



ACCURANCE-3D

Anti-Tailgate / Anti-Piggyback Sensor System

Model No :Control Box A3001CB

:TOF Sensor A3001S

Specifications and Operation examples

(Version Draft 0.16)

Specifications and Model names are not fixed yet. 2014, October 07. Rik Murata



OPTEX CO., LTD.

Contents -----

Introduction

System contents

1. Part Names.....	4
2. Specifications.....	5
2-1. Outer Dimensions.....	5
2-2. Common Specifications.....	6
2-3. LED Indications	7
2-3-1. Control Box A3001CB.....	7
2-3-2. TOF Sensor A3001S.....	8
2-4. Control Box A3001CB Specifications	9
2-4-1 Control Box A3001CB basic Specifications	9
2-4-2. Control Box A3001CB terminal configurations.....	10
2-4-3. Input / Output Signal diagram.....	11
2-5. Time of Flight Sensor A3001S Specifications	11
2-6. Operation Method.....	13
2-6-1. Disassembly method of Top Case.....	13
2-6-2. Assembly method of Front Case	13
3. Installation	14
3-1. Installation dimensions (an example for Interlock Application).....	14
3-1-1. Mounting position of A3001S TOF sensor	14
3-1-2. How to mount TOF Sensor.....	16
3-2. Wiring.....	17
3-2-1. Wiring between Control Box and TOF Sensor	17
4. Initial Setting	20
4-1. PC Setting.....	20
4-1-1. Before Initial Setting	20
4-1-2. LAN Connection	20
4-1-3. PC Setting – TCP/IP	21
4-1-5. PC Setting - Remote Desktop Connection.....	22
4-2. Initial Setting of ACCURACE-3D application	29
4-2-1. Date & Time Adjustment.....	29
4-2-2. Installer Setting	30
4-2-3. Door Setting.....	32
4-2-4. Security Settings.....	33
4-2-5. Output Status	34
4-2-6. Output Log / Delete Log	35
4-2-7. Installer Logout	36
5. Operation Checking.....	36
6. Troubleshooting.....	37
7. How to remove battery safely.....	38



Introduction

A3001 is Anti-Tailgate/Anti-Piggyback sensor system that uses Time Of Flight technology.

This product can only be incorporated with the size limited Interlock door.

Note that the product does not prevent unauthorized entry physically.

The product is designed to register only and therefore not to prevent property loss and casualty, or physical damage.

Please note that the manufacturer and distributors are not liable for any densification by any damages.

System contents

The following items are contained in this system:

Control Box A3001CB

TOF sensor A3001S

1. Part Names

Control Box A3001CB



< A3001CB >

NOTE : Keypads are not available yet, in October, 2014.

At lower left side : Power inputs(2), 2 Power output sockets for A3001S, 2 keypad terminals(2x4), 2ch x 5 inputs, 2ch x 8 outputs

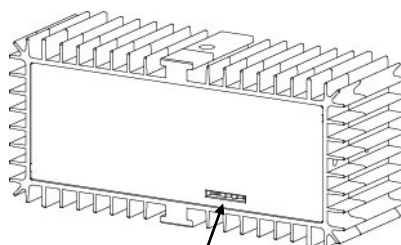
At lower center : RS-232C interface, USB 2.0 x 4, Ethernet(RJ-45) x 2

LAN #1(Left) "192.168.1.250" with DHCP server

LAN#2(Right) "192.168.2.250" with DHCP server

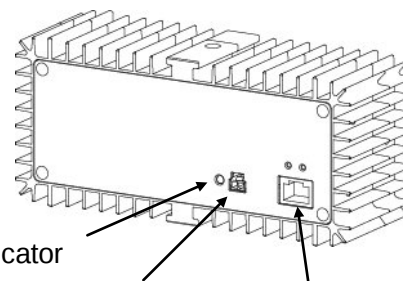
NOTE : You need to connect PC using "Remote desktop function" to see the display on A3001CB.

TOF Sensor A3001S



Operation Indicator

Front Side



Power Indicator

Power Supply

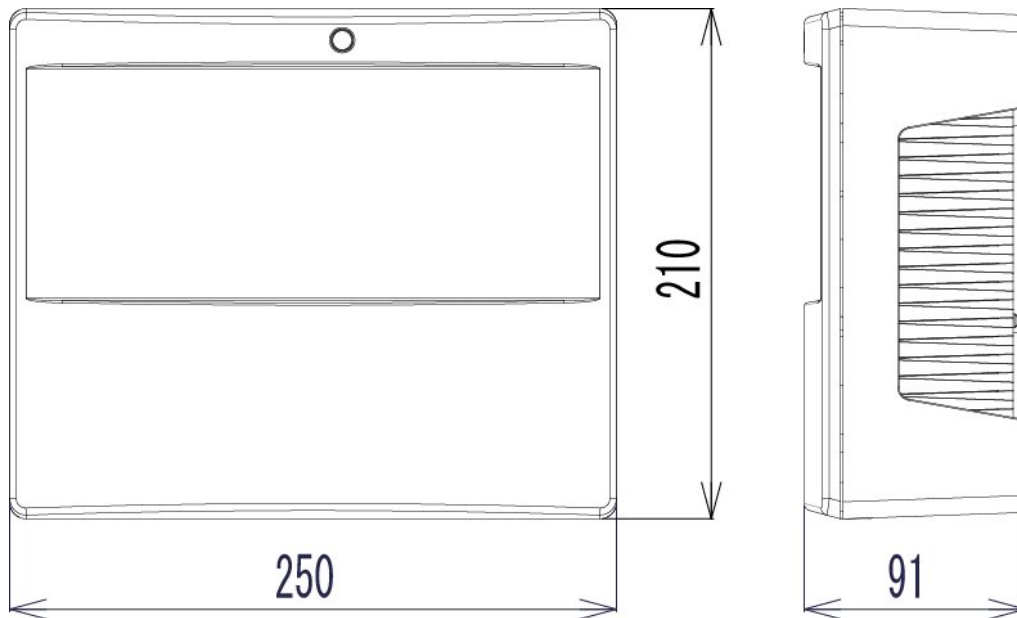
LAN Connector

Back Side

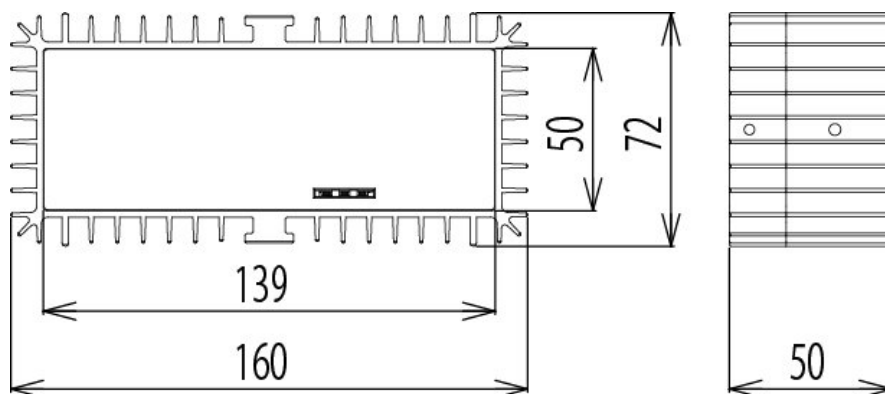
2. Specifications

2-1. Outer Dimensions

Control Box A3001CB



TOF Sensor A3001S



2-2. Common Specifications

Items	Specifications	Remarks
Ambient operating temperature	-10°C - +50°C	
Ambient operating humidity	0% - 80%	No condensation
Ambient operating illuminance	0lx – 100,000lx	
Installation location	Indoor	
Sensor mounting height	2.3m - 2.6m	A3001S for 2.9m height
Applicable door	size limited Interlock door for example, 1 x 1.5m	
Maximum detection height of person	2.05m	Depends on installation height
Power supply	24VDC (±10%)	
Power consumption	TOF Sensor : 10-20W (typ.) Control box : 10-20W (typ.)	Max power consumption is 50-70W for Control Box and 2 TOF sensors.

2-3. LED Indications

2-3-1. Control Box A3001CB

Mode	Position of LED	LED Color	LED status	Function
Operation	Next to Power switch	Green	ON	Power ON
Start up	On Control Box	Green	Blinking at 2Hz	Learning Door Position
		Green	ON	Position Initialization Complete
		Red	Blinking at 2Hz	Operating System starting up
		Red	ON	Operating System start up Complete
		Orange	Blinking at 2Hz	Sensor Initialization
		Orange	ON	Sensor Initialization Complete
		Green	ON for 2sec.	TOF System ready to run
		Red		
		Orange		
Operation	On Control Box	Green	Blinking at 2Hz	AIR Detection
		Green	ON	AIR Non Detection
Output	On Control Box	Orange	ON for 0.2sec.	Zero output
		Orange	ON for 2sec.	One Person output
		Red	ON for 2sec.	More Person output
		Orange	ON for 2sec.	Suspicious output
		Red		
Error	On Control Box	Orange	Simultaneous Blinking at 2Hz	When NOT communicating (e.g. LAN disconnection, hardware/software defect)
		Red		
		Orange	Alternative Blinking at 2Hz	Insufficient Reflection
		Red		

2-3-2. TOF Sensor A3001S

Mode	Position of LED	Color	LED status	Function
Operation	Back side of TOF Sensor	Green	ON	Power-ON
Start-Up	Front side of TOF Sensor	Green	ON for 2sec.	During Power-Up (first 2sec)
		Red		
		Blue		
		Blue	Simultaneous Blinking at 2Hz	When NOT communicating
		Red		
Operation	Front side of TOF Sensor	Green	Blinking at 2Hz	AIR Detection
		Green	ON	AIR Non Detection
Output	Front side of TOF Sensor	Blue	ON for 0.2sec.	Zero output
		Blue	ON for 2sec.	One Person output
		Red	ON for 2sec.	More Person output
		Blue	ON for 2sec.	Suspicious output
		Red		
Error	Front side of TOF Sensor	Blue	Simultaneous Blinking at 2Hz	When NOT communicating (e.g. LAN disconnection,)
		Red		
		Blue	Alternative Blinking at 2Hz	Insufficient Reflection
		Red		

2-4. Control Box A3001CB Specifications

2-4-1 Control Box A3001CB basic Specifications

Items	Specifications	Remarks
Power supply	24VDC ($\pm 10\%$)	
Power consumption	10-20W (typ.)	
Basic System	Embedded PC	
OS	Embedded Windows	
Start-up time	60 - 120 Sec	
Dimensions	W:250mm H:210mm D:91mm	
Mass	1,800g	Without LCD
Mounting method	3 Screws	
Monitor	None	
ROM	Compact flash 2G byte	
SSD	80GB	For DATA storage.
LAN 1	Ethernet (Gigabit) RJ-45	Fixed IP with DHCP Server (192.168.1.250)
LAN 2	Ethernet (Gigabit) RJ-45	Fixed IP with DHCP Server (192.168.2.250)
USB	USB 2.0 4ch	only with special password
Real-time clock	Provided	*Life expectancy of battery (CR2032) to be considered as weaken batteries may cause initialization of date and time setting.
Power switch	Provided	
Power indicator	Green LED	
Output indicators	3 LEDs (Green, Red, Orange) x 2ch	
I/O (for door PLC controller)	I/O board (2ch Primary, Secondary) 5 inputs x 2ch 8 outputs x 2ch	See 1-4.
I/O Outputs 1-5	outputs	Photo MOS Output 30V DC 0.05A(Max) Active Sink Close
I/O Outputs 6	Heartbeat output 0.33Hz	
I/O Output 7-8	Spare outputs	
I/O Input 1-4	Outer door contact	Photo coupler Input 24VDC
I/O Input 5	Spare input	

2-4-2. Control Box A3001CB terminal configurations

Keypad terminal configuration

	Keypad			
	1	2	3	4
Primary	+5V	TXD	RDX	GND
Secondary	+5V	TXD	RDX	GND

NOTE : Keypads are not available yet, Oct. 2014.

