USER MANUAL

I/O Control Box

RoHS conform
All lead-free products offered by the company comply with requirements of the European law on the Restriction of Hazardous Substances (RoHS) directive, which means our manufacture processes and products are strictly "lead-free" and without the hazardous substances cited on the directives.

The crossed-out wheeled bin mark symbolizes that within the European Union the product must be collected separately at the product end-of-life. This applies to your product and any peripherals marked with this symbol. Do not dispose of these products are unsorted municipal waste. Contact your local dealer for procedures for recycling this equipment.

CE CE Mark
This apparatus is manufactured to comply with the radio interference.
The company does not warrant that this manual will be uninterrupted or error right to revise or remove any content in this manual at any time.
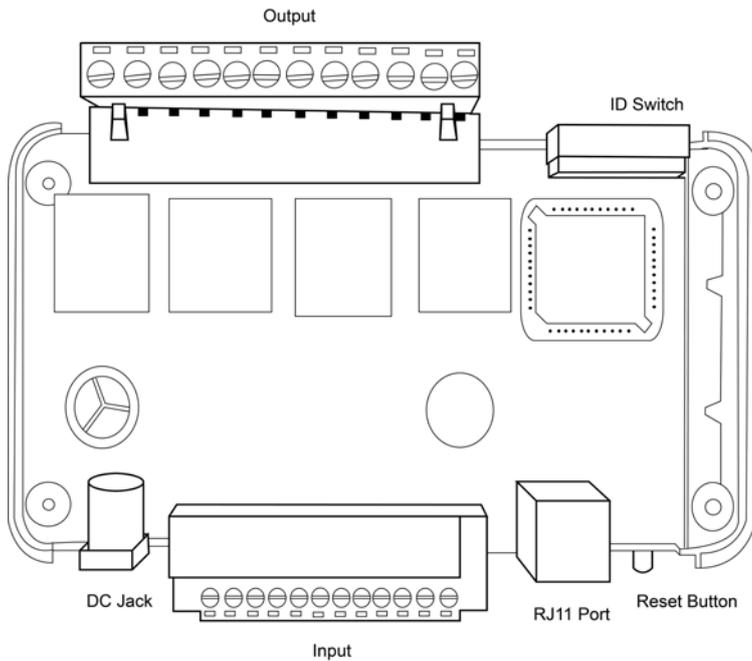
GENERAL DESCRIPTION

AVX951A is an I/O control box for integrated monitoring. Be paired with an AVTECH camera with RS485 protocols, it enables users to control multiple external devices at the same time for building an automation system. As a small but a capable device, this control box provides 4 inputs and 4 relay outputs, and which support both DC and AC output voltages. In addition, LED indicator provides users with the operating status for their reference.

The following are the key features of this product:

- 4 inputs and 4 outputs are provided for **external devices connection**.
- Multiple pieces of AVX951A can be chained together to **expand the I/O capacity** for **automation systems**.
- With **diagnostic LED lights**, user can easily perceive the unusual connection and solve the problem immediately
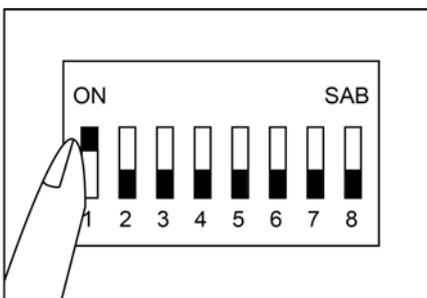
PANEL OVERVIEW

INSTALLATION

Before you install AVX951A, please make sure:

 - ➢ You have an AVTECH camera with RS485 protocols
 - ➢ Find a RJ-11 cable and two terminals supplied with the package
 - ➢ Insert two terminals into AVX951A and fix them with screws

Then, follow the instructions below to set up AVX951A:

Step1: Assign ID to AVX951A

As shown below, use ID switch and choose a value from 1 to 8 to assign ID to the AVX951A to be connected. (1 means the least significant bit and 8 means the most significant bit)
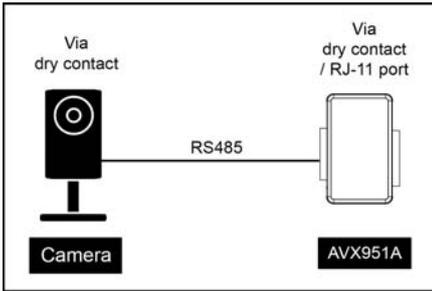

