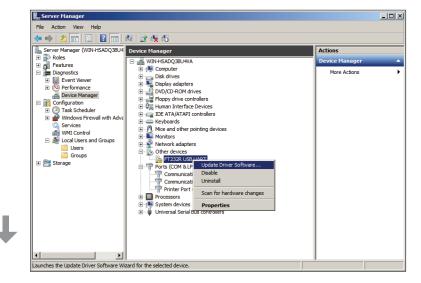
Right click "**My computer**" & Select "**Manage**". Click "**Device Manager**".

Then user can see an improper USB UART driver installed under " Other devices " .



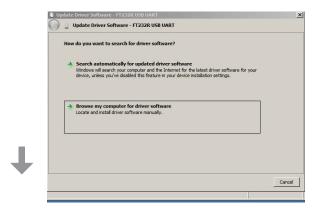
### Step 3.

Right Click the improper installed USB UART driver & Select " Update Driver Software... ".



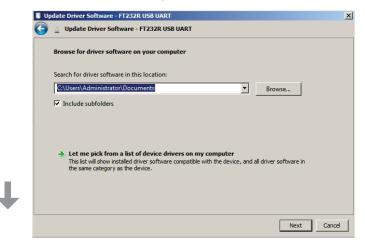
### Step 4.

A window pops up & please Select " Browse my computer for driver software ".



### Step 5.

Click " Browse " to search the path of the driver software.



### < 6.4 > Driver Installation for Data Input Cable



Select C:\ > Program Files > InfraSolution S – Setup Utilities > Driver & Click " OK "

Browse For Folder	×
Select the folder that contains drivers for your hardwa	are.
🗆 🌗 Program Files (x86)	
🛨 🌗 Common Files	
🕀 🌗 InfraPower Manager (IPM-02)	
InfraSolution S - Setup Utilities	
🕀 🌗 Internet Explorer	
🛨 🍌 psqlODBC	
🌗 Windows Mail	
IFI 🔐 Windows NT	-
Eolder: Program Files(x86)	
OK Cano	el



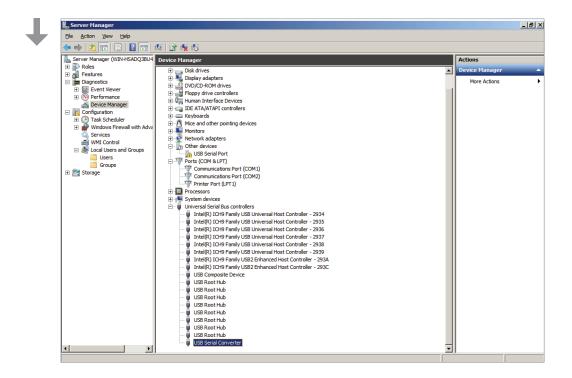
Step 7. Click " Next " to install the driver.

Step 8.

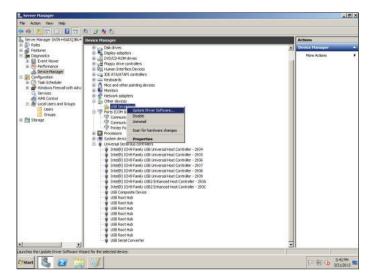
It takes a few seconds to complete. When complete, Click " Close "

### Step 9.

" USB Serial Converter " shows under " Universal Serial Bus controllers ".



### Step 10. Right Click " USB Serial Port " under " Other devices " & Select " Update Driver Software... ".



## Ļ

Step 11. Select " Browse my computer for driver software ".

