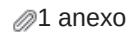


03/06/2019

Zimbra

Zimbra**helder.silva@tre-rn.jus.br****RES: RES: Esclarecimentos - TRE-RN - Pregão Eletrônico 07/2019 - itens 2 e 4****De :** Maria Fernanda Madi Wenzel
<maria@sealtelecom.com.br>

Seg, 03 de jun de 2019 14:58



1 anexo

Assunto : RES: RES: Esclarecimentos - TRE-RN - Pregão
Eletrônico 07/2019 - itens 2 e 4**Para :** Helder Jean Brito da Silva <helder.silva@tre-rn.jus.br>**Cc :** Pedro Sancho de Medeiros <pedro.sancho@tre-
rn.jus.br>, Nelson Mitsuru Morishita
<morishita@sealtelecom.com.br>, Marcelo de
Medeiros Borja Gomes <marcelo.borja@tre-rn.jus.br>,
Barbara Gomes de Santana Araujo
<barbara@sealtelecom.com.br>Prezado Senhores,
Boa tarde!

Em resposta ao pedido de esclarecimento recebido no dia 31 de maio de 2019, referente aos catálogos e manuais técnicos mencionados em nossa proposta, seguem listados abaixo os documentos anexados:

- Resposta de Esclarecimentos – PE 007/2019 TER/RN
- Item 01: Manual em forma de link (devido ao arquivo ser muito extenso)
- Item 02: Manual
- Item 03: Manual
- Item 04: Datasheet assinado pelo fabricante

Peço a gentileza de confirmar o recebimento deste e-mail.

Atenciosamente,

Maria Fernanda Madi Wenzel
Licitações – Região Norte-Nordeste
+55 (11) 3728-4440
maria@sealtelecom.com.br
www.sealtelecom.comAntes de imprimir pense em seu compromisso com o Meio Ambiente.
Before printing, please think about your responsibility and commitment
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-----Mensagem original-----

De: Helder Jean Brito da Silva [mailto:helder.silva@tre-rn.jus.br]
Enviada em: sexta-feira, 31 de maio de 2019 15:09
Para: Maria Fernanda Madi Wenzel <maria@sealtelecom.com.br>
Cc: Pedro Sancho de Medeiros <pedro.sancho@tre-rn.jus.br>; Nelson
Mitsuru Morishita <morishita@sealtelecom.com.br>; Marcelo de Medeiros
Borja Gomes <marcelo.borja@tre-rn.jus.br>
Assunto: Re: RES: Esclarecimentos - TRE-RN - Pregão Eletrônico 07/2019

03/06/2019

Zimbra

- itens 2 e 4

Prezados,

Aguardaremos a resposta com os dados na segunda-feira, então.

Boa tarde!

--
Helder Jean Brito da Silva
Seção de Atendimento Remoto - SAR
CIT / STI / TRE-RN
(84) 3654-5520

----- Mensagem original -----

De: "maria" <maria@sealtelecom.com.br>
Para: "Helder Jean Brito da Silva" <helder.silva@tre-rn.jus.br>
Cc: "Pedro Sancho de Medeiros" <pedro.sancho@tre-rn.jus.br>, "Nelson
Mitsuru Morishita" <morishita@sealtelecom.com.br>
Enviadas: Sexta-feira, 31 de maio de 2019 15:07:04
Assunto: RES: Esclarecimentos - TRE-RN - Pregão Eletrônico 07/2019 -
itens 2 e 4

Prezados Senhores,

Estamos em contato com o fabricante para esclarecimentos.

Portanto, peço a gentileza de informar se podemos enviar a resposta da
diligência na segunda feira?

Desde já agradeço e fico no aguardo.

Maria Fernanda Madi Wenzel
Licitações – Região Norte-Nordeste
+55 (11) 3728-4440
maria@sealtelecom.com.br
www.sealtelecom.com

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-----Mensagem original-----

De: Maria Fernanda Madi Wenzel
Enviada em: sexta-feira, 31 de maio de 2019 14:29
Para: 'Helder Jean Brito da Silva' <helder.silva@tre-rn.jus.br>
Cc: Pedro Sancho de Medeiros <pedro.sancho@tre-rn.jus.br>; Nelson
Mitsuru Morishita <morishita@sealtelecom.com.br>
Assunto: RES: Esclarecimentos - TRE-RN - Pregão Eletrônico 07/2019 -
itens 2 e 4

Prezados Senhores,
Boa Tarde!

Estamos analisando com nosso setor técnico.

03/06/2019

Zimbra

Encaminharemos a resposta com a maior brevidade possível.