AVX951A is able to support two devices to be chained together to expand the I/O capacity. To distinguish one device from another, please assign different IDs to the two devices.
For example, to assign "1" to AVX951A, push the switch1 upward, and keep the rest of switches downward. On the other hand, to assign "2" to another AVX951A, please push the switch2 upward, and leave the rest down.
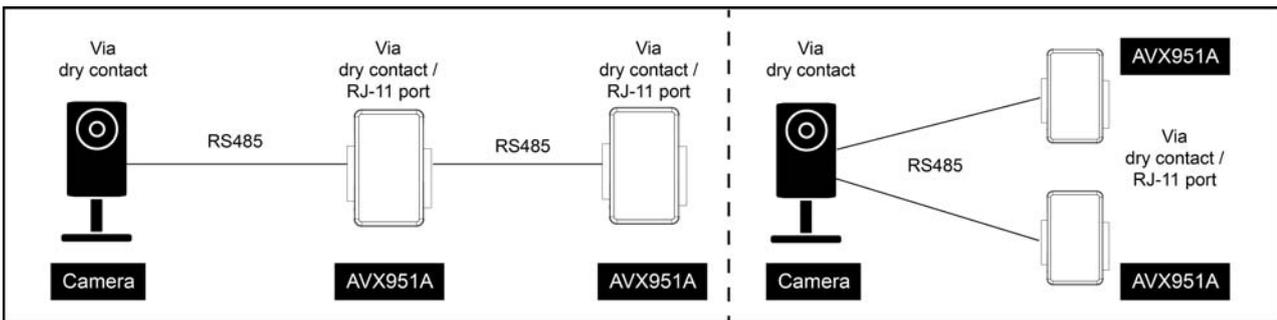
Step2: Communicate AVX951A(s) with your camera

If you have only one AVX951A,

The distance between each device can be up to 100M

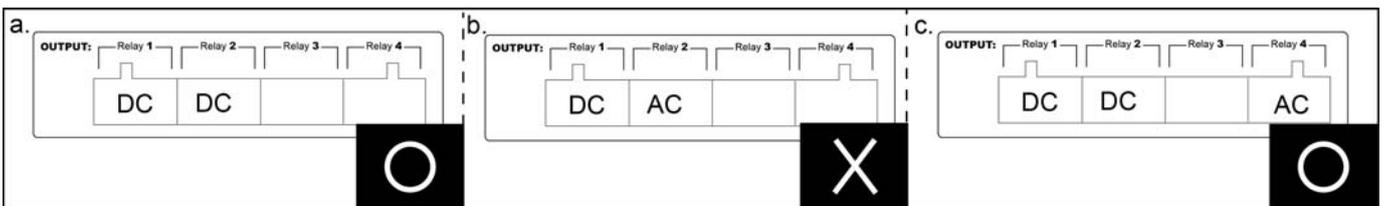Or, if you have two AVX951As, there are two ways of connection as shown below

The distance between each device can be up to 100M

Step3: Connect a diversity of external alarm devices to AVX951A

4 inputs and 4 outputs are provided for external devices connection. You can configure alarm devices according to your own situations.

Note: AVX951A allows the external alarm device to be connected to use both DC and AC power supplies, but a power supply should be the same as the neighboring sockets. Please see the examples in the picture below:

Note: When external devices are connected properly, please insulate the screws on the output terminal for security.

Step 4: Power on AVX951A

There are three ways, as listed below to connect a power supply, and choose one that is convenient for you. As you plug AVX951A in, the status LED indicators shows red.

a) Via DC Jack

b) Via dry contact

c) Via RJ-11 cable

Step 5: Power on your camera

When AVX951A and the camera are connected, the status LED indicators shows green.

Step 6: Access your camera on Internet Explorer

Click Home Automatic to enter the setting page and change trigger methods and Push message.

STATUS LED INDICATION

AVX951A is equipped with LED status indicators to provide status indication between AVX951A and an AVTECH camera with RS485 protocols. More details is shown as below:

Status	Description
Red on	AVX951A power on
Green on	AVX951A and camera are connected
Red Blinking	AVX951A and camera are disconnected*
Orange Blinking	AVX951A is in upgrade mode

* When AVX951A and camera are disconnected, the built-in alarm buzzer will sound for indication of the disconnection

SPECIFICATIONS*

		AVX951A
Input	Input	4 in
	Input Signal	Dry contact
Output	Relay Output	4 out
	Relay Status	NO / NC / COM
	Relay Capacitance	110V @ 5A / 220 @ 3A
RJ11 Port	RS485 / Power supply (12V)	
ID Switch	1~8	
LED Indications	Bicolor (Red / Green)	
Alarm Buzzer	YES	
RS485 Transmission Distance	100 M	
Temperature	Operating: 0°C ~ 40°C	
	Storage: 0°C ~ 70°C	
Power Supply	External adaptor DC 12V @ 1A	
Power Consumption (±10%)	3.6W	
Dimensions (mm)**	125(L) × 76(W) × 28(H)	

* The specifications are subject to change without notice. ** Dimensional Tolerance: ± 5mm.