### Step 12.

Click " Browse " to search the correct path of the driver software & Click " Next " to install the driver.

	odate Driver Software - USB Serial Port
9	Update Driver Software - USB Serial Port
	Browse for driver software on your computer
	Search for driver software in this location:
	C:\Program Files (x86)\InfraSolution S - Setup Utilities\Driver Browse
	Include subfolders
	Let me pick from a list of device drivers on my computer This list will show installed driver software compatible with the device, and all driver software in the same category as the device.
	Next Can

### Step 13.

It takes a few seconds to complete. When complete, Click " Close "

• • • • • • • • • Complete

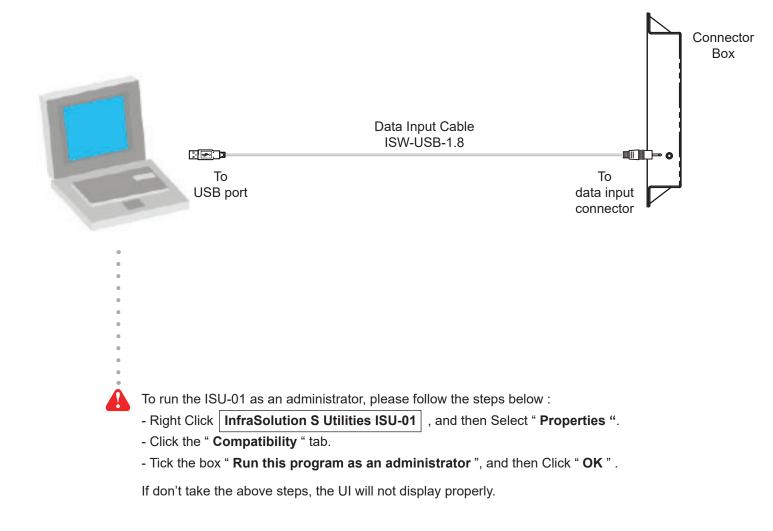
### < 6.5 > Initial Control Panel Configuration



Please take the following steps to run the ISU-01 as an administrator :

After hardware & software installation, please take the following steps to configure the control panel.

- (1) Prepare the notebook computer installed with utilities ISU-01
- (2) Connect to the control panel via the control panel data input cable (ISW-USB-1.8)
- (3) Make sure the control panel in power ON status
- (4) Configure the control panel according to the UI
- (5) After finish the control panel configuration, please repeat the steps for other control panels **One by One**



InfraSolution S Ut	tilities ISU-01	Version	Q417V9			
Control Panel Informat	tion		Card Assignment (Max. 50)	[	Card Edit	Delete
		1	92103172	26		
ID	SHID170731115543	2	60931588	27		
Model	S-702M	3	25691396	28		
Туре	MIFARE	4	53922640	29		
Last updated	2017 / 12 / 06 15:40	5	94945130	30		
		6	67751684	31		
Control Panel		7	20684542	32		
Name	AHE	8	20927838	33		
Rack	Demo_Rack	9		34		
	10.000 M	10		35		
Calendar Sync.	Enable	11		36		
Admin Passcode ( Set	up )	12		37		
		13		38		
New Admin passcode	e ø	14		39		
		15		40 [		
		16		41		
User Passcode (Authe	en.)	17		42		
New User passcode	ø	18		43		
	~	19		44 [		
		20		45 [		
		21		46		
		22		47 [		
Apply	Cancel Export Impo	ert 23		48 [		
		24		49		
Status:		25		50		

### **Control panel Information**

In < Control panel Information >, shows the control panel ID #, model, card type & the time of last configuration.

D	SHID170731115543
lodel	S-702M
Туре	MIFARE
ast updated	2017/12/06 15:52

### < 6.5 > Initial Control Panel Configuration

### **Control Panel**

In < **Control Panel** >, record the **Name** (default is empty) and **Rack** (default : Demo\_Rack) of the control panel. After saving the record, **Name** is shown on Main page while **Rack** on Main page and PDU page Tick " **Enable** " to synchronize the timer of control panel with the computer

		F	low01_R	ack01	Ro	w01_R	ack01
Name	AHE	Door	Front Close			Amp.	Temp.
Rack	Row01_Rack01	Тетр		23.3 °C	PDU 1	3.3	23.3 C
Calendar Sync.	Enable (Dec-06-2017 15:52:24)	Humi	<b>d</b> . 53.5	53.5 %	PDU 2	3.3	23.3 °C

### Admin Passcode

In < Admin Passcode >, input the New Admin Passcode and Confirm Admin Passcode of the control panel. ( default : 000000 )

