



Telycam TLC-50TC Joystick Remote Control Keyboard User Manual

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Telycam

Telycam TLC-50TC Joystick Remote Control Keyboard



- Product Name: IP&Serial Joystick Remote Control Keyboard
- User Manual Version: V1.2
- Catalog Number: J.BC.0205.0157
- Product Usage Instructions

Security Guidance

Cautions

- Before using the product, please read this safety instruction carefully, operate strictly in accordance with the instruction manual, and keep this manual properly for future reference.
- The standard power supply voltage is DC 12V and the rated current is 1A. It is recommended to use the power adapter that comes with the product.
- Please place the power cable and control cable in a place where they will not be trampled on, and protect the cable, especially the connection part must be firm.
- Please use this product within the allowable temperature and humidity range. Operating temperature: -10~50°C, humidity: 80%.
- Do not spill liquids, especially corrosive liquids, on this product to prevent danger.
- Please don't put heavy pressure, violent vibration, and immersion during transportation, storage, and installation to avoid damaging the product.
- Please do not disassemble this product without permission. There are no parts inside the machine that can be repaired by the user.
- Please leave the work to qualified maintenance personnel.

Check Before Using

Packing List

Ensure that all the following items are included in the package

- [List of items]

The Wiring

Follow the provided wiring diagram (refer to section 5) to correctly connect the keyboard to the required devices.

Bottom Dialing Switch

Refer to the user manual for instructions on how to use the bottom dialing switch.

Keyboard Description

Refer to the user manual for a detailed description of the keyboard's features and functions.

Menu Setting

Operating Instructions

Refer to the user manual for step-by-step instructions on how to navigate and use the menu settings.

Menu options

Refer to the user manual for a list and description of available menu options.

Wiring diagram

Refer to the provided wiring diagram (located in section 5) for proper connection of the keyboard to other devices.

WEB Configuration

Refer to section 6 of the user manual for instructions on how to Perform WEB configuration for the keyboard.

Frequently Asked Questions

Refer to section 7 of the user manual for answers to commonly asked questions about the product.

Security Guidance

Cautions

- Before using the product, please read this safety instruction carefully, operate strictly in accordance with the instruction manual, and keep this manual properly for future reference.
- The standard power supply voltage is DC 12V and the rated current is 1A. It is recommended to use the power adapter that comes with the product.
- Please place the power cable and control cable in a place where they will not be trampled on, and protect the cable, especially the connection part must be firm.
- Please use this product within the allowable temperature and humidity range. Operating temperature: 10°C~50°C, humidity ≤ 80%.
- Do not spill liquids, especially corrosive liquids, on this product to prevent danger.
- Please don't put heavy pressure, violent vibration, and immersion during transportation, storage, and installation to avoid damaging the product.
- Please do not disassemble this product without permission, there are no parts inside the machine that can be repaired by the user, please leave the work to qualified maintenance personnel.

Power supply polarity



Notice

- Please refer to the actual product, the user manual is for reference only.
- Please contact our Customer Service Department for the latest procedures and additional documentation.
- In case of doubt or dispute in the user manual, the final interpretation of the company shall prevail.