Atenciosamente,

Maria Fernanda Madi Wenzel
Licitações – Região Norte-Nordeste
+55 (11) 3728-4440
maria@sealtelecom.com.br
www.sealtelecom.com

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Before printing, please think about your responsibility and commitment
to our environment.

-----Mensagem original-----

De: Helder Jean Brito da Silva [mailto:helder.silva@tre-rn.jus.br]
Enviada em: sexta-feira, 31 de maio de 2019 14:06
Para: Maria Fernanda Madi Wenzel <maria@sealtelecom.com.br>
Cc: Pedro Sancho de Medeiros <pedro.sancho@tre-rn.jus.br>; Marcelo de
Medeiros Borja Gomes <marcelo.borja@tre-rn.jus.br>
Assunto: Esclarecimentos - TRE-RN - Pregão Eletrônico 07/2019 - itens
2 e 4

Boa tarde, Maria.

Recebemos os catálogos dos itens constantes da proposta da SEAL, e
estamos precisando de algumas informações a mais. Os catálogos dos
itens 2 e 4 não contém informações técnicas suficientes para checarmos
os requisitos do edital, como software de controle (do item 2) ou
velocidade do obturador, abertura da objetiva a 111mm, entre outras
características (do item 4).

Você teria como nos enviar também o manual técnico dos itens da
proposta?

No site do fabricante (Minrray, é o mesmo para ambos) não
conseguimos encontrar os manuais.

Obrigado!

Atenciosamente,

--
Helder Jean Brito da Silva
Seção de Atendimento Remoto - SAR
CIT / STI / TRE-RN
(84) 3654-5520

 **Diligência - Seal Telecom.zip**
6 MB

IP PTZ Camera Controller- KBD2000 User Manual

IP PTZ Camera Controller

KBD2000



0

Documento assinado digitalmente por:

Helder Jean Brito da Silva
03/06/2019 18:10:06

IP PTZ Camera Controller- KBD2000 User Manual

Attentions

The purpose of this user manual is to ensure that users can use the product correctly and avoid danger and damage in operation. Before using this product, please read this user manual carefully and keep it properly for future reference.

Precautions

1. What is the function of CAM NUM when add a network device?

CAM NUM will be associated and bound with the currently entered IP and port information.

It will quickly switch to the CAM NUM bound device when adding a device with CAM button.

2. How to enter English when set the user name, password and custom keys of F1/ F2.

For example: to enter letter C, simply press the number key “2” three times continuously in the input interface.

3. How to enter IP address?

The camera controller doesn't have “.” button; So please enter the IP address with four segments.

Take IP address 192.168.0.1 for example, it will automatically jump to next segment when finished input 192 and 168; while after input 0, you have to move the joystick rightward to switch to next segment input.

4. How to clear in input mode?

Move the joystick leftward to clear the input information.

5. The home page of each mode refers to the displayed page when controller initialization complete.

In IP VISCA and ONVIF Mode, if you see the prompts of "Visca!" and "Onvif!", the IP address displayed on the screen is local IP address of the controller. While the prompts of "Visca:" and "Onvif:" shown on the page, the IP address displayed on the screen belongs to the connected device.

IP PTZ Camera Controller- KBD2000 User Manual

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IP PTZ Camera Controller- KBD2000 User Manual

1. Product Overview

1.1 Product Features

Four control modes: Two IP control modes (IP VISCA & ONVIF); Two analog control modes (RS422 & RS232)

Three Control Protocols: VISCA, ONVIF and PELCO

1.2 Wiring Diagram

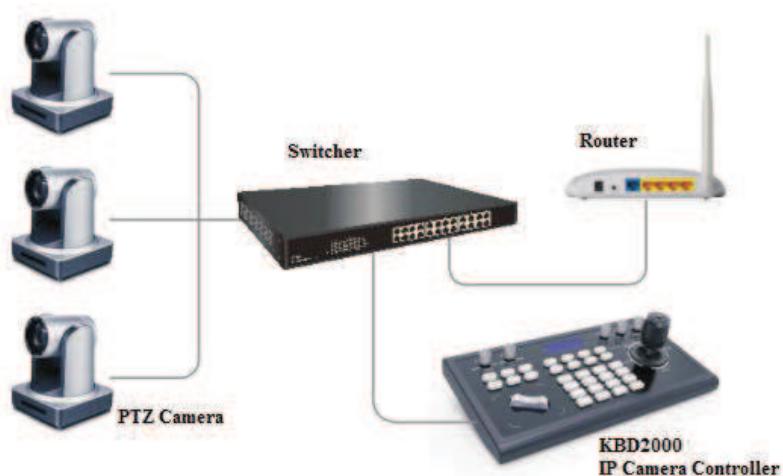
The controller and PTZ camera must be connected to the same LAN, and IP addresses must be at the same segment.