New Admin passcode 🏾 🚿	000000	0
Confirm Admin passcode	000000	0

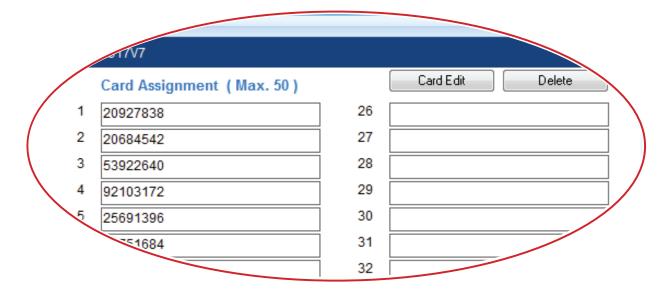
### **User Passcode**

In < User Passcode >, input the New User Passcode and Confirm User Passcode of the control panel. ( default : 000000 )

New User passcode	ø	000000	0
Confirm user passcode		000000	0

### < 6.6 > User Card Assignment

In < Card Assignment >, assign, edit or delete user card.



### Card Assignment by two methods

- (1) Click Card Edit, then direct input the last 8 digits of the card number to the field
- (2) Click **Card Edit**, then present the smartcard to the sensor area of the control panel and the last 8 digits of the card number will be input to the field simultaneously & automatically

### Card no. Change

(1) Click Card Edit, then change the existing card numbers in the field

### **Card Delete**

(1) Click Card Edit, then delete the card number in the field one by one

### All Card Delete

(1) Click Delete, then confirm this command and all card assignment will be deleted



Click " Apply " to finish the above configuration for smartcard.



If no user card is assigned to the control panel , you can open the door by user passcode ONLY

### < 6.7 > Export & Import of Control Panel Configuration

In < Export > and < Import >, provide a quick way to configure other control panel with same or similar configuration on < Control Panel >, < Admin Passcode >, < User Passcode > and < Card Assignment >.

### Steps for Export :

- (1) Click " Export " and Click " Yes " from the pop up window
- (2) Provide the name and path of the export file and follow the instruction to complete the export

	SHID170731115543			
Model	S-70	02M		
Туре	MIE	ARE		
Last updated	2017	7/12/06 15:52		
Control Panel				
Name	AHE			
Rack	Demo_Rack		1	
Calendar Sync.	Enable (Dec-06-2017 15:5			
Admin Passcode ( Setup )				
New Admin passcode	ø	000000	۲	
Confirm Admin passcode		000000	0	
Jser Passcode (Authen.)		000000	0	
	ø		_	
	Ħ	000000	0	

### Steps for Import :

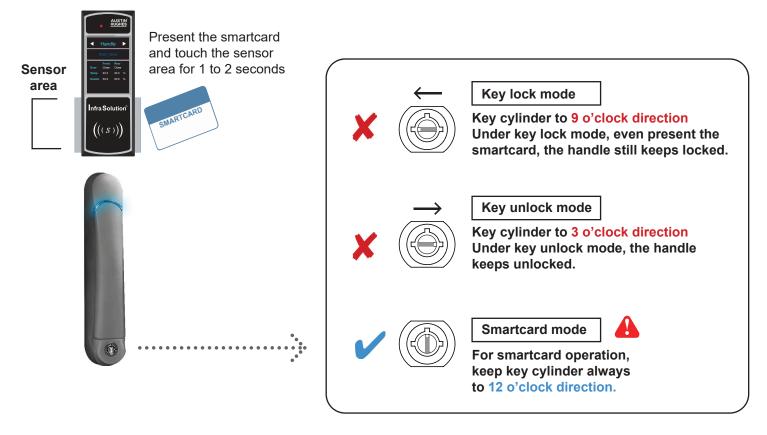
- (1) Select the control panel which you want to import control panel configuration file
- (2) Connect the control panel to the notebook computer via the data input cable (ISW-USB-1.8)
- (3) Click " Import " and Click " Yes " from the pop up window
- (4) Select the file to import & follow the instruction to complete the import step
- ( 5 ) After import completed, edit the field (s) on  $\ \textbf{Name}$  , Rack ..... if necessary
- (6) Click " Apply " to finish file import