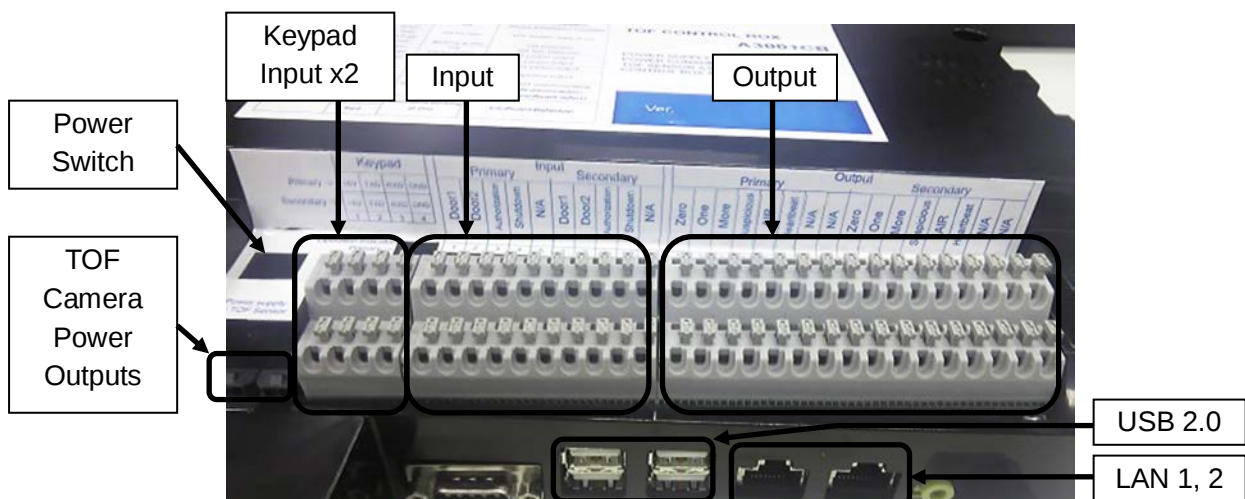
Input terminal configuration

Input									
Primary				Secondary				Common	
1	2	3	4	5	6	7	8	9	10
Door1	N/A	Authorization	N/A	Door 1	N/A	Authorization	N/A	Other sensor	Shutdown

Output terminal configuration

Output															
Primary								Secondary							
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
Zero	One	More	Suspicious	AIR	Heartbeat	N/A	N/A	Zero	One	More	Suspicious	AIR	Heartbeat	N/A	N/A

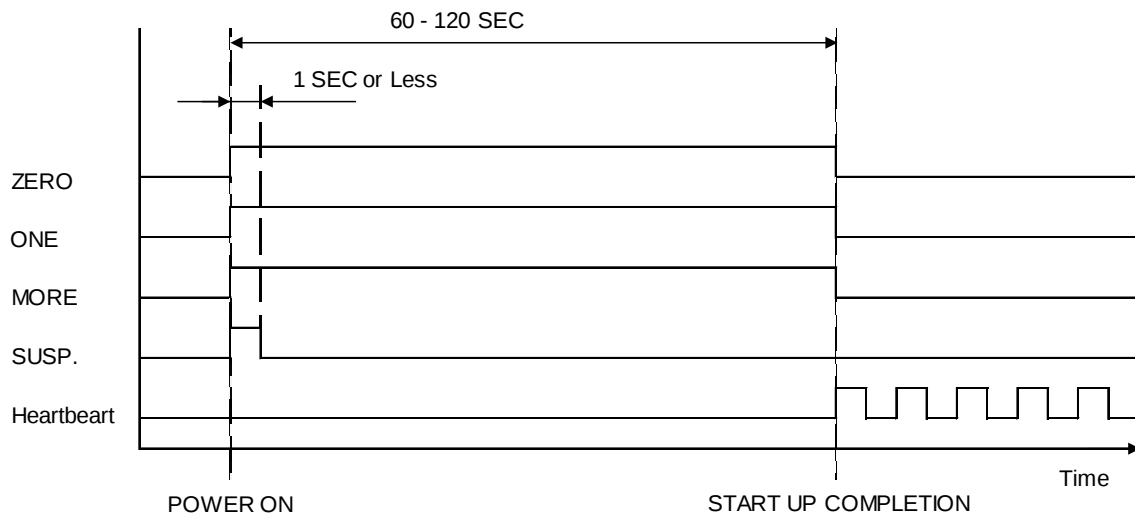
NOTE: "N/A" terminal can be used for the customer's usage.



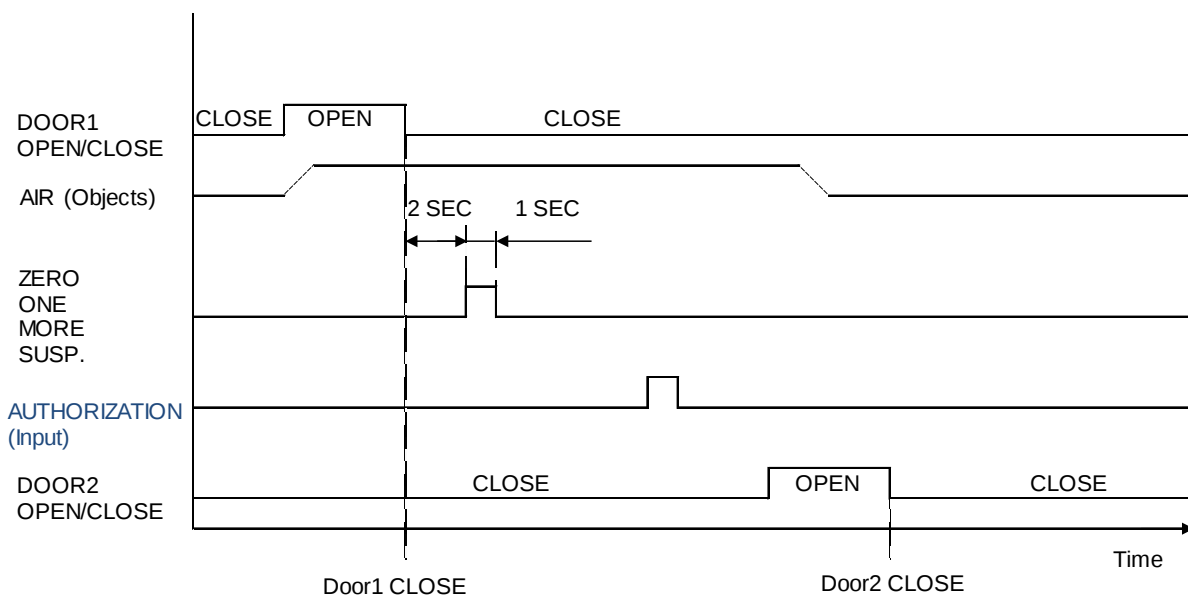
2-4-3. Input / Output Signal diagram

Heartbeat output makes a 0.33 Hz signal as a heartbeat signal.

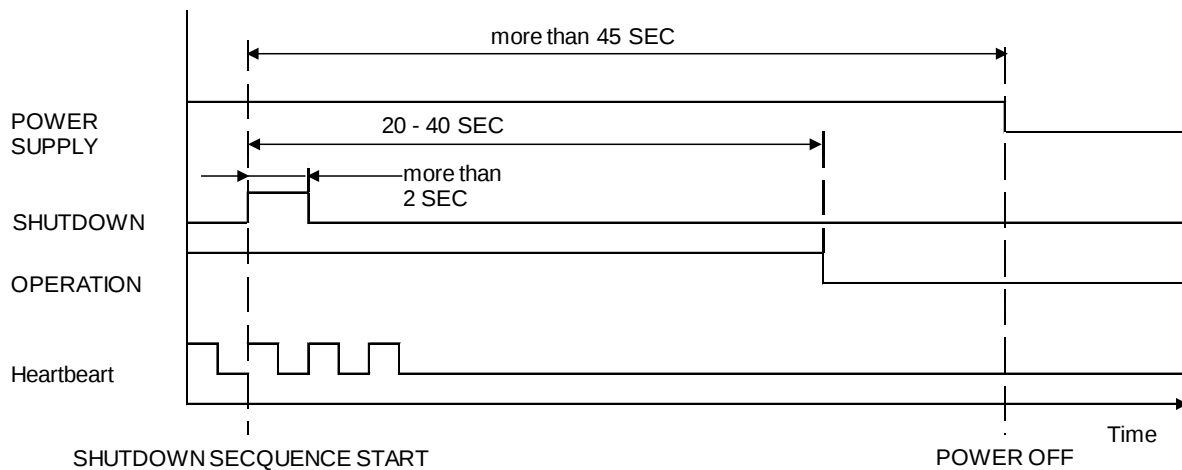
POWER-UP



Output Signal Timing



Shutdown



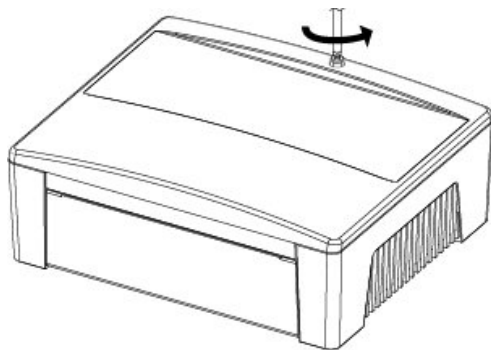
2-5. Time of Flight Sensor A3001S Specifications

Items	Specifications	Remarks
Detection method	Time Of Flight	
Light source	IR LED	
Image pixels	176 (H) 132 (V)	
Angle of view	Horizontal: approx. 70 degrees Vertical: approx. 55 degrees	
Power supply	24VDC ($\pm 10\%$)	Supplied from Control Box
Dimensions	160mm (W) 72mm (H) 50mm (D)	Excluding cable
Mass	600g	
Mounting method	Screwed on SMB(*) or ceiling panel 1/4 inch Screw * 2	(*)Sensor Mounting Box
Power indicator	Green LED	
Output indicators	3 LEDs (Green, Red, Blue)	
I/O	LAN 1ch (Ethernet) RJ-45	

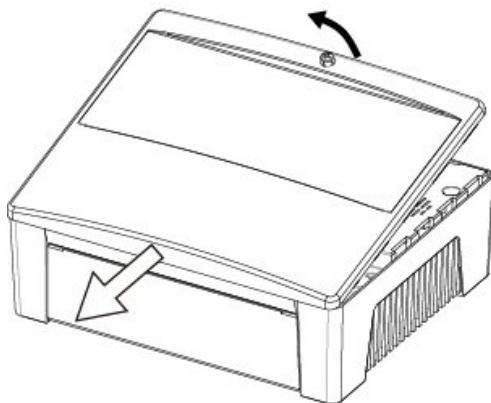
NOTE : 50 degree x 40 degree version is considered for the higher mounting height up to 4m.

2-6. Operation Method

2-6-1. Disassembly method of Top Case

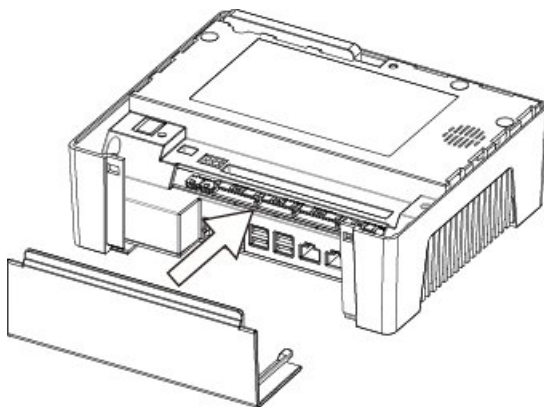


1. Turning the screw on the upper side of body.
※The screw does not come off.

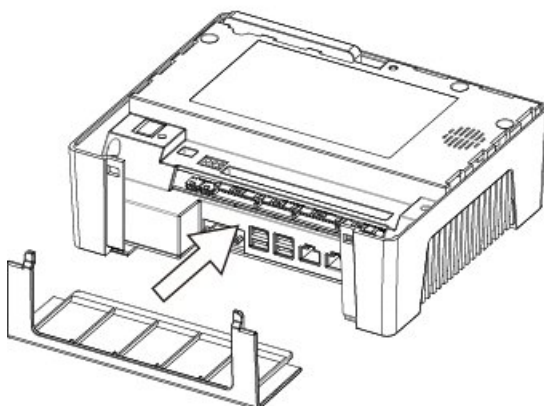


2. Take off two nails by picking up Top Case as shown in the figure on the left.

2-6-2. Assembly method of Front Case



1. Front Case can be used in 2 ways by assembly direction.



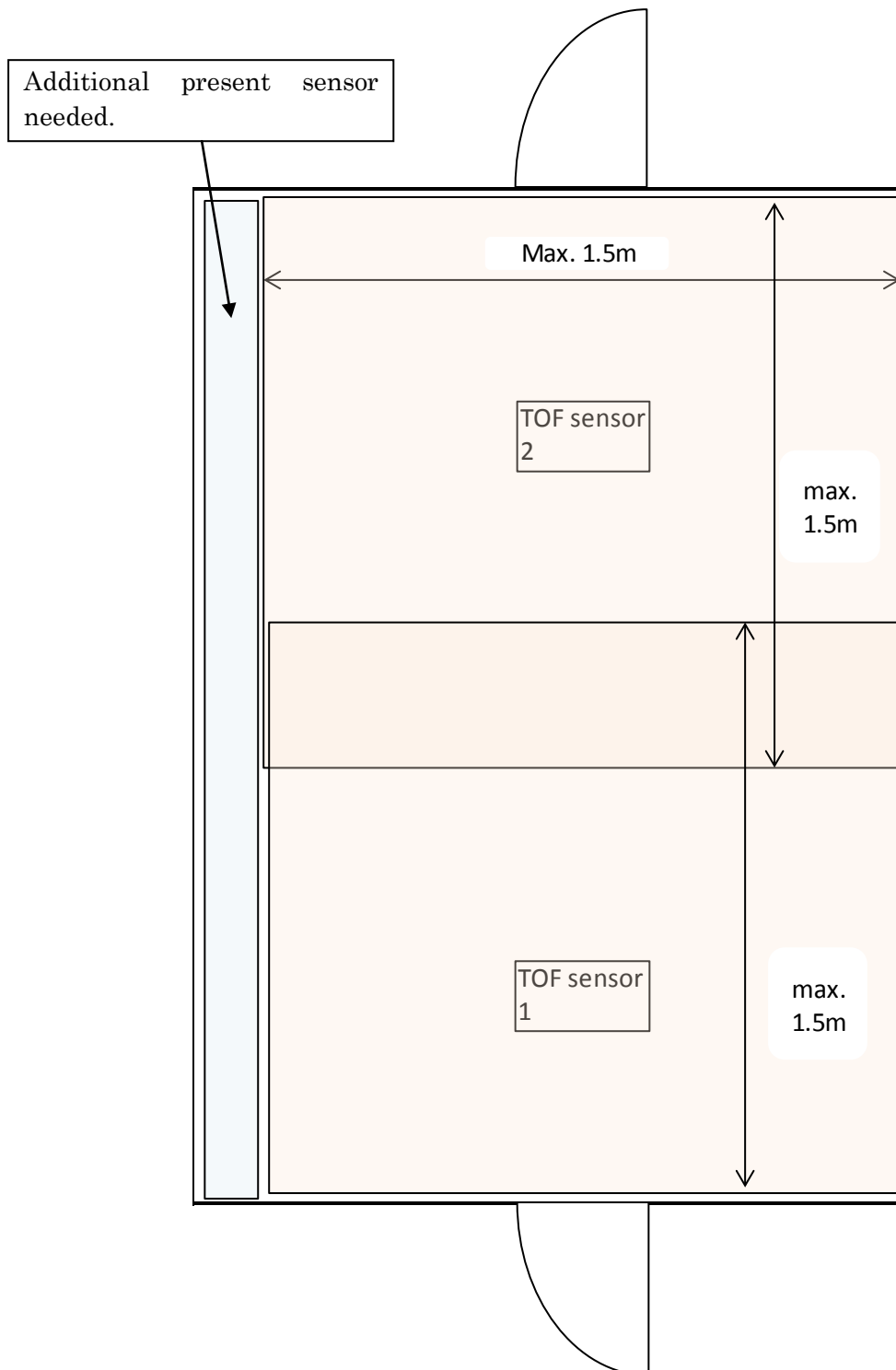
2. For front wiring assembly Front Case as shown in the figure on left lower, for back wiring assembly Front Case as shown in the figure on left upper.

