

**Dear Customer!**

**By selecting this VC product you have chosen a professional device, which guarantees highest possible quality and reliability.**

**Please read the following instructions carefully before commissioning the product in order to be able to take full advantage of all quality features regarding this product line.**

## Video switcher

**Art. no. 14306**



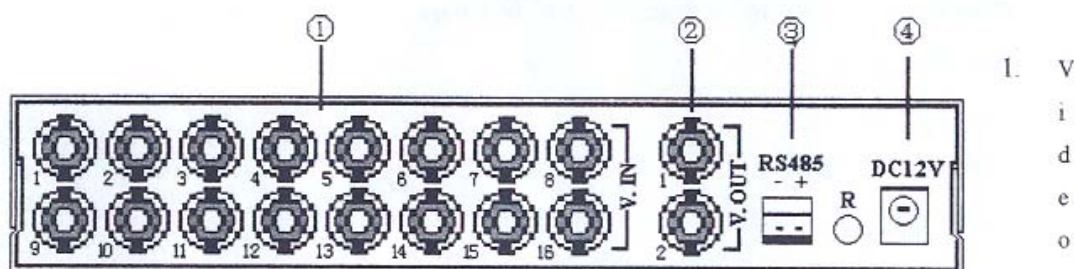
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## Chapter One: Brief Introduction

The VC-AKU-16/2-485 is a kind of video switching equipment and they are divided into 2 models: one model provides the operational panel and the other doesn't provide the operational panel. Maximum capacity: 16 video inputs, 2 video outputs.

The VC-AKU-16/2-485 provides the RS-485 communication port, to receives the instruction from the host of the system connected to it to switch and control. The VC-AKU-16/2-485 also can switch and control by the operational panel.

## Chapter Two: Layout of the Off-side Panel and Connection



Input [ V.IN]

Connect the video signal of each camera with the BNC connector on the off-side panel via coaxial cable.

### 2. Video Output [V.OUT]

Connect to the video signal recorder or the monitor.

### 3. Communication Port [RS485、R]

Connect the host of the system via communication cable, The LED of R indicates communication receive.

### 4. Power Input[DC12V]

Power Supply:DC9V-DC12V 500mA.

## Chapter Three: Operational Method

The VC-AKU-16/2-485 is divided into 2 models: one model provides the operational panel

and the other doesn't provide the operational panel. The VC-AKU-16/2-485 can communicate with the host of the system via RS485 serial communication interface, and be remotely operated and controlled. The operational method of the model with operational panel is as follows:

**1、Start The Machine:**

Provides Power. Now, the LED of "Monitor 1" light to indicator 1 channel selected, The LED of "Camera 1-16" light to indicator 1-16 camera selected.

**2、Select The Monitor**

Press the "MON" key, loop select the 1 channel (the LED of "Monitor 1" light) and 2 channel (the LED of "Monitor 2" light).

**3、Select The Camera**

Press the "Camera 1-16" key, select the 1-16 camera.

**4、Auto Switching**

Press the "AUTO" key.

**5、Insert Camera In Track Of Auto Switching**

Select the 1-16 camera, Press the "INSE" key.

**6、Skip Camera In Track Of Auto Switching**

Select the 1-16 camera, Press the "SKIP" key.

**7、Set the Switching Sequence Of the Channel (1-16s)**

Select the 1-16 camera, Press the "TIME" key.

## Chapter Four: Attention

1. All the operation and installation must be operated by the qualified maintenance man or system installer.
2. Forbid opening the machine without authorization! All the maintenance must be operated by the qualified maintenance man.
3. Handle with care! Avoids heavy collision and vibration. Unsuitable administration and storage will cause the damage of the equipment.
4. Don't leave it in humid air and start the machine. If the equipment is affected with damp, close the power supply immediately and notice the specific maintenance man. The damp



will damage the equipment and cause an electric shock.

5. Don't use the strong cleaning dose to clean the equipment. Please clean the equipment with the dry cloth.
6. Don't start the machine under the condition of super thermal, super humidity and exceeding the nominal power.

Please use the equipment under the condition as follows:

- ◆ Temperature: 0°C TO +45°C      Humidity: < 90% (non condensing)
- ◆ Input voltage: DC9V-DC12V ( $\pm 10\%$ )

## **Chapter Five: Common Trouble Recovery**

Most of trouble you meet during the use of the VC-AKU-16/2-485 Audio/Video SWITCHER may be relevant to the unsuitable hardware installation. Please refer to the following article before maintenance.

### **1. Problem during starting machine**

Trouble: The VC-AKU-16/2-485 can't connect the power

- 1) Check the connection of the power cable with the power socket.
- 2) Check the power equipment.

### **2. Problem During Operating**

Trouble: Image of the camera can't be displayed on the designated monitor

- 1) If the image of the camera can't be displayed on random monitor, check the camera and the connection of the camera with the VIDEO SWITCHER.
- 2) Check whether the monitor is wrong.

Trouble: Image of the designated monitor can't switch

- 1) Check whether the monitor is on the switching mode.
- 2) Set the switching time again.
- 3) Check whether the images of the monitor are all skipped.

Trouble: No response with manual switch

Check whether the monitor has been selected.

For more information, Please contact the supplier when you meet other  
Trouble

## **Chapter Six: Technical Specification**

1. Power Supply: DC9V-DC12V( $\pm 10\%$ )
2. Power Consumption: <20W
3. Video Input Amplitude: 1Vp-p(75 $\Omega$  load, unbalanced)
4. Video Output Amplitude: 1Vp-p(75 $\Omega$  load, unbalanced)
5. Video Signal-to-Noise Ratio: 50db (weighted)
6. Video Isolation: 50db (weighted)
7. Video Bandwidth (-3db): 12MHZ
8. Communication Mode: RS485 half-duplex and bi-directional bus 9600bit/s
9. Temperature: 0°C to 45°C
10. Humidity: <90%(non condensing)
11. Dimensions: 206×135×44mm
12. Weight: 2.0Kg



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