	SHID170731115543				
Model	S-70	02M			
Туре	MIF/	ARE			
Last updated	2017	7/12/06 15:52			
Control Panel					
Name	AHE	(			
Rack	Demo_Rack		i		
Calendar Sync.	Enable (Dec-06-2017 15:				
Admin Passcode ( Setup )-					
New Admin passcode	ø	000000	0		
Confirm Admin passcode	•	000000	0		
Jser Passcode (Authen.)			0		
Jser Passcode (Authen.) New User passcode	ø	000000			
	ø	000000	0		

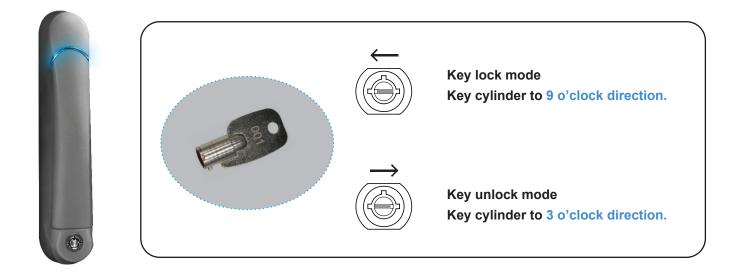
### < Part 7 > Control Panel & Handle Operation < 7.1 > Two Important Notes

### Important Note for Key lock

• Under Smartcard mode, always keep key cylinder to 12 o'clock direction.



- Unless the control panel or the handle is defective, lock / unlock the handle by key is NOT recommended
- Please insert & turn the key with push force







- Improper key usage may cause the cylinder stuck at abnormal direction 1 to 2 o' clock.
- Under this circumstance, the maintenance key (MK-001) is required to solve the problem.
- Please insert the **maintenance key** to the cylinder with push force for turning it to normal direction 9 or 12 or 3 o'clock.

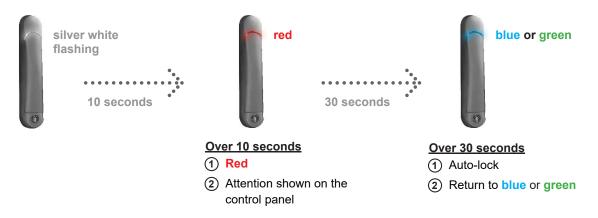


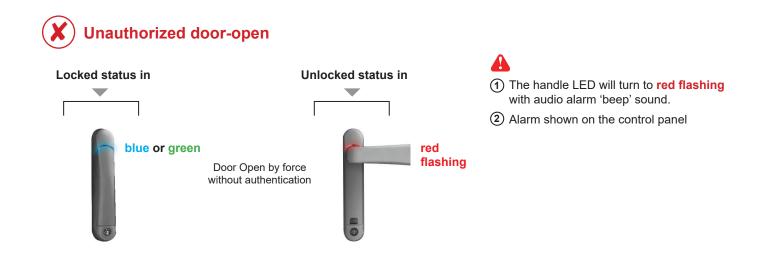
### < 7.2 > Control Panel & Handle Operation

### How to unlock the handle & open the door properly

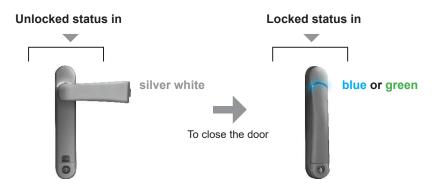


NOT open the door after authentication within 10 seconds









Users should :

- close the door
- swing and return the handle
- to park position properly - the handle will **auto-lock**

### < Part 8 > FAQ & Troubleshooting < 8.1 > FAQ

### Utilities – ISU-01

### 1. What is Utilities – ISU-01 ?

- ISU-01 is a Windows based utility to provide a simple & user friendly way for initial handle setup

### 2. Which OS platform does ISU-01 support ?

- MS Windows 7 Professional with SP1 (32bit & 64bit, English edition only)
- MS Windows 10 Professional (64bit, English edition only)

### 3. Why the control panel no. NOT show in UI ?

- ensure the control panel is in power ON status
- ensure the driver installation for data input cable (ISW-USB-1.8) completed

### **Control Panel & Handle**

### 1. How many user card can I assign to each control panel?

- up to 50

### 2. Why can't open the door even I presented a valid user card to the control panel ?

- ensure the handle lock under the smartcard mode that key cylinder at 12 o'clock direction. Please refer user manual " < 7.1 > Two Important Notes " .