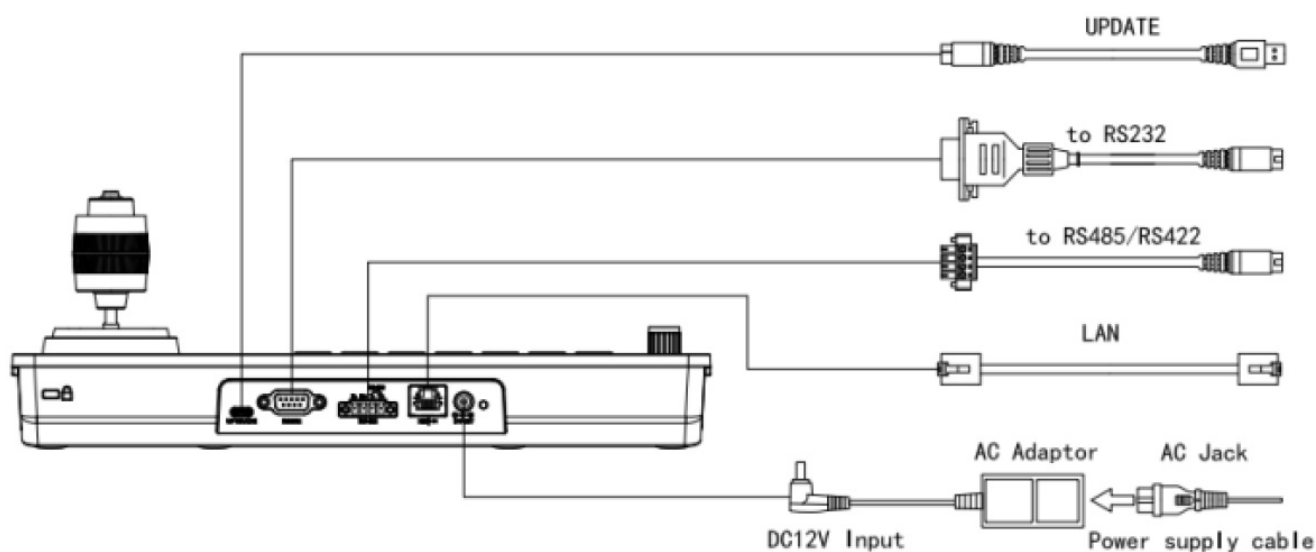
Check Before Using

Packing List

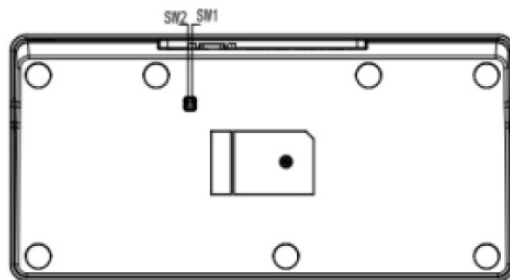
When opening the package, please check and confirm all the accessories that should be provided.

- Control keyboard 1PCS
- Power Adapter 1PCS
- Power Cord 1PCS
- RS232 Cord 1PCS
- User Manual 1PCS
- Certificate of Conformity 1PCS
- Warranty Card 1PCS
- Quick Guide 1PCS

The Wiring



Bottom Dialing Switch



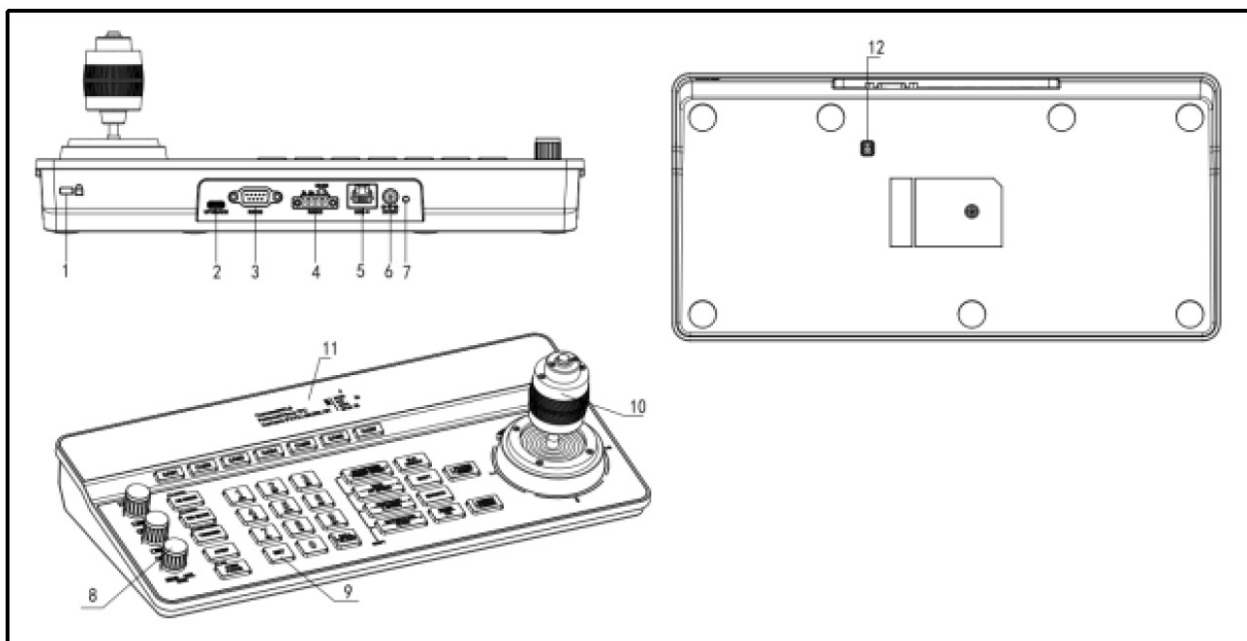
| Bottom dial control | | | |
|---------------------------------------|------|------|---------------------|
| Mode | SW-1 | SW-2 | Description |
| 1 | * | OFF | ARM Upgrade Mode |
| 2 | * | ON | Normal Working Mode |
| SW-1 is reserved, no function defined | | | |