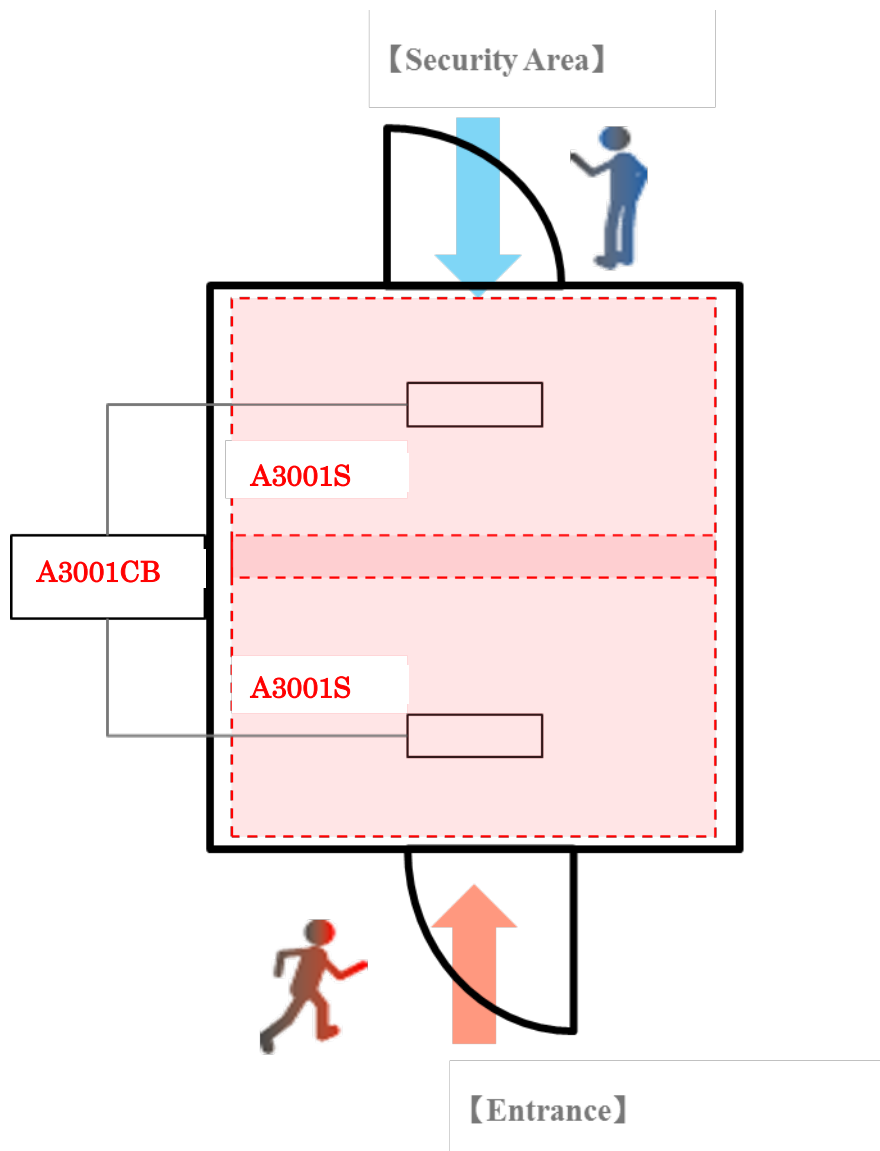
3. Installation

3-1. Installation dimensions (an example for Interlock Application)

3-1-1. Mounting position of A3001S TOF sensor

A3001S TOF sensor installation height : 2.3 – 2.6m (Standard) 2.6 - 2.9m (Higher version)





Interlock example

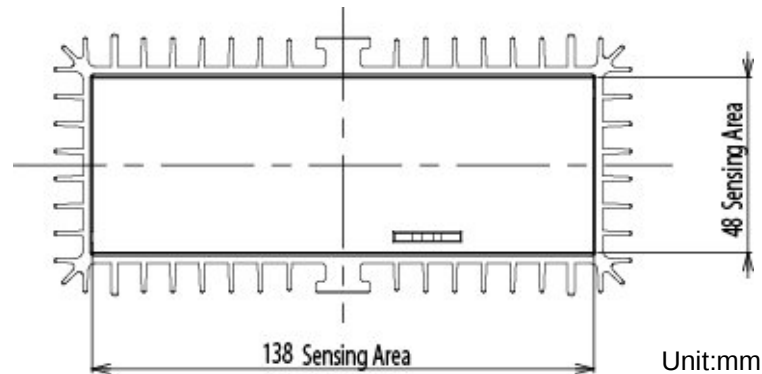
A3001CB can control two TOF sensors, A3001S at the same time.

3-1-2. How to mount TOF Sensor

When mount TOF Sensor, ensure that there is no obstacle in the Sensing Area (138mm*48mm) as shown in the figure below, and don't cover 30mm above TOF Sensor.

*Make sure that avoid contact of a part of the door (ex.brush) with the surface of Sensing area.

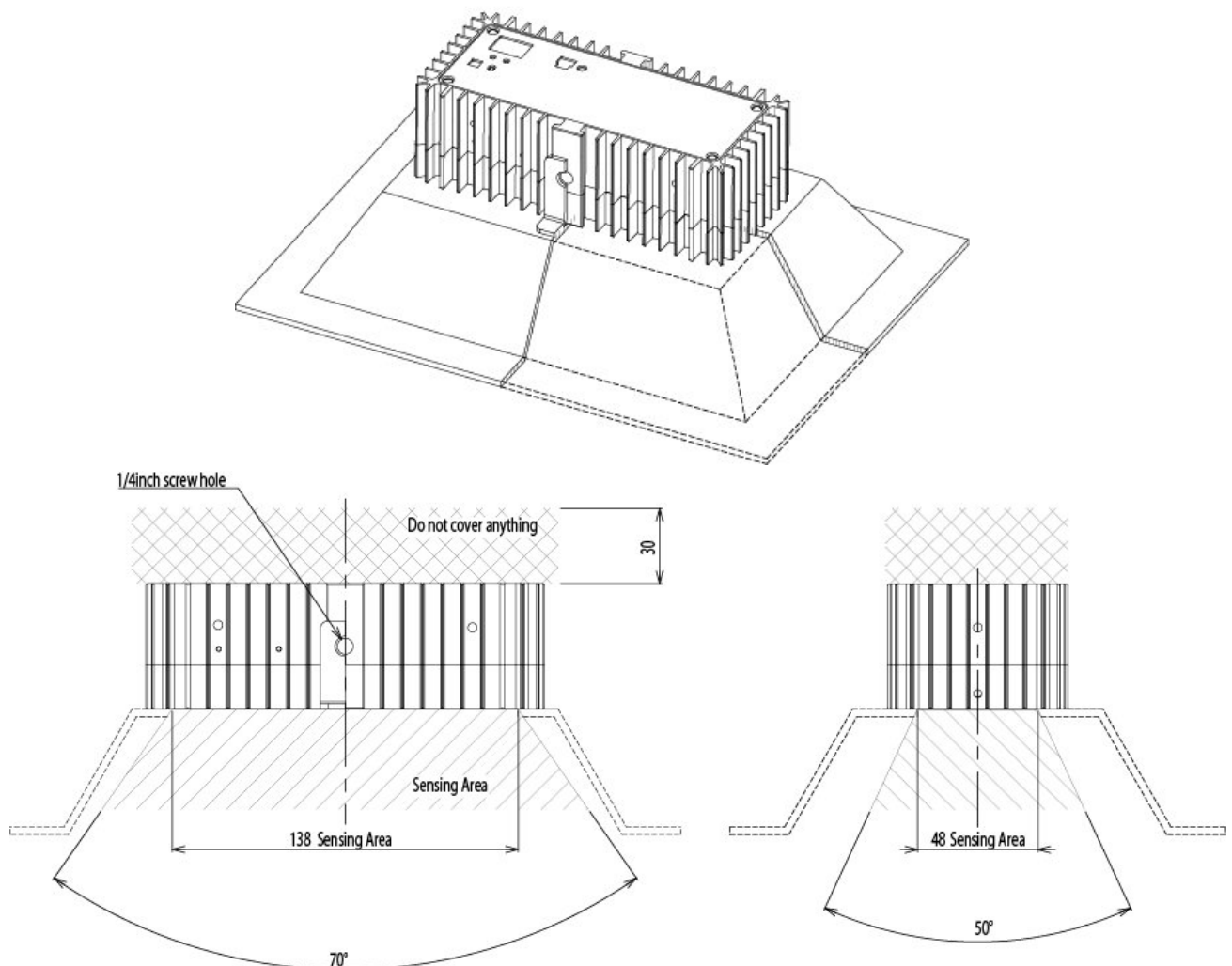
*Keep TOF Sensor not to feel static electricity to restrain the dust adhesion to a Sensing area.



If ceiling height is lower than 2.3m, make a mounting jig such as shown in the below.

*The following drawing is reference information.

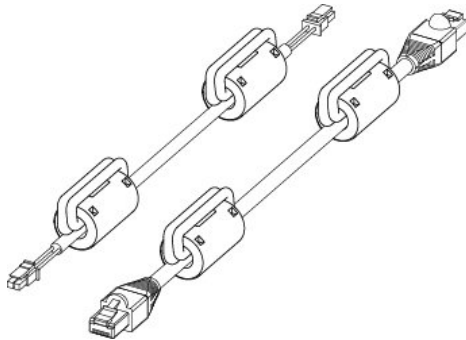
Actually, please mounting based on the usage of the door, each law and regulation.



3-2. Wiring

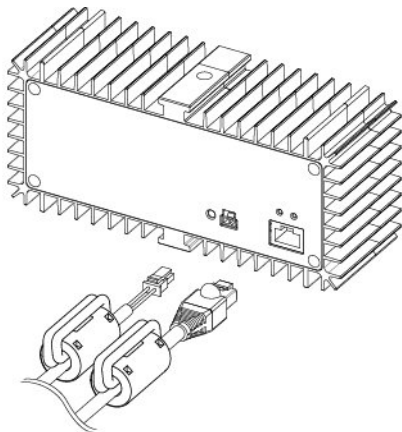
3-2-1. Wiring between Control Box and TOF Sensor

Connect the Control Box and TOF Sensor with the provided Sensor Power Cable and LAN Cable.

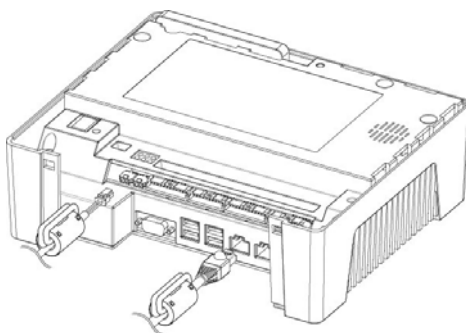


1. Prepare Sensor Power Cable and LAN Cable as shown in the figure on the left.

*When use two units of TOF Sensor, prepare 2set of each cable.



2. Insert both cables to back of the TOF Sensor as shown in the figure on the left.
Insert the connectors all the way until the lock is in place.
To remove connectors, pull out cables while pressing the locks.



3. Insert both cables to the Control Box as shown in the figure on the left.
Insert the connectors all the way until the lock is in place.
To remove connectors, pull out cables while pressing the locks.

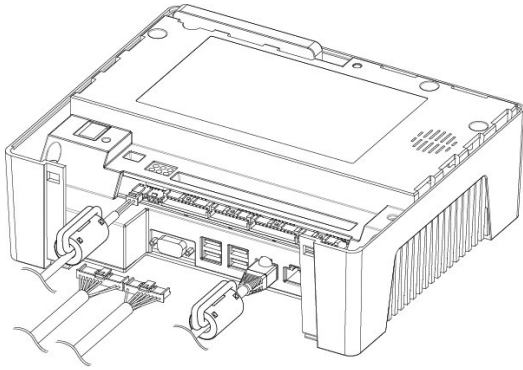
*When use one unit of TOF Sensor, please connect to LAN1 (left side)

4. When all cables are connected, TOF Sensor wiring is completed.

3-2-2. Wiring between Control Box and Door Controller

Connect the Control Box and Door Controller with the Cables.