For example:

192.168.1.123 is at the same segment with 192.168.1.111

192.168.1.123 is not at the same segment with 192.168.0.125

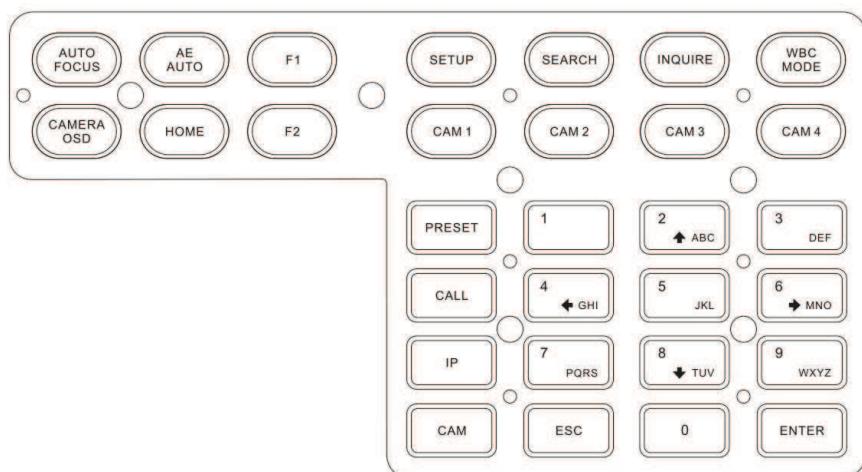
The default setting for IP controller is obtaining IP address dynamically.



IP PTZ Camera Controller- KBD2000 User Manual

1.3 Technical Specifications

| | |
|------------------------------|---|
| Ethernet | One Ethernet port |
| Joystick | Four-dimensional (up, down, left, right) joystick control and clock, Zoom Tele/Wide |
| Connection | Lead |
| Display | LCD |
| Prompt Tone | Button Sound Prompts Open/Off |
| Power supply | DC 12V1A±10% |
| Power Consumption | 0.6 W Max |
| Operating Temperature | 0°C-50°C |
| Storage Temperature | -20-70°C |
| Dimensions(mm) | 320*180*100 |

2. Function Description**2.1 Button Description**

IP PTZ Camera Controller- KBD2000 User Manual

【AUTO FOCUS】

Auto Focus button: Set the camera in auto focus mode with this button. It will light up when camera is in manual focus mode.

【AE AUTO】

Auto Aperture button: Set the camera in automatic aperture mode with this button. It will light up when camera is in manual aperture mode.

【CAMERA OSD】

Camera OSD button: call/Close the camera OSD

【HOME】

HOME button: The camera will back to home position if camera OSD is off. While when the camera OSD is called out, the home button is confirm function of camera OSD.

【F1】 ~ 【F2】

Custom function buttons: Custom functions in VISCA and IP VISCA modes.

【SETUP】

Controller local Settings button: Modify and view local settings.

【SEARCH】

Search button: Search for all available devices with ONVIF protocol in the LAN (only in ONVIF Mode)

【INQUIRE】

Inquire button: Check added devices

【WBC MODE】

Auto white balance button: Set the camera in auto white balance mode. It will light up when camera is in manual white balance mode.

【CAM1】 ~ 【CAM4】

Quickly switch device button: Quickly switch to CAM NUM 1-4 devices (ONVIF, IP VISCA), or to address code 1-4 devices (VISCA, PELCO)

【PRESET】

Short press to set presets; long press to delete presets setting.

It needs to work with the number keys and “enter” button, for setting or deleting presets.

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【CALL】

Call preset button: It needs to work with the number keys and ENTER button.

【IP】

Manually add network device button:

Manually add network devices (only in ONVIF and IP VISCA modes)

【CAM】

In IP VISCA and ONVIF modes, it will quickly switch to the CAM NUM bound device when adding a device via CAM.

In VISCA and PELCO modes, it will switch to the address code when entering a certain address.

It needs to work with the number keys and “enter” button.

【1】~【9】

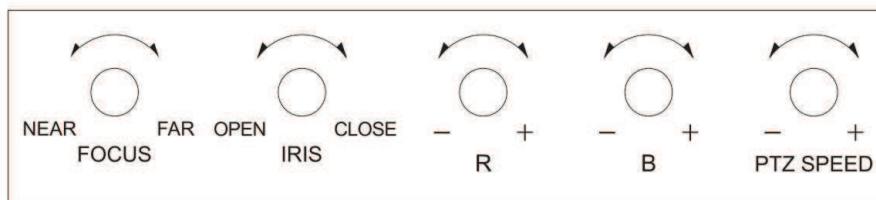
Number keys of 0,1,2,3,4,5,6,7,8,9.