Keyboard Description

Functional Features

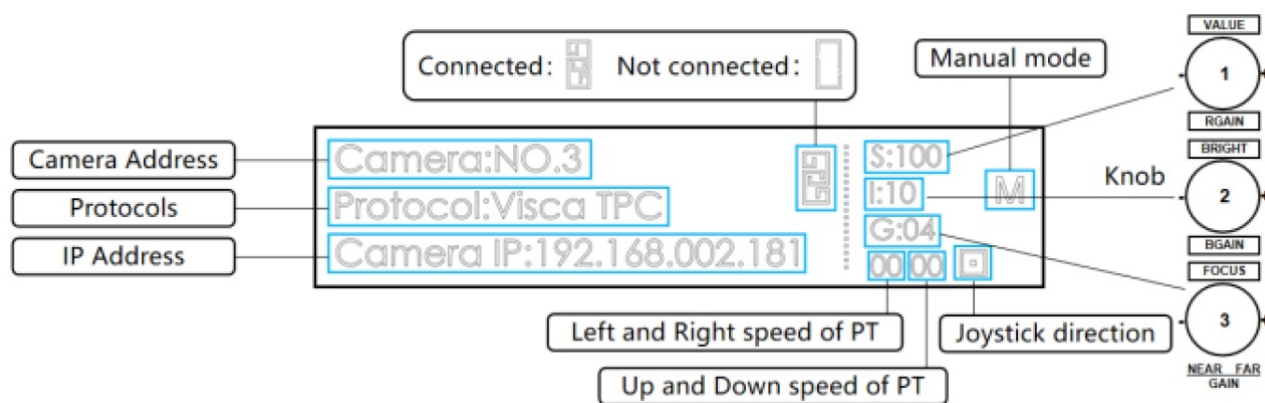
- Support network interface, RS232 interface, RS422 interface, and RS485 interface for control.
- Supports VISCA Serial, Pelco P, Pelco D, VISCA over IP, VISCA TCP, VISCA UDP, ONVIF, and NDI protocols for control. (NDI protocol is optional.)
- With seven camera shortcut control buttons, to improve the speed of multiple cameras control switching, convenient and fast.
- Support setting different protocols to control multiple cameras with different protocols.
- Support one keyboard to control multiple cameras, and also support multiple keyboards to control a camera through the network interface.
- Adapts a four-dimensional joystick to enable the control of the video camera PTZ movement smoothly and flexibly.
- Support to set different levels of operation permission via the OSD menu.
- Support button keys backlight, enable users to choose automatic backlight in low light or dark environments.
- Support set, call, and clear preset.
- Support camera PT speed and zoom speed adjustment, while supporting preset position PT speed and zoom speed adjustment.
- Support daisy chain function. (Max 7 cameras are available)
- Support camera OSD menu setting.
- Supports standard POE (Power Over Ethe).
- Support 10M, 100M adaptive network RJ45 connection.
- Support both Chinese and English menu interface

