

VISSONIC V2 VIS-CATCA Camera Auto Tracking Controller User Manual

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V2 VIS-CATCA Camera Auto Tracking Controller

VIS-CATC-A Camera Auto Tracking Controller User Manual

Product Information

The VIS-CATC-A Camera Auto Tracking Controller is a device designed to control the auto-tracking functionality of cameras. It provides users with the ability to track subjects automatically, ensuring smooth and accurate camera movements.

Important Note:

- This product may cause radio interference in the living environment. If interference occurs, users should take feasible measures to mitigate it.

Product Usage Instructions

Safety Instructions

For your safe and correct use of the equipment, please observe the following safety instructions:

- Do not open the machine cover to avoid electrical shock. Contact qualified service personnel for assistance.

General Information Instructions

This section provides information on factors that may lead to unsuccessful operation or setup, as well as relevant information to pay attention to.

Matters Needing Attention in Discarding Product

When discarding the product, please follow these guidelines:

- Do not put the product into regular garbage. Process it as industrial waste or according to local environmental

protection regulations.

Attention in the Wiring

Before performing any wiring operations, ensure that all external power sources are disconnected to avoid electric shock or equipment damage.

Preface

The VIS-CATC-A Camera Auto Tracking Controller user manual provides information on the use, performance parameters, and troubleshooting of the product.

If there are any changes to the technical parameters and system usage, the manufacturer will update the manual accordingly. Please refer to the latest version of the user manual.

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The meaning of symbols

Safety instructions

For your safe and correct use of equipments, we use a lot of symbols on the equipments and in the manuals, demonstrating the risk of body hurt or possible damage to property for the user or others. Indications and their meanings are as follow. Please make sure to correctly understand these instructions before reading the manual.

General information instructions

Important note

Warning

In order to ensure the reliable performance of the equipment and the safety of the user, please observe the following matters during the process of installation, use and maintenance:

The matters needing attention of installation

- Please do not use this product in the following places: the place of dust, soot and electric conductivity dust, corrosive gas, combustible gas; the place exposed to high temperature, condensation, wind and rain; the occasion of vibration and impact. Electric shock, fire, wrong operation can lead to damage and deterioration to the product, either;
- In processing the screw holes and wiring, make sure that metal scraps and wire head will not fall into the shaft of controller, as it could cause a fire, fault, or incorrect operation;
- When the installation work is over, it should be assured there is nothing on the ventilated face, including packaging items like dust paper. Otherwise, this may cause a fire, fault, incorrect operation for the cooling is

not free;

- Should avoid wiring and inserting cable plug in charged state, otherwise it is easy to cause the shock, or electrical damage;
- The installation and wiring should be strong and reliable, contact undesirable may lead to false action; ♦ For a serious interference in applications, should choose shield cable as the high frequency signal input or output cable, so as to improve the anti-jamming ability of the system.

Attention in the wiring

- Only after cutting down all external power source, can install, wiring operation begin, or it may cause electric shock or equipment damage;
- This product grounds by the grounding wires. To avoid electric shocks, grounding wires and the earth must be linked together. Before the connection of input or output terminal, please make sure this product is correctly grounded;
- Immediately remove all other things after the wiring installation. Please cover the terminals of the products cover before electrification so as to avoid cause electric shock.

Matters needing attention during operation and maintenance

- Please do not touch terminals in a current state, or it may cause a shock, incorrect operation;
- Please do cleaning and terminal tighten work after turning off the power supply. These operations can lead to electric shock in a current state;
- Please do the connection or dismantle work of the communication signal cable, the expansion module cable or control unit cable after turning off the power supply, or it may cause damage to the equipment, incorrect operation;
- Please do not dismantle the equipment, avoid damaging the internal electrical component;
- Should be sure to read the manual, fully confirm the safety, only after that can do program changes, commissioning, start and stop operation.

Matters needing attention in discarding product

- Electrolytic explosion: the burning of electrolytic capacitor on circuit boards may lead to explosion;
- Please collect and process according to the classification, do not put into life garbage;
- Please process it as industrial waste, or according to the local environmental protection regulations.

Preface

This manual mainly describes the use, performance parameters and troubleshooting of VIS CATC A camera auto tracking controller.

If the technical parameters and system usage in this manual are changed, the manufacturer will update the version of the manual. Please use the latest user manual.

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1.Function

VIS

CATC A camera auto tracking controller has 4 channels of high definition SDI input, 2 channels of high definition HDMI input, 2 channels of high definition HDMI output, supports buttons, RS232 control, Ethernet control, web page control , etc., and can realize camera tracking, seamless switching, Screen freezing, audio and video scale conversion functions.