2,4,6,8 serve as direction keys as well, which could control pan and tilt rotation, and camera OSD.

【ESC】 Return

【ENTER】 Confirm Button

2.2 Rocker Switch and Knob



【NEAR】【FAR】 Manually adjust the focal length.

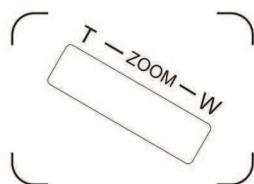
【OPEN】【CLOSE】 Manually adjust the aperture, OPEN(Aperture Plus)/CLOSE(Aperture minus)

【R-】【R+】 Manually adjust the Red Gain

【B-】【B+】 Manually adjust the Blue Gain

【PTZ SPEED-】【PTZ SPEED+】 Adjust PTZ Speed, Gears 1 (Slow)- 8(Fast)

IP PTZ Camera Controller- KBD2000 User Manual



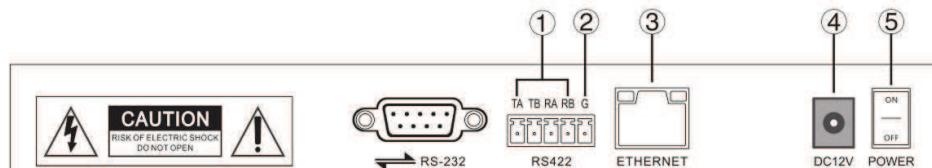
【T-ZOOM-W】 Zoom Tele and Zoom Wide.

2.3 Joystick Control



2.4 Terminal Description of Back Panel Interfaces

Back Panel Details: RS422, RS232, DC-12V, Ethernet, Power Switch



| Number | Label | Physical interface | Description |
|--------|----------|---------------------------------|--|
| ① | RS422 | Control Output (TA, TB, RA, RB) | 1. Connect to RS422 bus of the camera: TA to camera RA; TB to camera RB; RA to camera TA; RB to camera TB. |
| ② | Ground | Control line ground (G) | Control signal Line ground |
| ③ | ETHERNET | Ethernet port | Network connection |
| ④ | DC-12V | Power input | DC 12V Power input |

IP PTZ Camera Controller- KBD2000 User Manual

| | | | |
|-----|-------|--------------|---------------|
| (5) | POWER | Power switch | Power on/ off |
|-----|-------|--------------|---------------|

3. Local Settings (SETUP)

3.1 Basic Settings

Move the joystick up and down to switch 1 to 2, and 2 to 3 settings; Move the joystick left and right to switch on and off the button sound prompts, confirm with ENTER button.

- (1) Network Type: dynamic and static
- (2) Button sound prompt: on and off
- (3) Language setting: Chinese and English
- (4) Mode: VISCA, IP VISCA, ONVIF, PELCO
- (5) Version information
- (6) Restore factory settings
- (7) Local IP

3.2 VISCA & IP VISCA Mode shared Setting

- (1) F1: Custom function for F1 button (VISCA command)
- (2) F2: Custom function for F2 button (VISCA command)

Input custom name → ENTER → Input VISCA command

For example: the command is 8101040702FF, then input 01040702 (0 can't be omitted)

3.3 IP VISCA Mode Setting

Delete the saved device:

Move the joystick up and down to view devices; Move the joystick rightward to view the device's port information; Move the joystick leftward to view the IP, CAM NUM information; ENTER to delete the selected device.

IP PTZ Camera Controller- KBD2000 User Manual

3.4 VISCA Mode Setting

Control settings (set the baud rate for a certain address code):

Move the joystick up, down, left and right to switch addresses (1-7) → ENTER → Move the joystick left and right to switch baud rate → ENTER

EX: Select the address: 1 → ENTER → Select the baud rate: 9600 → ENTER

When the controller switch to address 1, the control baud rate is 9600

3.5 PELCO Mode Setting

Control settings (set the baud rate for a certain address code):

Move the joystick up, down, left and right to switch addresses (1-255) → ENTER → Move the joystick left and right to choose protocols → ENTER → Move the joystick left and right to switch baud rate → ENTER

EX: Select the address: 1 → ENTER → Select the protocol: PELCO-D → ENTER → Select the baud rate: 9600 → ENTER

When the controller switch to address 1, the control baud rate is 9600, protocol is PELCO-D

3.6 ONVIF Mode Setting

Delete saved device:

Move the joystick up and down to view devices; Move the joystick rightward to view the device's port information; Move the joystick leftward to view the IP, CAM NUM information; ENTER to delete the selected device.