Technical Specifications

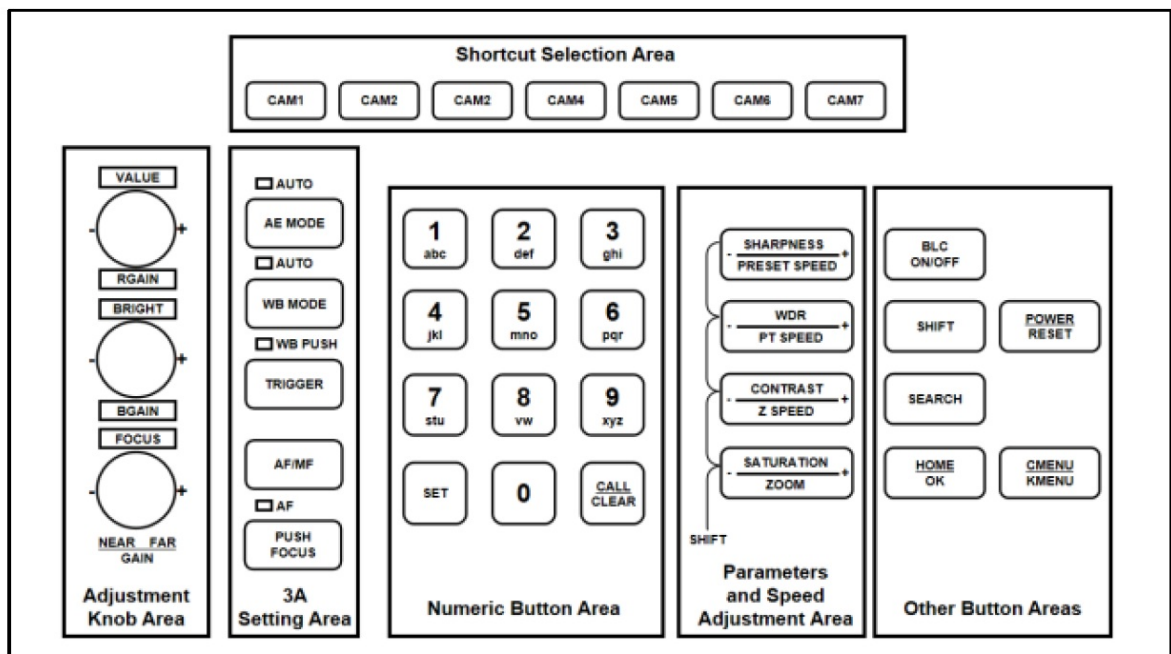


1. Lock hole
2. Network interface
3. Button
4. Upgrade interface
5. Power interface
6. Joystick
7. RS232 interface
8. Indicator light
9. Display screen
10. RS485 interface
11. Adjusting knob
12. Dial switch

Display Screen Content



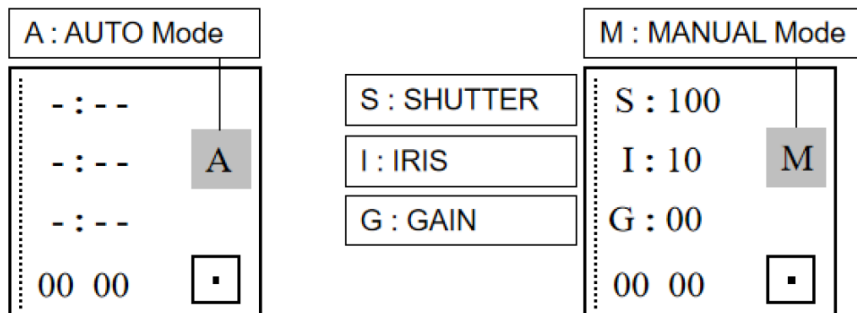
Button Function



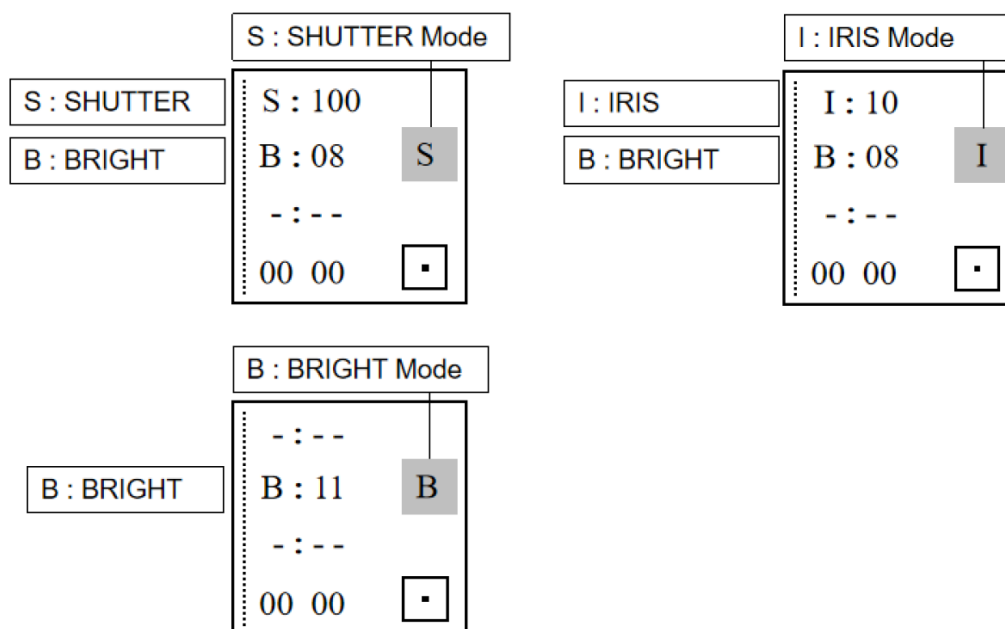
Shortcut Selection Area

CAM1 ~ CAM7 Select the corresponding camera.