### 3. What Reader format does your control panel support ?

- 125kHz ( HID 26-bit system ) / 13.56MHz ( MIFARE )

### 4. What MIFARE standard does your reader support ?

- The CSN of MIFARE Classic , MIFARE DESFire EV1 , MIFARE DESFire EV2, MIFARE Plus S, MIFARE Plus X and MIFARE Plus EV1

### Others

### 1. How to do if lost the user card ?

- Open the door by key and edit the card assignment via ISU-01
- Delete the lost user card in "Setup " page on the Control Panel

### 2. Where can I get the USB driver for the data input cable (ISW-USB-1.8)?

- for 32 bit OS : http://www.austin-hughes.com/support/utilities/infrasolutionS/ISW-USBV20828-32bit.7z
- for 64 bit OS : http://www.austin-hughes.com/support/utilities/infrasolutionS/ISW-USBV20828-64bit.7z

### 3. Where can find the Catalog / User manual / Model list of Rack Smart Card Handle ?

- please visit <u>www.austin-hughes.com</u>

### 4. How can get further support ?

- please send email to support@austin-hughes.com or sales@austin-hughes.com

### < 8.2 > Troubleshooting

- 1. Control panel ID no. not shown in UI
- Step 1 Control panel is OFF ?

ensure the control panel is in power ON status

- Step 2 Check the driver of the data input cable installed properly ? ensure the driver is installed properly. Please refer to user manual " < 6.4 > Driver installation for Data Input Cable "
- **Step 3** Check the USB port of the notebook computer ? Try to plug the data input cable into another USB port of the notebook computer.
- Step 4 Data input cable defective ? Replace another data input cable.

### 2. Handle can't be locked after closed the door

- Step 1 Check door sensor is installed ?
  If NO door sensor is installed, the handle CANNOT be locked after you unlock it.
- Step 2 Door sensor sensing distance when door close greater than 40mm ( IR door sensor only ) ? Ensure the distance between the door sensor and rack frame is LESS than 40mm. Please refer to user manual " < 4.5 > Door Sensor "
- Step 3 Handle lock under key unlock mode and key cylinder at 3 o'clock direction ? Ensure the handle lock under the smartcard mode that key cylinder at 12 o'clock. Please refer to user manual " < 7.1 > Two Important Notes "

### 3. Control Panel & front handle is OFF

- Step 1- Cat 5 cable between the Junction box and connector box is loose ? Ensure the cable is plugged securely.
- **Step 2-** The red & white colored connectors of the Connector box to control panel cable loose ? Ensure the connectors are fixed in the female connectors of the connector box firmly.

### < Part 9 > Accessories

### IR LED light bar (CLB-SD-IR-101)

- Magnetic base for easy, fast and tool-less affix
- Low-profile design for limited rack space
- Auto ON / OFF by IR sensor

### Data input cable, pc (ISW-USB-1.8)

• Connect the smartcard handle to the laptop for handle activation, data input & configuration

### Individual key lock, set of two for front & rear door (ISK-C051)

Up to 500 individual key-locks available

### Unique key lock (ISK-UKL)

- Unique key dedicated to single project / customer regionally
- For project size over 500 racks

### Proximity smartcard, pack of 10 (ISC-P10)

- Proximity 26-bit format
- Single card for multiple application
- Custom card layout available

### MiFARE smartcard, pack of 10 (ISC-M10)

- MiFARE 26-bit format
- Single card for multiple application
- Custom card layout available

### Proximity card reader (ISC-PCR)

- Proximity 26-bit smartcard compatible
- · Convenient way for smartcard ID reading
- Driverless for easy installation

### MiFARE card reader (ISC-MCR)

- MiFARE 26-bit smartcard compatible
- Convenient way for smartcard ID reading
- Driverless for easy installation

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