1. Prepare the I/O Cables to connect I/O outputs/Inputs.

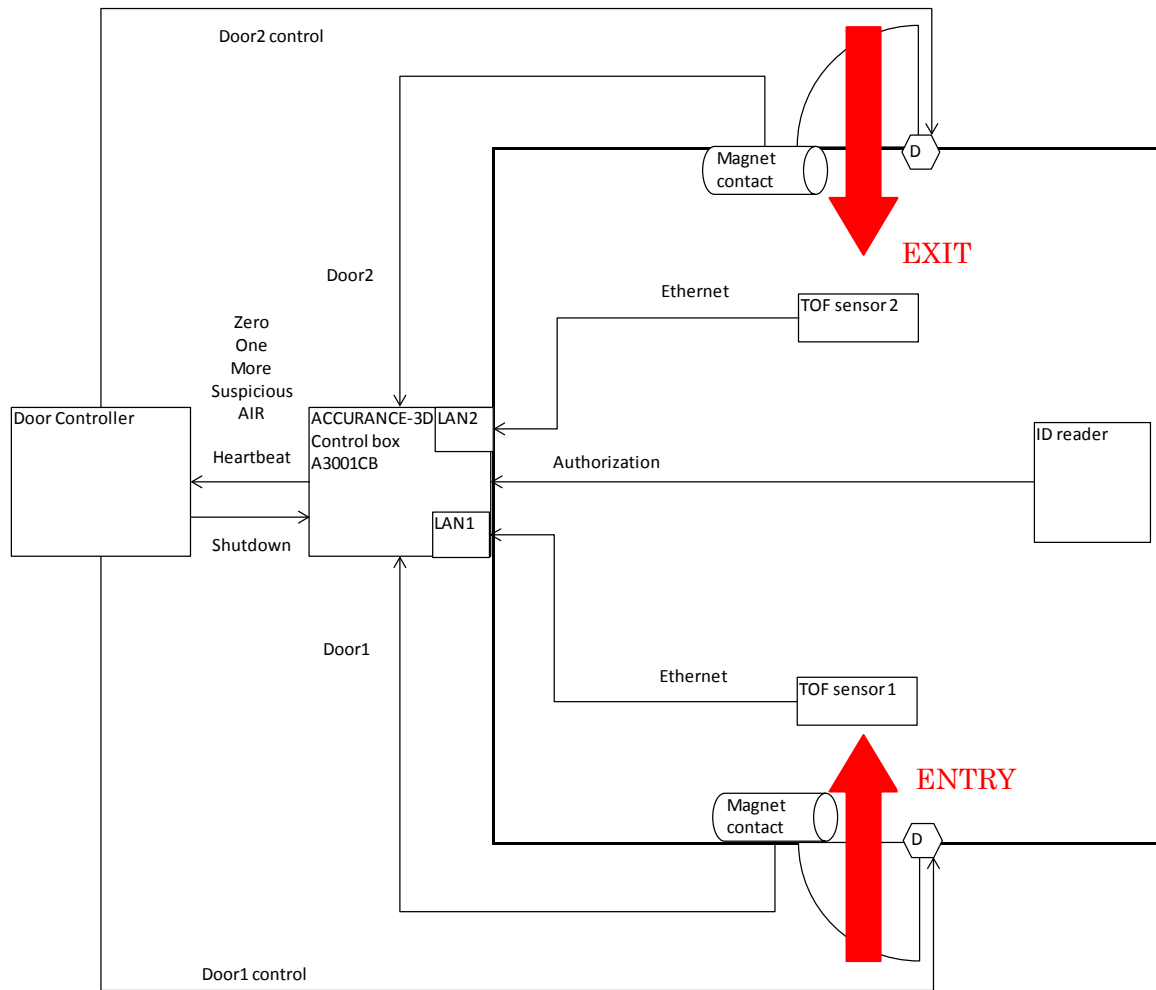


1. Connect the cables into the terminals on A3001CB and Door Controller or Door contact sensors.

*Making sure to insert PRIMARY side firstly.
When use one unit of TOF Sensor, use PRIMARY side only.

2. This completes the wiring between the Control Box and Door Controller.

(Installation example for Interlock Application)



< Wiring configuration between Door controller >

4.Initial Setting

4-1.PC Setting

4-1-1. Before Initial Setting

This product is installed and configured through wired LAN (Ethernet). Separately prepare a Windows PC and LAN cable for configuration of settings (installation). And when use two units of TOF Sensor, prepare Ethernet hub (*1).

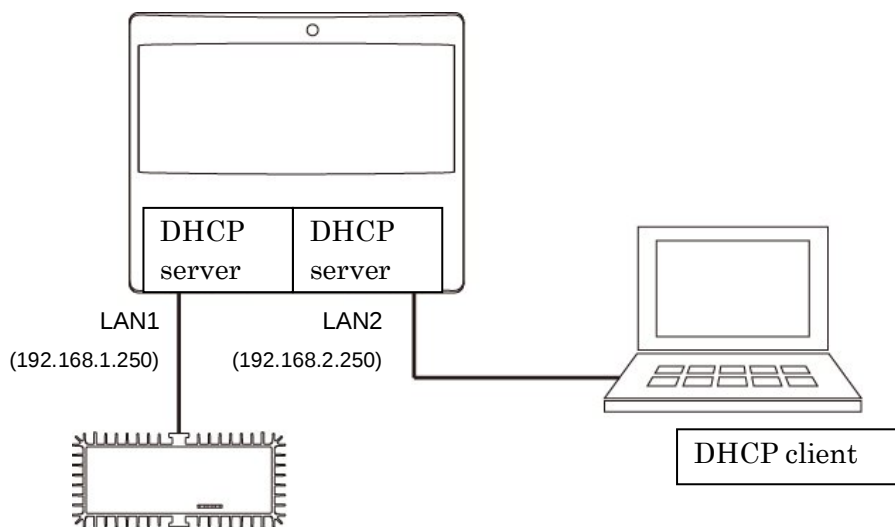
In addition, use Remote Desktop Connection (*2) for settings.

(*1) Please use more than transmission rate of 1Gbps.

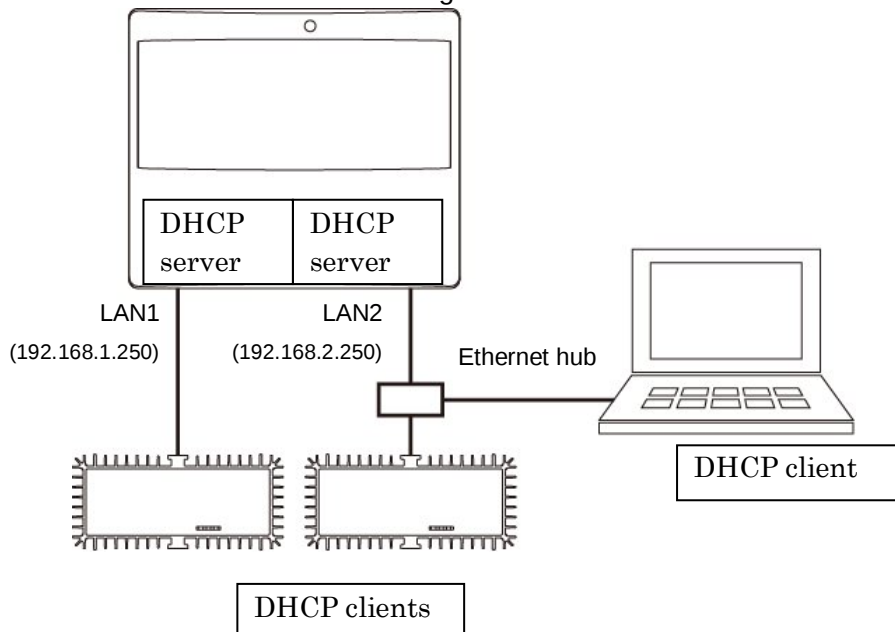
(*2) This product has been confirmed to work with Remote Desktop Connection (Windows XP, Windows VISTA, Windows 7, Windows 8)

4-1-2.LAN Connection

In case of 1 TOF sensor usage:

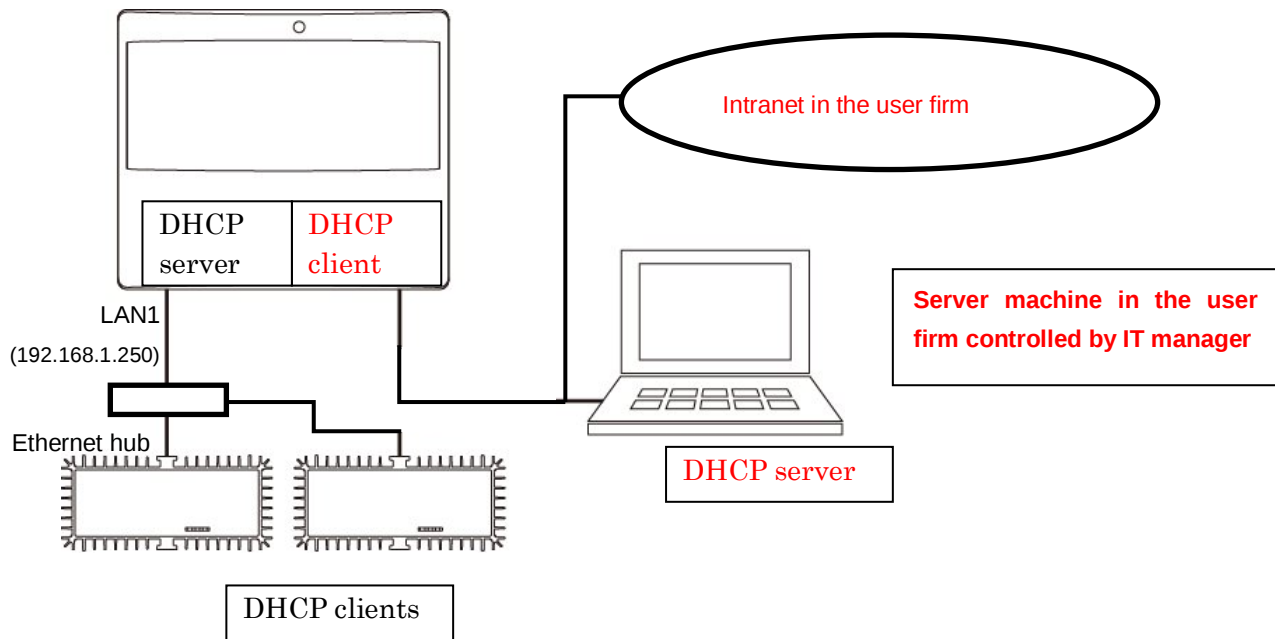


In case of 2 TOF sensors usage:



*After the initial setting, disconnect Ethernet hub.

In case of connecting to a intranet in the user firm.



NOTE : In this case IT manager of the intranet need to know MAC address of A3001CB. MAC address is indicated on the product.

NOTE : Ethernet interfaces are used as DHCP servers with static IP now, AUGUST 2014. OPTEX have a plan to make a static IP system without DHCP server only on LAN#2 later, but not now.

4-1-3. PC Setting – TCP/IP

To change setting from the factory setting, configure the wired LAN (TCP/IP) setting of your PC as follows;

Disable the proxy setting.

Enable one wired LAN only and disable all others, when not performing properly with multiple connections.

Disable a firewall since the firewall may influence the operation.

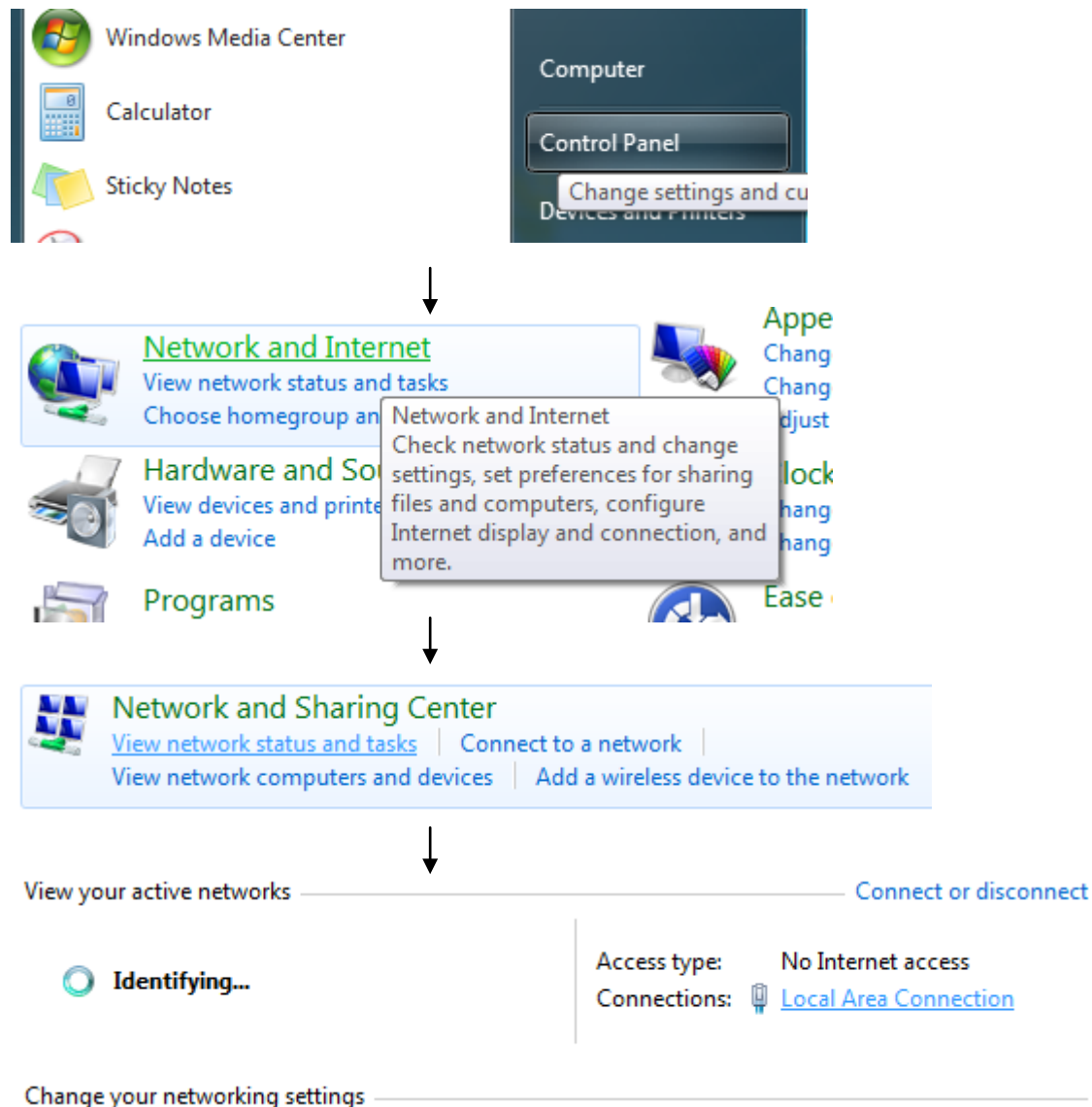
For the procedures of LAN setting of the PC, see the manual for your PC.