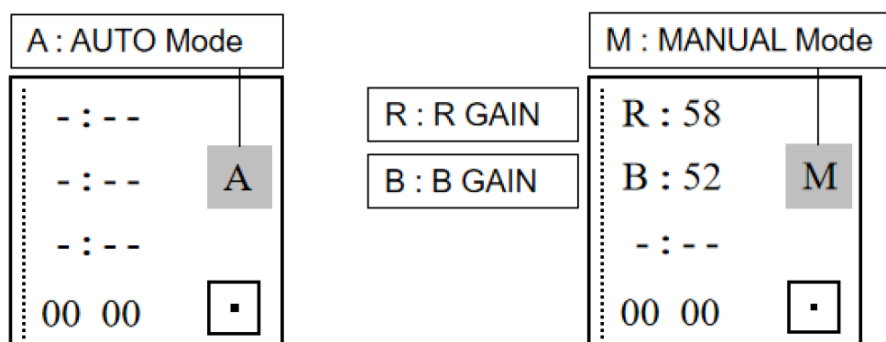
Adjustment Knob Area, 3A Setting Area AE MODE There is the word "AUTO" next to the button AE MODE. When the "AUTO" light is on, automatic exposure mode is triggered; when the "AUTO" light is OFF, the other modes manual exposure, shutter priority, iris priority, and bright priority can be selected, and at this time, the three knobs on the left side of the keyboard can adjust the shutter, iris, gain, bright and other parameters.



Keyboard Description



WB MODE There is the word “AUTO” next to the button WB MODE. when the “AUTO” light is on, it is AUTO and ATW mode; when the “AUTO” light is off, the manual, indoor and outdoor, Sodium lamps, and fluorescent lamps modes can be selected, then the camera red gain and blue gain can be adjusted through the first two knobs on the left side of the keyboard



TRIGGER

In Onepush mode (the “WB PUSH” light is on), the automatic white balance is triggered once.

AF/MF There is the word “AF” next to the button AF/MF. When the “AF” light is on, it is the automatic focus mode; when the “AF” light is off, it is the manual focus mode, which can be adjusted by the third knob on the left side of the keyboard.

Note: When the exposure mode and focus mode are both manual, the 3rd knob gives priority to adjusting the focus.

PUSH FOCUS Triggers autofocus once.

Numeric Button Area

0~9 + SET Set the presets.

0~9 + Short press CALL/CLEAR Call the presets.

0~9 + Long press CALL/CLEAR Clear the Presets.

Note: Up to 128 presets can be set and recalled.

Parameters and Speed Adjustment Area

SHARPNESS PRESET SPEED Adjust the sharpness. / Adjust the preset speed.

WDR PT SPEED Adjust the WDR. / Adjust the camera PT speed.

CONTRAST Z SPEED Adjust the contrast. / Adjust the camera zoom speed.
SATURATION ZOOM Adjust the saturation. / Adjust the camera lens zoom.

Note: Press the SHIFT button to switch between parameter setting mode and speed setting mode, and the display will show “S”. When “S” is shown on the display, these 4 buttons can be used for parameter setting. When the display does not show “S”, these 4 keys can be used for speed setting and zooming.



Other Button Areas

- BLC ON/OFF Backlight compensation on / off.
- SHIFT Switch between parameter adjustment mode and speed adjustment mode.
- SEARCH Search for IP addresses.
- HOME/OK Return to the original position of the camera.
- POWER/RESET Short press to control the camera power, and long press to reset the camera.
- CMENU/KMENU Short press to open the camera menu, and long press to open the keyboard menu.

Joystick Control

- Up Down Left Right Offset the joystick to control the camera in 4 directions.
- Zoom Turn the joystick clockwise to zoom in.
- Zoom Turn the joystick counterclockwise to zoom out.
- Lock When controlling the camera, press the “lock” button, The camera keeps rotating in the previous control direction until the set lock time is exceeded or the camera rotates to the limit position.

Menu Setting

Operating Instructions: 1. Long press CMENU/KMENU to open the keyboard menu; Adjust the joystick Up and Down to view the menu options; Right to enter the next option; Left to return to the previous option, short press CMENU/KMENU can also return to the previous option; numeric keys 0~9 can set the corresponding parameters in some options. In the keyboard menu, you need to set the corresponding protocol and address in order to control the camera properly.