Specifications

The Specification of VIS CATC A are as follows:

- Video input port: 4 channel SDI HD interface; (SDI supports 3G SDI and HD SDI; supports digital audio input)
- Video input port: 2 channel HDMI HD interface; (HDMI supports 1080P60Hz downward compatibility; supports digital audio input)
- Video input port 2 channel HDMI HD interface; (HDMI supports 1080P60Hz downward compatibility; supports digital audio output)
- It has a picture-freezing function, which can be set according to the rotation and focusing time of different cameras.
- Compatible with VISSONIC series conference system, support camera tracking function.
- Video signal input to output seamless switching, no black screen, tearing.
- Supports quick configuration of video signal switching through the web GUI.
- Power consumption 12W
- Power supply AC 100 240V 50 60 Hz
- Temperature/Humidity

Storage:

40 to +158 °F (40 to +70 °C)/10% to 90%, non condensing;

Operating: +32 to +1

22 °F (0 to 50 °C)/10% to 90%, non condensing.

- Installation 19 inch rack cabinet Installation, 1U
- Dimensions L × W × H 483 × 260 × 43.6 mm
- Weight 3 kg
- Color black

Front and rear panel description

Figure 3 VIS

CATC A front and rear panel

The front panel of camera auto tracking controller includes:

1. Power switch turn the power of the camera tracking controller on or off
2. Control button 1 6 button corresponds to 1 6 HDMI and SDI input channels, can switch any 1 HDMI or SDI input signal to HDMI output
3. Input signal indicator 1 6 indicator corresponds to 1 6 HDMI and SDI input channels
4. Input port support 2 channels of high definition HDMI and 4 channels of high definition SDI signal input
5. Output port : support 2 channels of high definition HDMI signal output
6. Control port RS 232 female, RS 232 male and RJ45 Ethernet is used to connect the full digital network DSP conference controller for video switching control of camera tracking or connect the computer for control
7. Power input port connect the camera tracking controller to the power sequencer or plug in with the power cable to supply power to the camera tracking controller
(HDMI and SDI input interface supports digital audio input, HDMI output interface supports digital audio output)

Installation

4.1 19 inch installation cabinet

The main unit can be installed in a 19 inch standard cabinet with standard mounting screw holes.

Connection

Power supply

Connect the main unit to an external power outlet using the supplied power cord.

RS 232 control interface

Figure

1. RS232 female

It is used to connect the digital network DSP conference main unit for video switching control of camera tracking or connect the computer for control.

The COM port pins are defined as follows:

The COM port pins are defined as follows:

Serial port default settings

Baud rate: 9600bps, Parity: 8, Stop: 1

Serial control command table

Web Control

Network port default IP: 192.168.10.189. The steps of web page control are as follows:

1. Connect your PC to the Ethernet port of the camera tracking controller through a CAT5 cable.
2. Please set your computer to the following IP network segment.
3. Log in to the webpage, enter the IP address 192.168.10.189, and if you can log in to the screen in Figure 6, it means that the connection is successful. Click "Video" to control the signal switching of the camera tracking controller on this page.
 1. Signal switching screen as shown in the figure below

The above ① is the list of video input signals of the camera auto tracking controller. Note that the two output channels output the same signal.

- Modify camera auto tracking controller IP
 1. Click "Setting" to enter the following screen
 2. In the above ②, you can customize and modify the network IP. After completing the modification, restart the camera auto tracking controller.

Version query: Click "About" to enter the following screen, and check the version information at ③

System connection diagram

Camera RS232 cascade control line connection method

PIN1.....DTR;
P IN2.....DSR; PIN3.....TXD; PIN4.....GND; PIN5.....RXD;
PIN6.....GND ; PIN7.....IROUT; PIN8.....NC


Conference Controller Camera Tracking Settings
Enter the menu 'CAMERA' to set the parameters of the camera tracking.

Table 7.2 “CAMERA” menu list of VISSONIC conference controller

The following example shows how to set two cameras when the protocol VISCA,SAMSUNG/PELCO D, or CUSTOM is used.

- 1. Connect the camera (or a third party central controller) to the lower COM port of the CONTROL interface on the conference controller.
 - 1. Cameras using the VISCA protocol.
- 2. Connect the RS232 port of the camera tracking controller to the upper COM port of the CONTROL interface on the conference controller.
 - 1. Connect to the VIS CATC A camera tracking controller through RS232.
- 3. If the CUSTOM protocol is used (that is, a third party central controller is used), no longer need to set “Camera map” and “Start Set”.
- 4. If the VISCA or SAMSUNG/PELCO D protocol is used:
 - Enter the “Camera map” submenu, select a camera, set the camera address, and bind the address. For specific operations, please refer to the parameter description in Table 7.2.
 - Enter the “Start Set” submenu, and then use the camera remote control, keyboard, or CLEACON software to set the tracking position for each camera one by one. For specific operations, please refer to the parameter description in Table 7.2.

Documents / Resources

	<p>VISSONIC V2 VIS-CATCA Camera Auto Tracking Controller [pdf] User Manual V2 VIS-CATCA Camera Auto Tracking Controller, V2 VIS-CATCA, Camera Auto Tracking Controller, Auto Tracking Controller, Tracking Controller</p>
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