NOTE : Ethernet interfaces are used as DHCP servers with static IP now, September 2014. OPTEX have a plan to make a static IP system without DHCP server only on LAN#2 later, but not now.

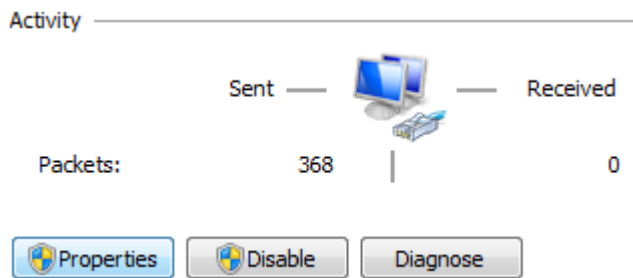
4-1-5. PC Setting - Remote Desktop Connection

4-1-5-1. PC Network Setting

Click Control Panel -> Network and Internet -> view network status and tasks -> Local Area Connection, and show the status of Local Area Connection.

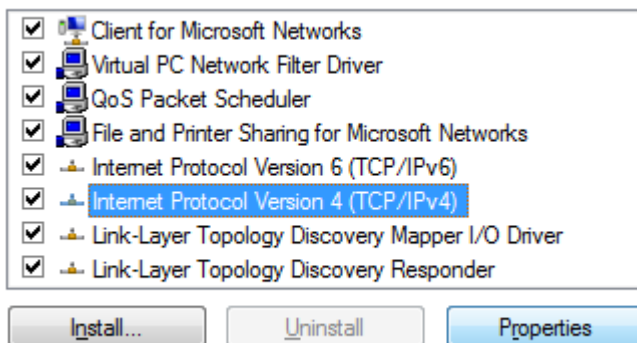


Click Properties of Local Area Connection Status.



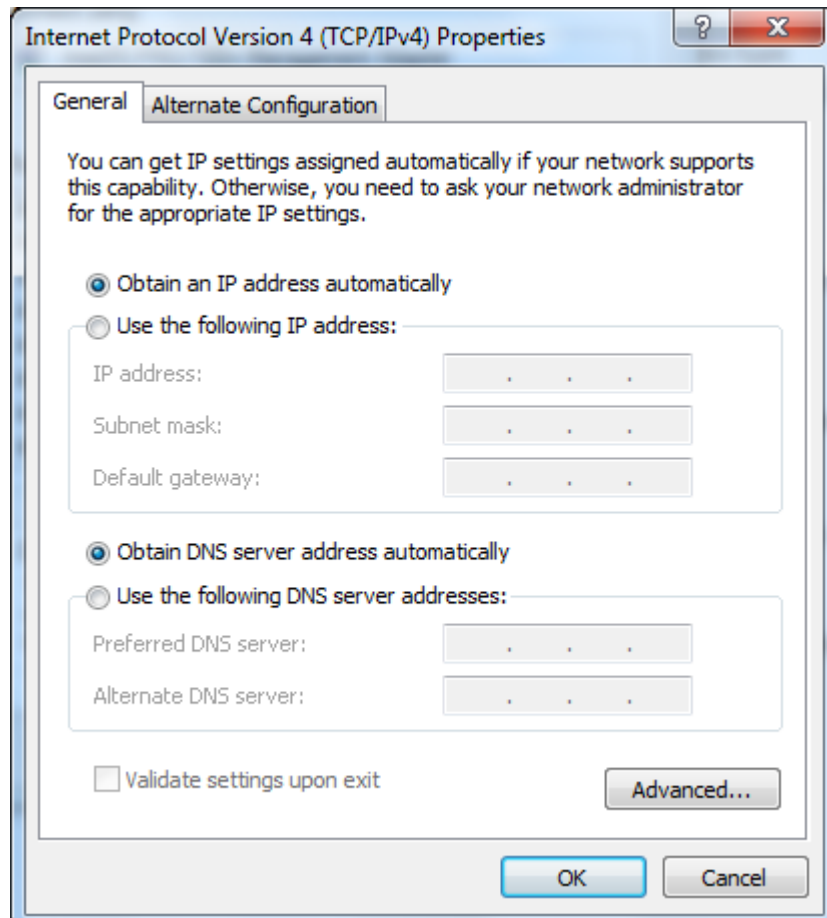
Select Internet Protocol Version 4 (TCP/IPv4) of Local Area Connection Status Properties, and click Properties.

This connection uses the following items:



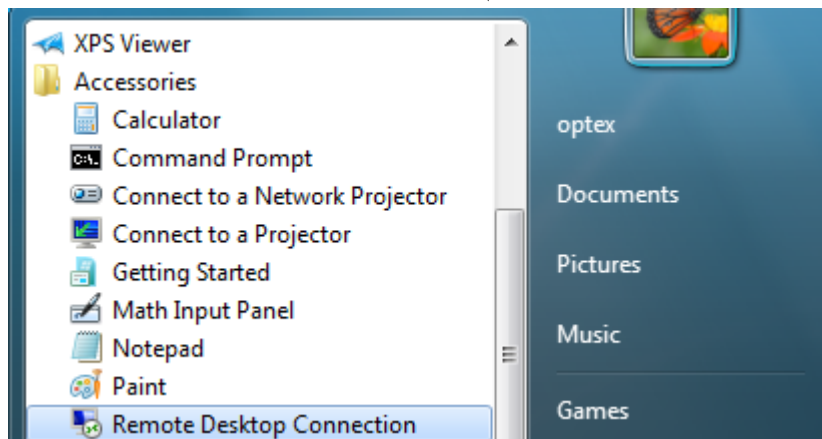
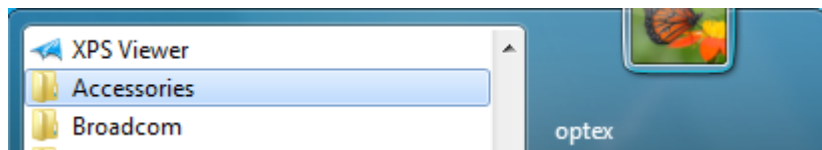
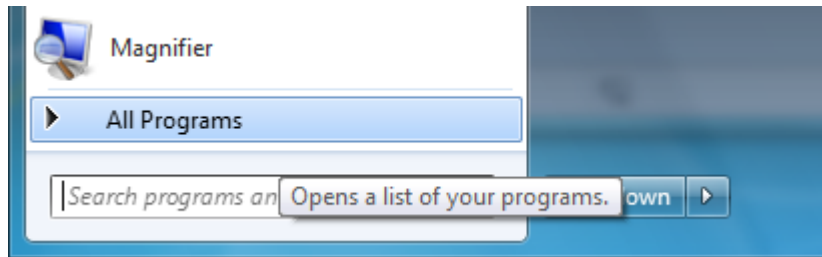
Description

Select Obtain an IP address automatically and Obtain DNS server address automatically of Internet Protocol Version 4 (TCP/IPv4) Properties, and click OK.

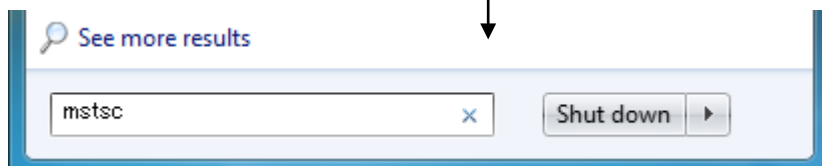
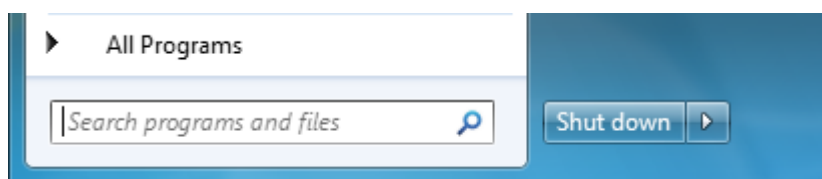


4-1-5-2. Start-up Remote Desktop Connection

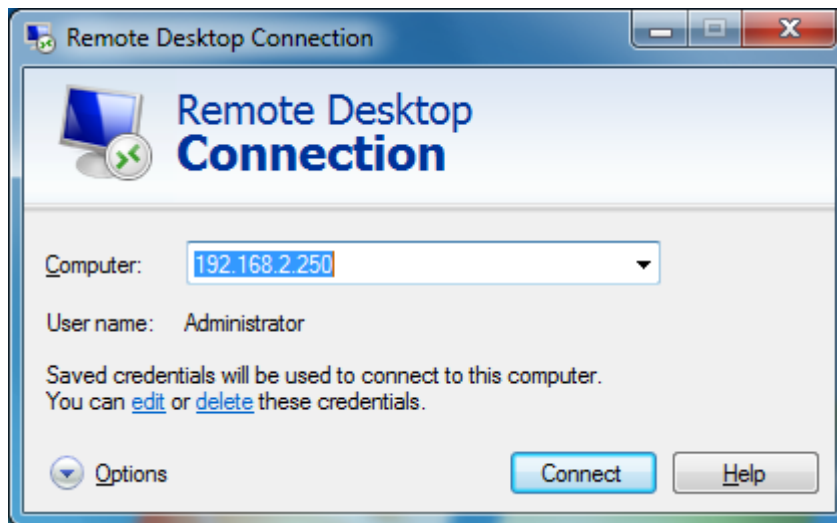
Click All Programs -> Accessories -> Remote Desktop Connection from Start menu.



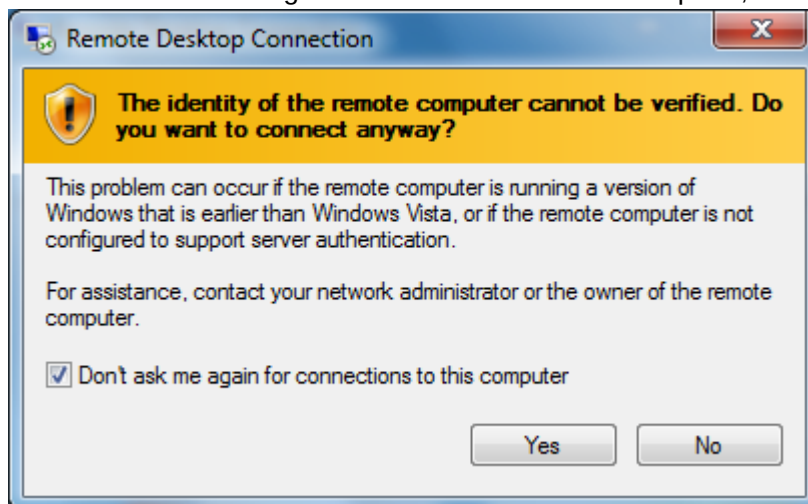
Or, input "mstsc" to Search programs and files of Start menu.