Menu options

| | | |
|----------------|------------|----------------------------|
| System setting | Language | Chinese/English |
| | Brightness | 1~15 |
| | BackLight | AUTO/ON/OFF |
| | Screen Prt | 10s~180s |
| | DHCP | OFF/ON |
| | Locol IP | 192.168.001.180 Can be set |
| | Mask | 255.255.255.000 |
| | Gateway | 192.168.001.001 |

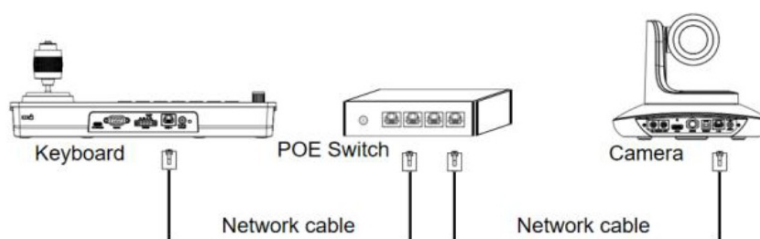
| | | |
|-----------------------|--------------------------|---|
| Camera setting | Camera | The keyboard can be set with 7 addresses: CAM1~CAM7 |
| | Protocol | VISCA Serial, Pelco-P, Pelco-D, VISCA over IP, VISCA TCP, VISCA UDP, ONVIF, NDI(optional) |
| | IP Addr / Address | Set the camera IP address or camera address. |
| | Port / Baundrate | Set the port or baud rate. Default port numbers for each IP protocol: ONVIF: 8000, NDI: 5961, VISCA: 52381 |
| | Username | Username setting, default: admin |
| | Password | Password setting, default: admin |

| | | |
|--------------------|----------------------|---|
| PTZ setting | Pan Reverse | The left and right direction of the keyboard control can be switched. |
| | Tilt Reverse | The up and down direction of the keyboard control can be switched. |
| | Preset PT Spd | Set preset PT speed: 5~24 |
| | Preset Z Spd | Set preset Zoom speed: 1~7 |
| | Foucs Speed | Set focus sensitivity: 0~7 |
| | Lock Time | Set of lock time: 2~20(s) |

| | | |
|-------------------------|----------------|--|
| Password setting | New PSD | Set a new password to access the keyboard menu |
| | Confirm | Reconfirm the new password to access the keyboard menu |
| | Enable | Password switch to access the keyboard menu |
| | Version | Keyboard program version number and update date |

Connection in network mode

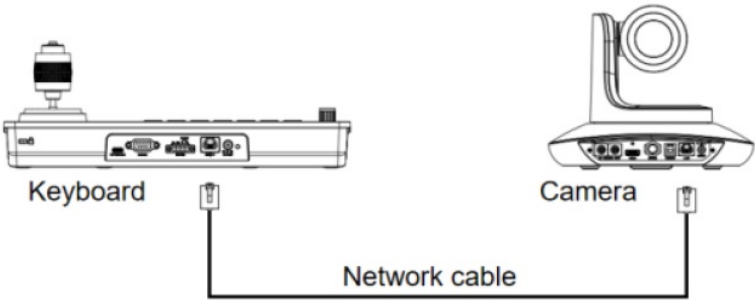
The keyboard is on the same LAN as the camera: The keyboard connects to the switch through the network cable, and the camera connects to the switch through the network cable. In the same LAN, set the same network segment, and set the corresponding protocol, IP address, and port number, you can control the camera through the keyboard. The keyboard is directly connected to the camera: The keyboard is connected to the camera through the network cable, set the same network segment, and set the corresponding protocol, IP address, and port number, you can control the camera through the keyboard.



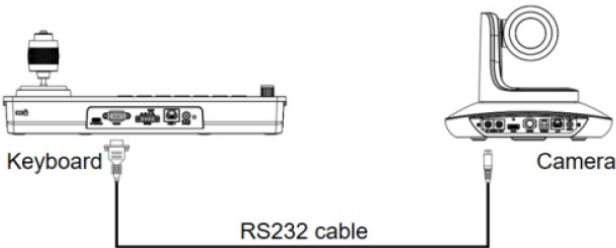
Connection in RS232 mode

The keyboard connects to the camera via an RS232 cable, set the corresponding protocol, address, and baud rate, and you can control the camera via the keyboard. Line Sequence Using the RS232 connection, pin 1 RXD of

the keypad is connected to the camera input interface TXD, pin 2 TXD of the keypad is connected to the camera RXD, and pin 3 of the keypad is connected to the camera GND. (It is also possible to use the standard RS232 interface of the control keypad to connect to the camera.

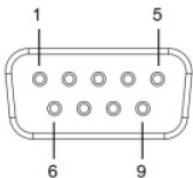


Connection in RS422 mode



The keyboard connects to the camera via an RS422 cable, set the corresponding protocol, address and baud rate, and you can control the camera via the keyboard Line Sequence Using the RS422 bus connection, the keyboard pin 1 TXD + connects to the camera's RXD-, the keyboard pin 2 TXD - connects to the camera's RXD +, the keyboard pin 3 RXD + connects to the camera's TXD -, the keyboard pin 4 RXD - connects to the camera's TXD+.

Note: Some cameras do not support RS422 control.

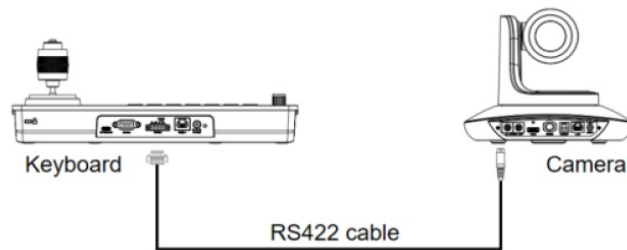


| Keyboard | Camera |
|----------|--------|
| RXD | TXD |
| TXD | RXD |
| GND | GND |

| DB9 Male (Pin type) | Pin Number | 2 | 3 | 5 | 1,4,6 | 7,8 |
|---------------------|-------------------|-----|-----|-----|---------------------|---------------------|
| | Signal Definition | RXD | TXD | GND | Internal connection | Internal connection |

Connection in RS485 mode

The keyboard connects to the camera via an RS485 cable, sets the corresponding protocol, address, and baud rate, and you can control the camera via the keyboard Line Sequence Using the RS485 bus connection, the keyboard pin 1 TXD + is connected to the camera RXD-, and the keyboard pin 2 TXD- is connected to the camera RXD +.

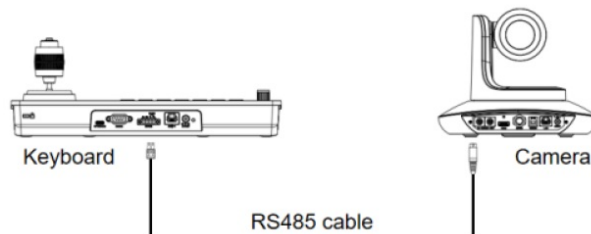


Cascade in RS232, RS422, RS485 mode

The keyboard connects the RS232-IN port of camera No. 1 through RS232, RS422, RS485 lines, and then connects the RS232-IN port of camera No. 2 through the RS232-OUT port of camera No. 1 with a cascade line, and finally sets the corresponding protocol, address, and baud rate on the keyboard to control camera No. 1 or camera No. 2 through the keyboard. Line Sequence Using the RS232 cascade connection, the output of the keyboard is connected to the input of camera No. 1, the output of camera No. 1 is connected to the input of camera No. 2, and so on. The connection method using RS422 and RS485 cascade is roughly the same as that of RS232

| Keyboard | | Camera |
|----------|---------|--------|
| TXD+ | ←-----→ | RXD+ |
| TXD- | ←-----→ | RXD- |
| RXD+ | ←-----→ | TXD+ |
| RXD- | ←-----→ | TXD- |

WEB Configuration



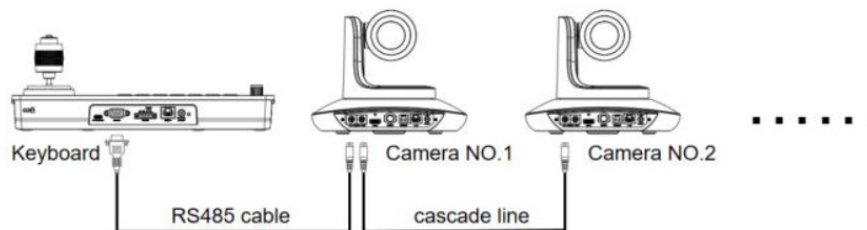
Login WEB

The keyboard and computer are connected to the same LAN, Open the browser, enter the IP address (default IP address is 192.168.1.188), enter the login interface, you can choose the language (Chinese or English), enter the username and password to log in, as shown on the right.

| Keyboard | | Camera |
|----------|---------|--------|
| TXD+ | ←-----→ | RXD+ |
| TXD- | ←-----→ | RXD- |

(Default username: admin Default password: admin)

After successful login, you will be taken directly to the system configuration screen, as shown below.



Device Control

Device Search

Search for IP addresses and protocols of cameras on the same LAN and add them to the keyboard configuration; you can also add camera IP addresses and protocols manually.

| Keyboard | Camera NO.1 | Camera NO.2 | Camera NO.3 |
|----------|-------------|-------------|-------------|
| RXD | TXD IN | RXD OUT | |
| TXD | RXD IN | TXD OUT | |
| | TXD OUT | RXD IN | |
| | RXD OUT | TXD IN | |
| GND | GND | GND | |

Device Configuration

Modify and delete the IP address, protocol, and port number of the already configured camera.