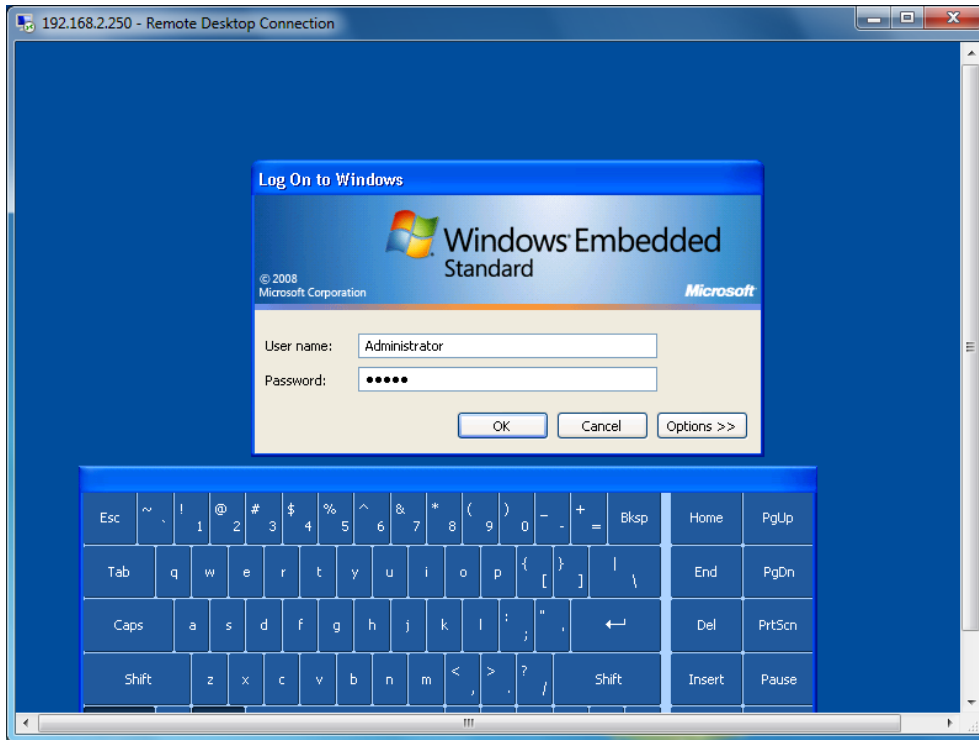
Input '192.168.2.250' to Computer: of Remote Desktop Connection, and click Connect.



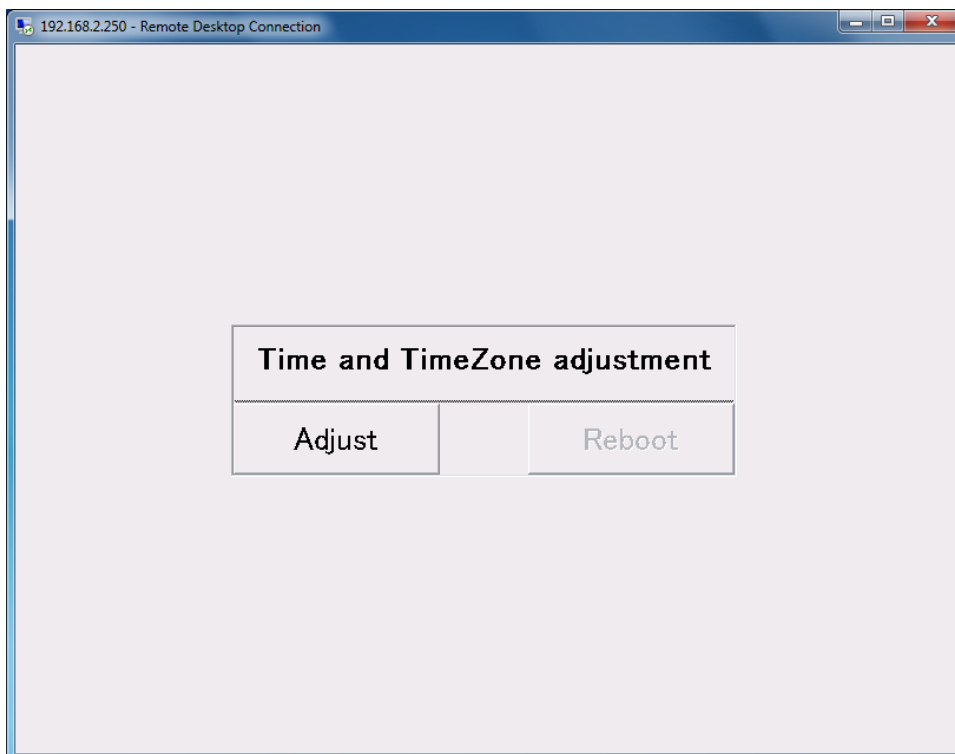
Select Don't ask me again for connections to this computer, and click Yes.



Input 'Administrator' to User name, "accurance" to Password, and click OK.



After Log On, the screen changes to ACCURANCE-3D application.



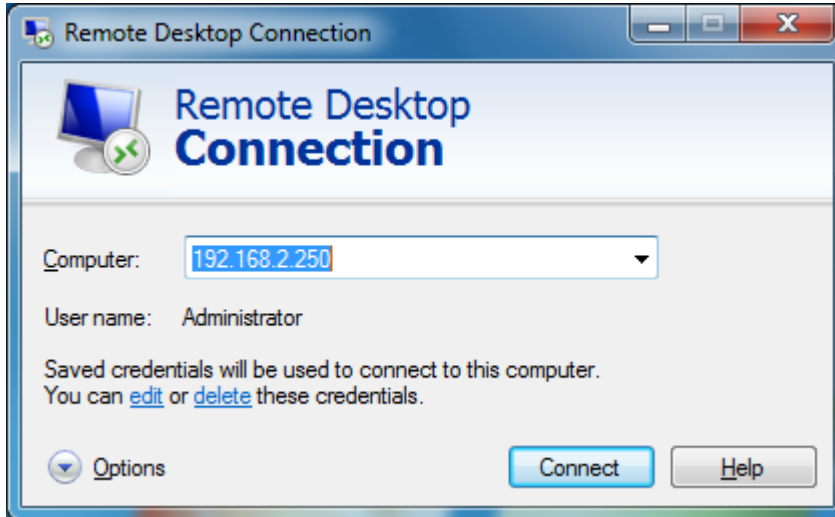
*For ACCURANCE-3D application setting, see 4-2 "Initial Setting of ACCURANCE-3D application".

4-1-5-3. Automatic Log On of Remote Desktop Connection

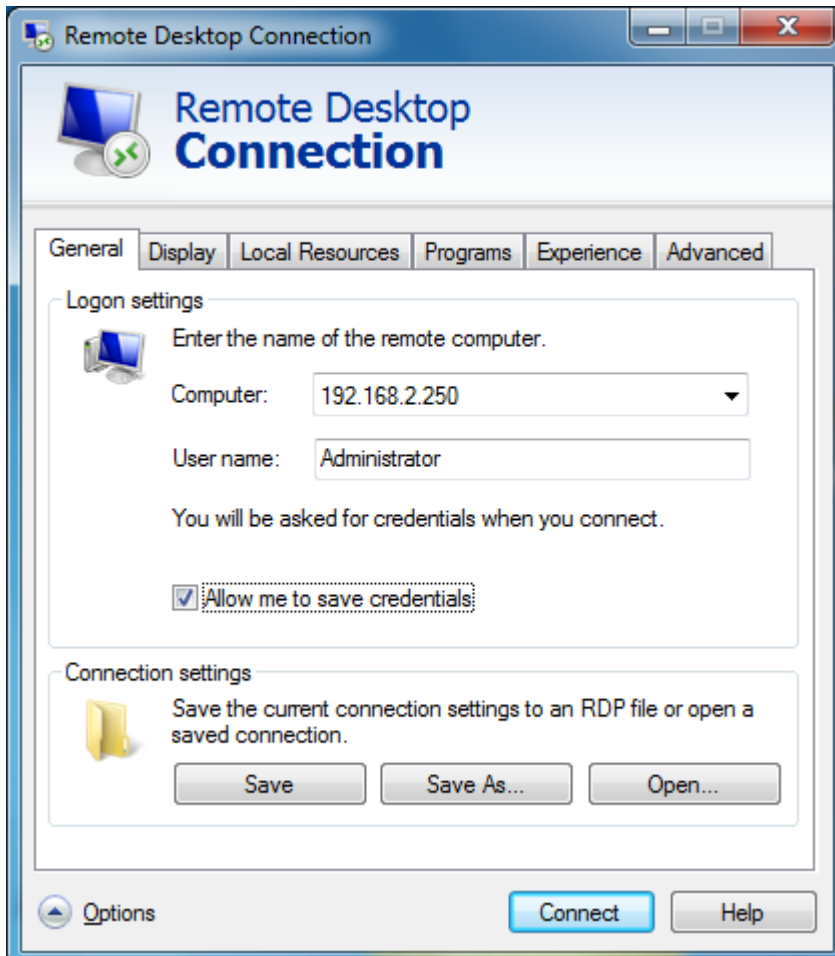
Reconnection of Remote Desktop Connection is necessary at the time of setting of the ACCURACE-3D application.

Performing the following setting is recommended.

Click Option of Remote Desktop Connection.



Input "Administrator" to User name, and select Allow me to save credentials, and click Connect.

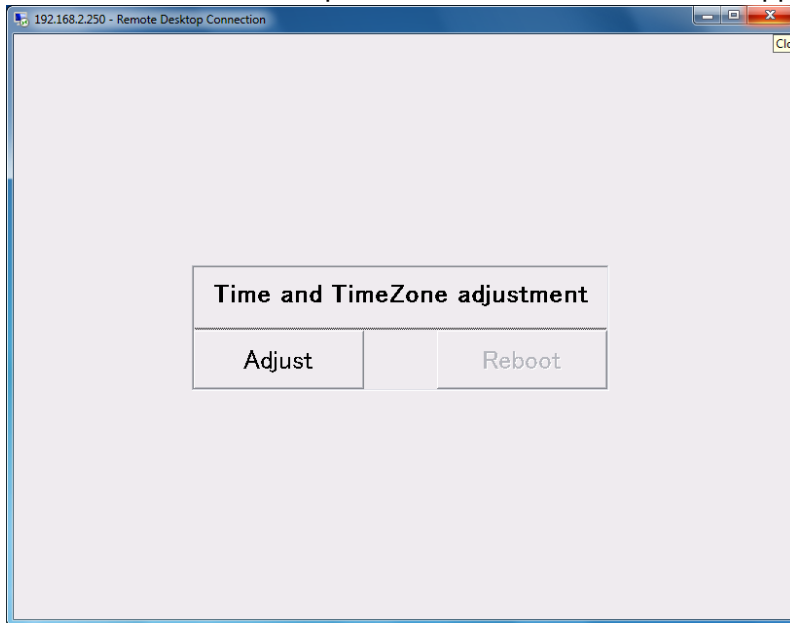


When asked "Do you trust this remote connection?", select Don't ask me again for connections to this computer, and click Connect.

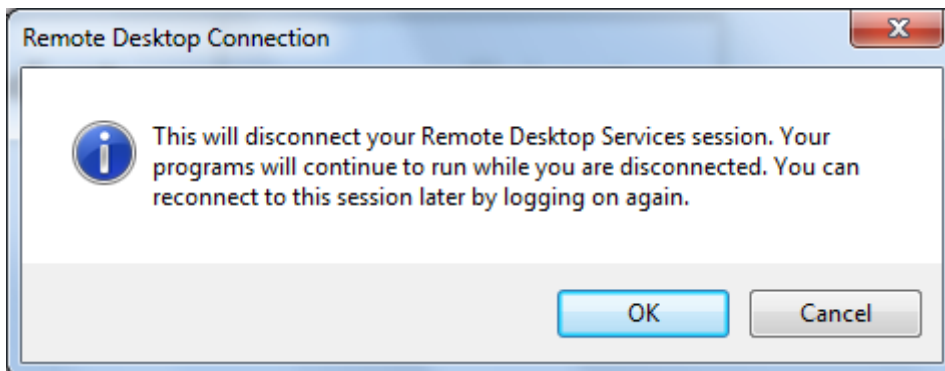
Input 'accuracy' to Administrator Password, click OK.

4-1-5-4. Remove of Remote Desktop Connection

Click X of Remote Desktop Connection in the corner on the upper right.



When asked "Remote Desktop Connection" pops up, click OK.



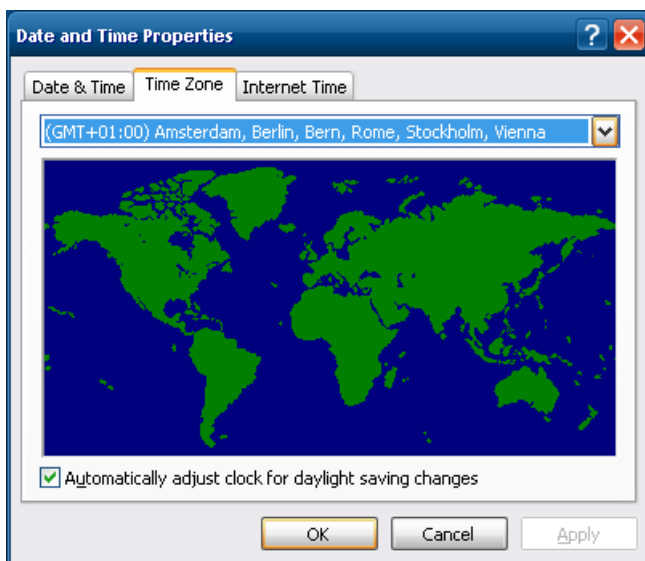
4-2. Initial Setting of ACCURACE-3D application

4-2-1. Date & Time Adjustment

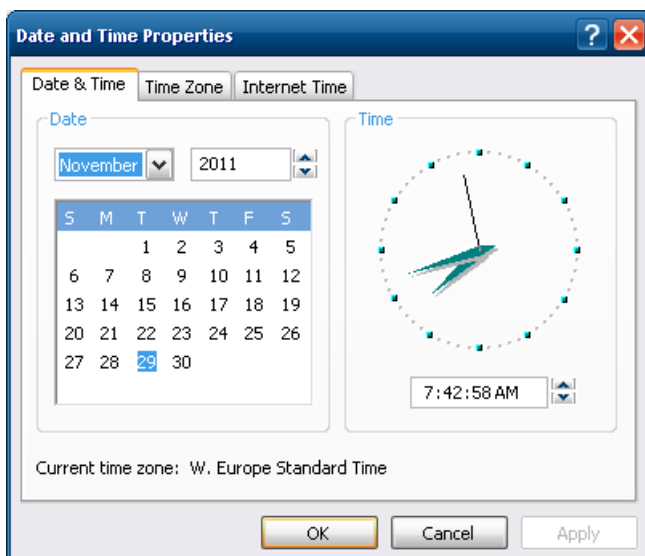


Firstly, adjust the time.
Click Adjust as shown in the figure of on the left.

Click Time Zone, and the following figure below appears.
Select the Area and click Apply.



Return to Date & Time, please confirm the setting of date and time.
*Date and time can also be changed later.



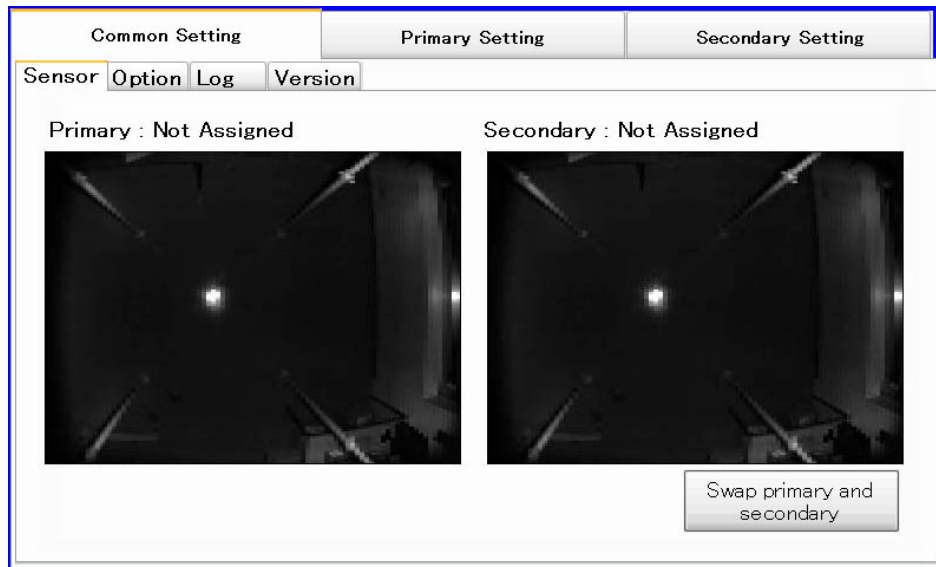
After adjusting date and time, click OK. And click Reboot on the first screen.
Wait for a while (2-3 minutes) for Control Box to reboot.

*When set to Automatic Log On of Remote Desktop Connection, reconnect the Control Box automatically. But User name and Password may need to be entered.

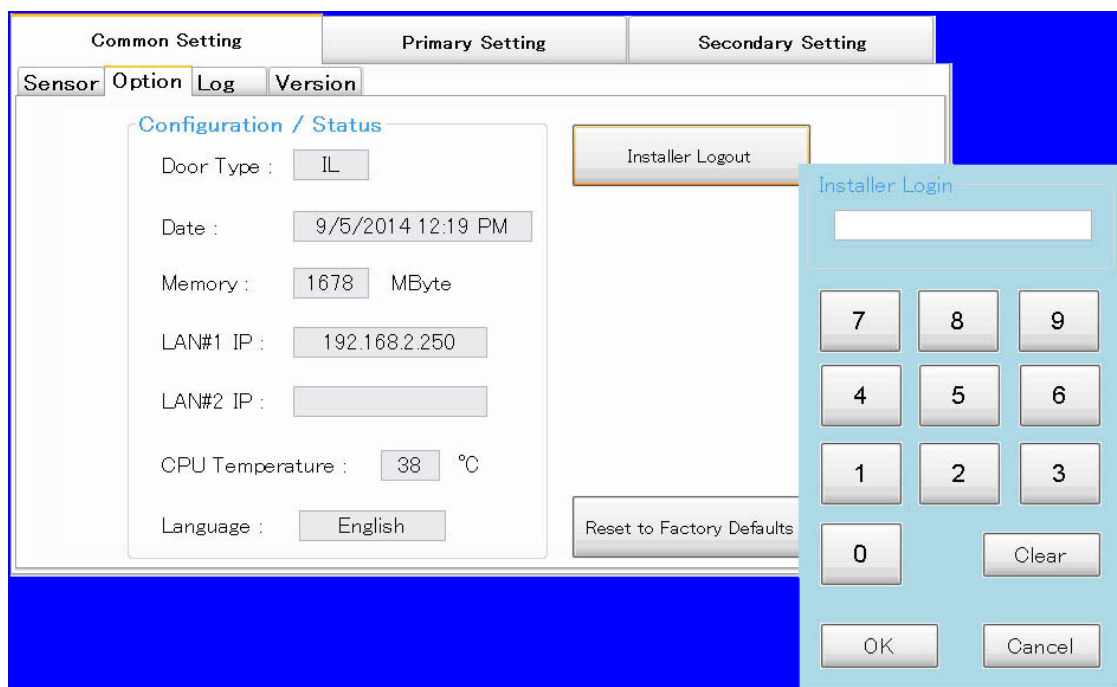
*For the setting of Automatic Log On of Remote Desktop Connection see 4-1-5-3 "Automatic Log On of Remote Desktop Connection" about the setting.

4-2-2. Installer Setting

After reboot Control Box, Click Option as shown in the figure on the below.



Click Installer Login as shown in the screen on the right.

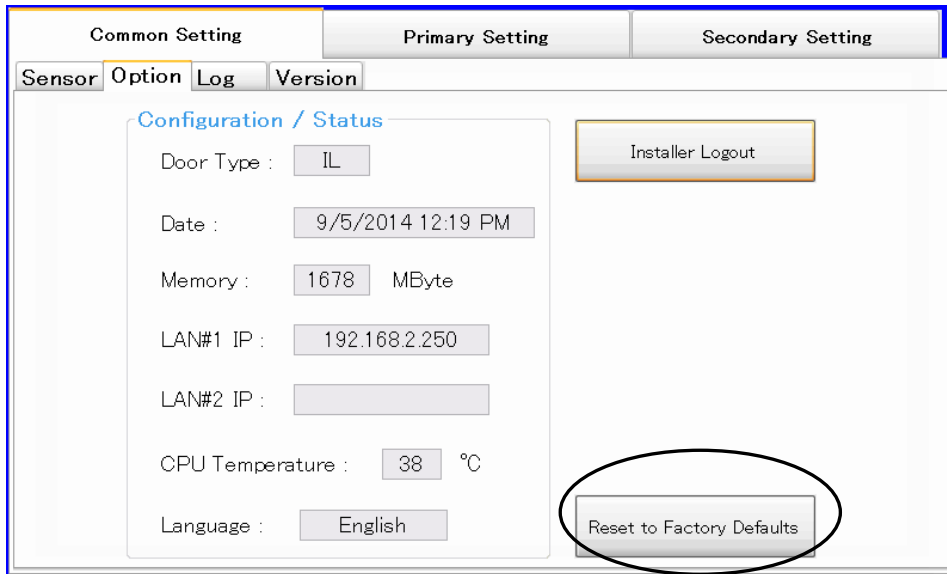


After typing the password, press OK on the password-typing screen.

After Login "Login successful" appears, click OK.

Password is "1111" now. It is temporary.

When logged in, and the background of the screen (This manual is printed black and white) becomes blue, and the buttons are added.



Common Setting Primary Setting Secondary Setting

Sensor Option Log Version

Configuration / Status

Door Type : IL

Date : 9/5/2014 12:19 PM

Memory : 1678 MByte

LAN#1 IP : 192.168.2.250

LAN#2 IP :

CPU Temperature : 38 °C

Language : English

Installer Logout

Reset to Factory Defaults

When using two units of TOF Sensor, please check that Primary and Secondary are set respectively for each TOF Sensors.

When not correctly set, click button of "Swap primary and secondary".



Common Setting Primary Setting Secondary Setting

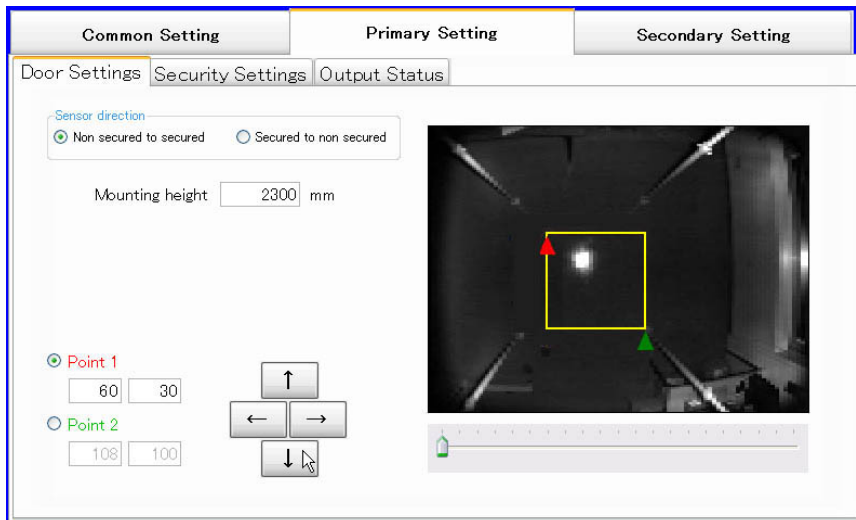
Sensor Option Log Version

Primary : Not Assigned

Secondary : Not Assigned

Swap primary and secondary

4-2-3. Door Setting



< Before Position Setting >

Sensor Direction

Select the direction of the sensor.

Select whether the installation is for detection from the non-secured side to the secured side or from the secured side to the non-secured side.

Mounting Height / Diameter

Select the values of Height Under Canopy and Door Diameter.

Set rest position

Confirm the Door Position is at the rest position, and click the button.

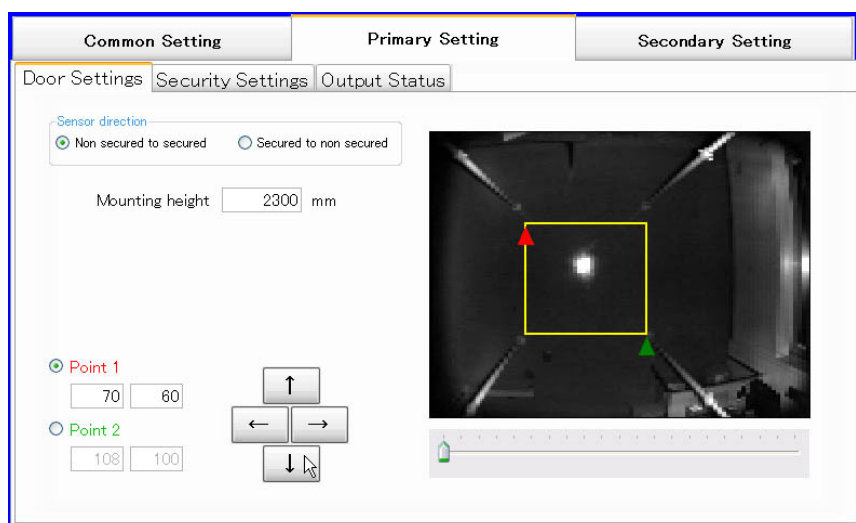
Door Position Setting

Point 1 (left-side upper position)

Select the "Point 1" button and click the **left-side upper position** shown on the floor on the screen as shown in the figure above (on the picture I wrote an appropriate detection zone). This position can be fine-adjusted by using the arrow buttons on the screen.

Point 2 (right-side lower position)

Select the "Tip of End Position" button to click the **right-side lower position** shown on the floor on the screen as shown in the figure above. This position can be fine-adjusted by using the arrow buttons on the screen.



< After Position Setting >

4-2-4. Security Settings

Common Setting		Primary Setting		Secondary Setting	
Door Settings Security Settings Output Status					
Volume	Low security	5	High security	Output More person	
Moment	Low security	5	High security	Output More person	
Low object	Low security	5	High security	Output Suspicious	
Sensor Blinding	Low security	5	High security	Output Suspicious	
One person	Low security	5	High security	Output Suspicious	
More person	Low security	5	High security	Output More person	

< Parameter Setting >

NOTE : Default setting is All=5.

This product has six sensitivity adjustments: Volume, Moment, Low object, Sensor Blinding, One person and More persons.

All sensitivity controls have the options of 1 to 9 and the factory settings for all controls are 5.

Changing these settings allows the adjustment of piggy-backing sensitivity.

Increasing the sensitivity setting value makes the piggy-backing sensitivity higher but may increase the possibility of false rejection.

Decreasing the sensitivity setting value makes the piggy-backing sensitivity lower but decreases the possibility of false rejection.

*Values are reference only, and vary depending on the installation environment.

Volume

The piggyback detection is influenced more by other parameters such as "More persons" and "Moment" when choosing Low.

When "Volume" rejection occurs, Red LED turns on for 2 sec indicating "More persons" output.

Moment

The piggyback detection is influenced by setting of other parameters such as More persons" and "Volume" when choosing Low.

When "Moment" rejection occurs, Red LED turns on for 2 sec indicating "More persons" output.

Low object

If a "Low Object" rejection occurs, the blue and red LED will illuminate for 2 seconds indicating "Suspicious" output.

Sensor Blinding

When a "Sensor Blinding" rejection occurs the blue and red LED will illuminate for 2 seconds indicating "Suspicious" output.