Keyboard Control

☒
☐
☐

Ethernet Parameter

System Configuration

Device Control

Ethernet

Firmware Upgrade

Reset Options

Account

Device Search

All
Search
Manually Add

| Index | IP | Protocol | Actions |
|-------|----|----------|---------|
|-------|----|----------|---------|

Device Configuration

| ID | IP | Protocol | Actions |
|----|----|----------|---------|
|----|----|----------|---------|

Set the network parameters of the keyboard, including DHCP switch, IP Address, Netmask, Gateway, DNS, and HTTP Port.

Device Search

All

Search

Manually Add

| Index | IP | Protocol | Actions |
|-------|---------------|----------|---------|
| 0 | 192.168.2.101 | Onvif | Add |

Device Configuration

| | | | |
|----|---------------|-----------|------------|
| ID | IP | Protocol | Actions |
| 1 | 192.168.1.128 | VISCA TCP | Config Del |

Firmware Upgrade

Ethernet

| | |
|------------|--|
| DHCP | <input type="checkbox"/> |
| IP Address | <input type="text" value="192.168.1.180"/> |
| Netmask | <input type="text" value="255.255.255.0"/> |
| Gateway | <input type="text" value="192.168.1.1"/> |
| DNS | <input type="text" value="192.168.1.1"/> |
| HTTP Port | <input type="text" value="80"/> |

Save

Check the keyboard device name and version information, and also, you can upload files to upgrade the keyboard system. Please do not power off during the upgrade process.

Firmware Upgrade

| | |
|--------------------|--|
| Control Version | 1.0.0.1 |
| Device Name | TV3308 Camera |
| Bootloader Version | V1.0.0 |
| System Version | V1.0.0 |
| APP version | V263 |
| Upgrade | <input type="button" value="select File"/> |

Reset Options

Reset Options

Reset/Reboot

Reset all camera setting to their default values and reboot

Reboot

Perform a complete reset or reboot of the keyboard.
Reset/Reboot: Resets all parameters and reboots the device.
Reboot: Reboot the device.

Account

Account Settings

| | |
|------------------|--------------------------|
| Account | <input type="text"/> |
| Password | <input type="password"/> |
| Confirm Password | <input type="password"/> |

Save



Set the login and password of the keyboard. First, enter the Account number that needs to be set, then enter the password that needs to be set twice (Password, Confirm Password), and then click “Save”. After setting the account number and password, please remember the account number and password, otherwise, you will not be able to log in to the WEB side interface

Frequently Asked Questions

| Frequently Asked Questions | |
|---|---|
| Adverse Description | Solution Ideas |
| The keyboard cannot control the camera in network mode. | Check if the network cable is connected properly. |
| | Check whether the camera supports the set protocol. |
| | Check if the keyboard screen shows connected. The display of “” indicates a successful connection. |
| | Check whether the IP address, protocol and port number set on the keyboard are consistent with those of the camera. |
| | Check if the keyboard and the camera are on the same LAN. |
| | Check whether the keyboard’s local IP address and the camera’s IP address are in the same network segment. |
| The keyboard cannot control the camera in RS232, RS422, RS485 mode. | Check whether the RS232, RS422, RS485 cables are good and whether the interface is loose. |
| | Check whether T+, T-, R+, R- of RS422 are connected wrongly; check whether T+, T- of RS485 are connected backwards. |

| | |
|--|---|
| | <p>Check that the address, protocol and baud rate set on the keyboard</p> <p>are consistent with those of the camera.</p> |
| Some cameras can be controlled, some cameras cannot be controlled. | Check if the wiring of each part is normal. |
| | Check that the parameters of each address code of the keyboard are consistent with those of the respective camera. |
| When controlled with the keyboard, multiple cameras are controlled together. | Check that the protocols and addresses of the cameras being controlled together are consistent. |

Documents / Resources

| | |
|---|---|
|  <p>IP&Serial Joystick Remote Control Keyboard</p> <p>User Manual V1.2</p> <p>J-81-1200-0107</p> | <p>Telycam TLC-50TC Joystick Remote Control Keyboard [pdf] User Manual TLC-50TC, TLC-50TC Joystick Remote Control Keyboard, Joystick Remote Control Keyboard, Remote Control Keyboard, Control Keyboard, Keyboard</p> |
|  <p>TLC-50TC</p> <p>IP&Serial Joystick Remote Control Keyboard</p> <p>User Manual V1.2</p> <p>J-81-1200-0108</p> | <p>Telycam TLC-50TC Joystick Remote Control Keyboard [pdf] User Manual TLC-50TC, TLC-50TC Joystick Remote Control Keyboard, Joystick Remote Control Keyboard, Remote Control Keyboard, Control Keyboard, Keyboard</p> |

References

- [Telycam](#)