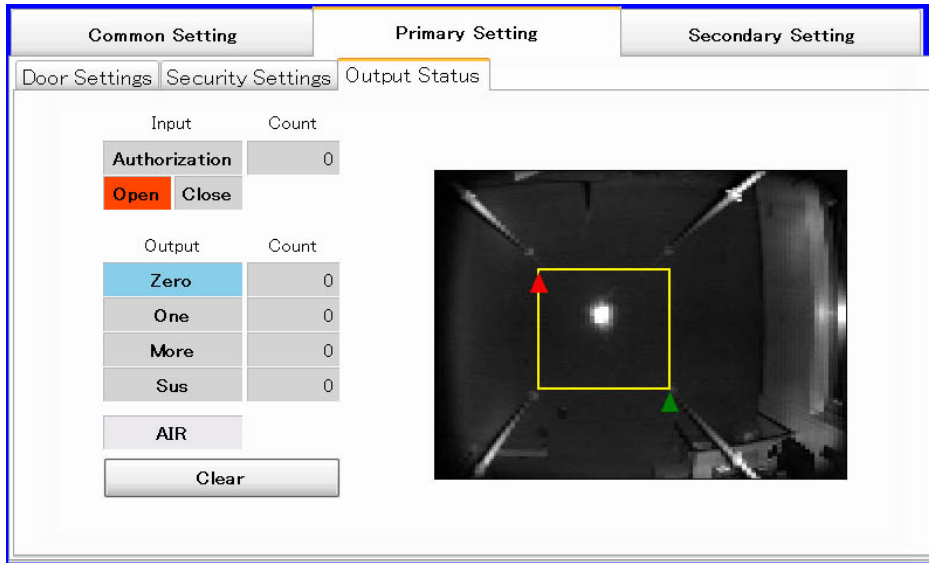
One person

If the "One Person" is not recognized, a rejection occurs and the blue and red LED will illuminate for 2 seconds indicating "Suspicious" output.

More person

If a "More Person" rejection occurs, the red LED will illuminate for 2 seconds indicating "More Person" output.

4-2-5. Output Status



Input	Count
Authorization	0
Open	
Close	

Output	Count
Zero	0
One	0
More	0
Sus	0

AIR

Clear

This product counts each output.

Authorization

When an authorization signal is received from Door Controller, the background color turns into red. It shows the number of authorization.

Zero, One, More, Sus

Each background color is changed by output result.

It shows the number of output.

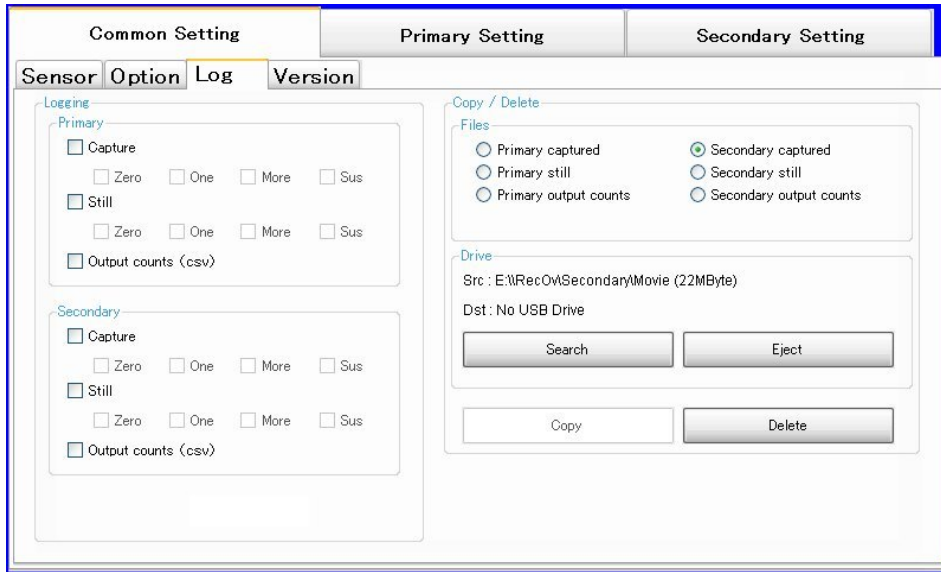
AIR

When outputting AIR Detection, the background color turns into red.

Reset the number of the counts with "Clear" button.

*When using two units of TOF Sensor, please set Secondary Setting in the same way as above.

4-2-6. Output Log / Delete Log



This product records authorization logs with capture data.

Note: As capturing video is heavy load do not set it unless necessary.

Logging Setting

Select 'Capture' or 'Still' both for PRIMARY and SECONDARY, and select the output result 'Zero' 'One' 'More' 'Sus' to be recorded.

When wishing to record the number of outputs, select 'Output counts (csv)'.

*The logging is stopped automatically when;

- The memory of SSD is full.
- The temperature of Control Box becomes high.

The log can be output to an external device via the USB ports on Control Box.

Cancel Log

Cancel the setting of Log as described in 1. Ready to Log.

Select Log

Select the output logs to be copied from Files as shown on the screen.

Connect external memory to USB port on the Control Box.

After connecting external memory, click 'Search' button at Drive section on the screen.

When the memory device is recognized, the memory information is shown at Dst:.

Src: shows the capacity of output Log, confirm the capacity of the external memory as shown Dst:.

Output Log

After confirming the capacity of memory is enough for the capacity of output log, click 'Copy' at the bottom right on the screen.

Please wait until finish output Log.

Remove External Memory Device

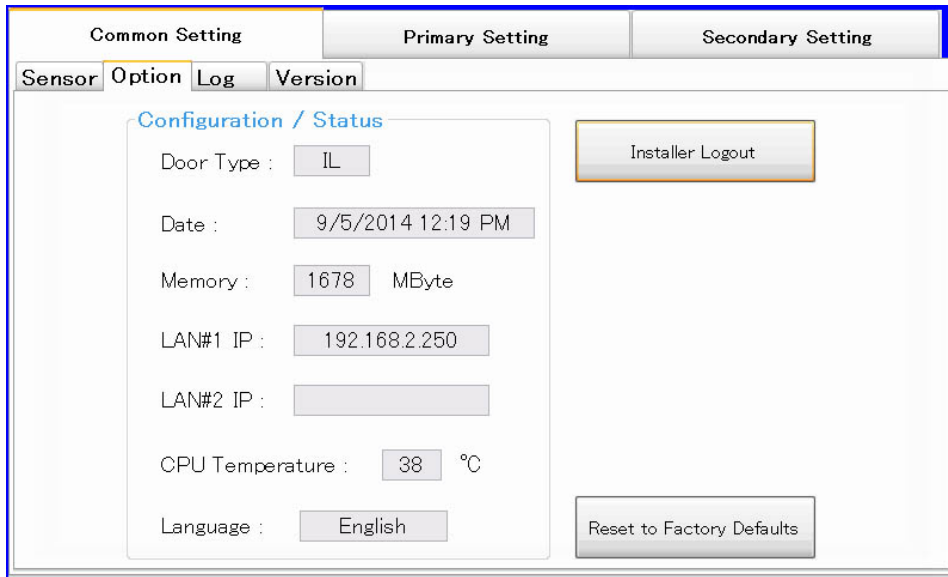
When completing output of the Log, click 'Eject' inside of Drive on the screen.

When the memory device is disconnected, remove the device.

Delete Log

Select output log from 'Files', and click 'Delete' at bottom right on the screen.

4-2-7. Installer Logout



The screenshot shows the 'Common Setting' tab with the following configuration:

- Door Type : IL
- Date : 9/5/2014 12:19 PM
- Memory : 1678 MByte
- LAN#1 IP : 192.168.2.250
- LAN#2 IP :
- CPU Temperature : 38 °C
- Language : English

Buttons visible: 'Installer Logout' and 'Reset to Factory Defaults'.

When finish all settings, click the button of "Installer Logout".

When logged out, and the background of the screen becomes gray, and the three buttons will disappeared.

5. Operation Checking

When all settings have been made, enable the "free in" (non-authorization) mode of the door and check the operations as described below:

Rotate the door with no object (person) to detect. Make sure that the blue indicator LED is illuminated for 0.2 seconds.

Let one person enter the door. Make sure that the blue indicator LED is illuminated for 2.0 seconds.

Let two people enter the door (piggy-backing). Make sure that the red indicator LED is illuminated for 2.0 seconds.

If the above outputs show no problem, switch the door mode to the authorization mode and perform the same test. In the authorization mode, the door stops at the detection of two people entering together (piggy-backing) and prevents the entry. Try several different ways of entry (ex.: one person with a bag in hand) and make sure that there is no false rejection.

If there is any problem found in the detection or any site-specific problem, see 4-2-5 "Sensitivity Setting" to change the sensitivity setting as required.

This completes operation checking.

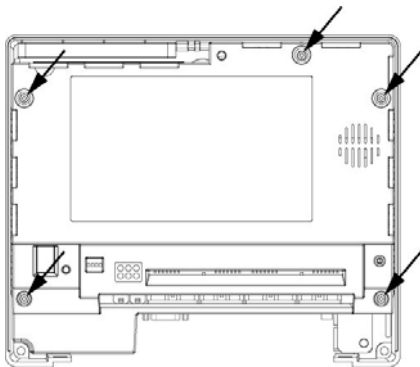
6. Troubleshooting

Problem	Check if...	Corrective action
Does not operate	Power indicator (green LED) of Control Box and TOF Sensor is on.	Check the wiring between TOF Sensor and Control Box. See 3-2"Wiring" Check the switch of Control Box is turned on. Check the switch of door system is turned on. Check the wiring between Control Box and door system. When use one unit of TOF Sensor, use PRIMARY side only.
Door suddenly stops	Transmission rate of Ethernet Hub is more than 1Gbps. Ethernet Hub is removed.	Use Ethernet Hub with 1Gbps or higher. Remove Ethernet Hub and connect LAN cable directly to Control Box and TOF Sensor.
Problem relating to initial settings		
No Remote Desktop Connection	ACCURACE-3D A3001CB application screen (4-1-5-4) is appeared.	Check the wiring between Control Box and PC. See 3-2-1"Wiring between Control Box and PC" Check the switch of Control Box is turned on. Check the setting of PC. See 4-1-4."PC Setting - TCP/IP" and 4-1-5."PC Setting - Remote Desktop Connection".
No image on the screen	The power indicator (green LED) of TOF Sensor is on. Red and Blue LED of the TOF Sensor are Simultaneously blinking.	Check the wiring between TOF Sensor and Control Box.
Wrong detection		
Door stops at Plus position	Primary and Secondary are set respectively for each TOF Sensors.	Swap Primary and Secondary. See 4-2-2"Installer Setting"
Many False rejection	Front side of TOF Sensor is clean. (No dust, no scratch)	Wipe the front side of TOF Sensor with a damp cloth. Change TOF Sensor.
	Door Setting (4-2-3) is set correctly	Check the setting of Door setting. See 4-2-3"Door Setting"
Problem relating to Log		
Cannot record Log / no logged file saved	SSD is set Logging is set The memory of SSD is full	Check the connection of SSD. Check the setting of Logging See 4-2-6"Output Log / Delete Log" Delete existing log files.
Cannot copy Log files	External memory device is set	Check the connection of external memory device. Check the capacity of external memory device is enough for output log files.

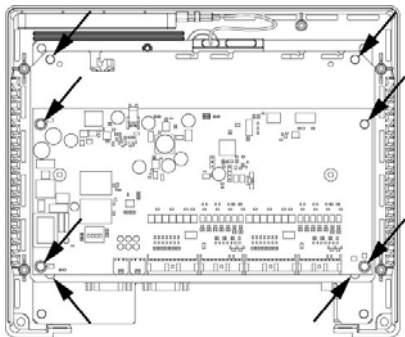
7. How to remove battery safely

Control Box has a button-type battery on inside material. When you replace and/or dispose the battery, please see below;

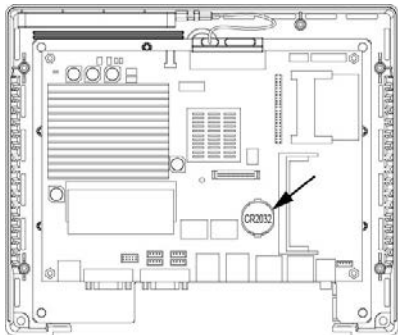
And, make sure turn off the power of the Control Box and disassemble wirings.



Disassemble 5 screws as shown in the figure on the left. And take out the cover.



Next, disassemble 8 screws as shown in the figure on the left.



Replace and/or dispose the battery (CR2032) on the material as shown in the figure on the left.

When dispose the old battery, please treat it according to the local law.

OPTEX CO.,LTD.

5-8-12 Ogoto Otsu 520-0101, Japan

TEL.: +81 (0)77-579-8670 FAX: +81 (0)77-579-8190

URL:<http://www.optex.co.jp/e/>

OPTEX TECHNOLOGIES B.V.(THE NETHERLANDS)

Tiber 2. 2491, DH The Hague, The Netherlands

TEL.: +31-70-419-4100 FAX: +31-70-317-7321

URL:<http://optex.nl/>

OPTEX (EUROPE) LTD./EMEA HQ (U.K.)

Marandaz House

1 Cordwallis Park, Clivemont Road, Maidenhead, Berkshire, SL6 7BU

TEL.: +44-1628-631000 FAX: +44-1628-636311

URL:<http://www.optexeurope.com/>

Specifications Draft *.* OCTOBER 2014

59-1900-00