4. Connection and Control

4.1 Connection and Control in ONVIF Mode

Search and Add

In ONVIF mode, follow the steps below to add a LAN device to the PTZ controller:

- (1) After the controller obtained IP address, simply press the SEARCH button.
- (2) All available devices with ONVIF protocol in the LAN will be displayed on the controller when search process is complete.
- (3) Move the joystick up/down to select the device, press the ENTER button to confirm.

IP PTZ Camera Controller- KBD2000 User Manual

- (4) It's required to enter the device's username, password and CAM NUM information when adding a device.
- (5) Press the ENTER button to save.
- (6) Alternatively to add a device via 【IP】 button manually.
- (7) Press the INQUIRE button to view the added device; Move the joystick up/down to view the saved device (move the joystick rightward to view the port); Press the ENTER button to select a camera to control, or use the CAM button to connect and control.

4.2 Connection and Control in IP VISCA Mode

Searching function is not available in IP VISCA mode, but to manually add a device.

- (1). Manually add device via the 【IP】 button.
- (2) Press the INQUIRE button to view the added device; Move the joystick up/down to view the saved device (move the joystick rightward to view the port); Press the ENTER button to select a camera to control, or use the CAM button to connect and control.

4.3 Control in VISCA & PELCO Mode

Simply set the address code and baud rate to control.

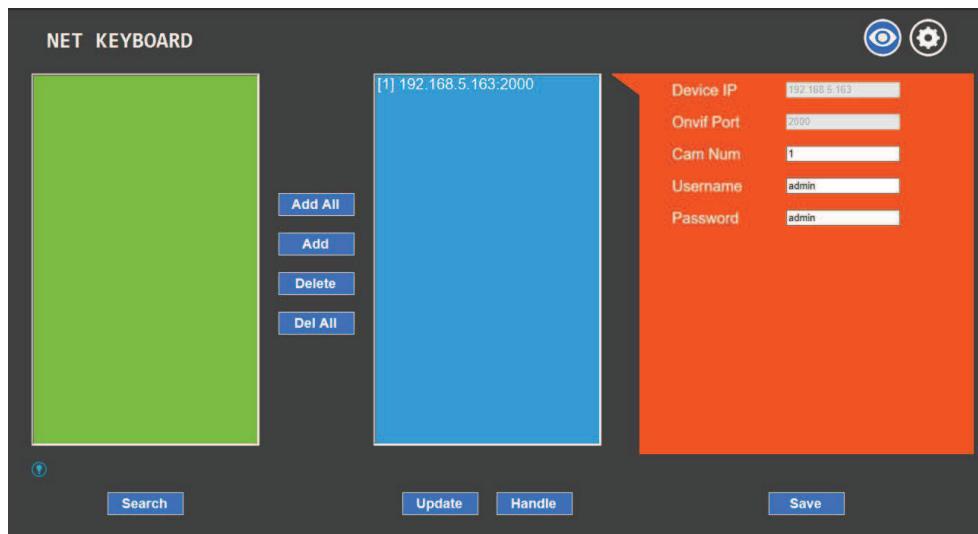
In PELCO Mode, correctly set the PELCO-D or PELCO-P protocol is required.

IP PTZ Camera Controller- KBD2000 User Manual

5. Web Page Configuration

5.1 Home Page

- (1) Connect the controller and computer to the same LAN and enter the controller's IP address into the browser.
- (2) Default username: admin ; Password: empty
- (3) Home page is as below:



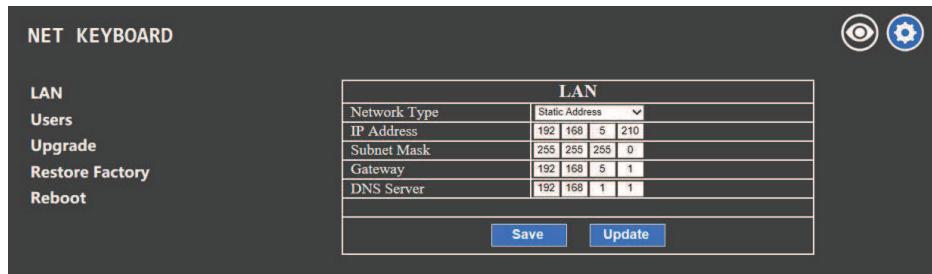
- (4) Home page consists of three segments: Search Device List (green); Added Device List (blue) or Manually Add (yellow); Device Details (orange).
- (5) Click "Search" button to find ONVIF devices in the LAN, which will be displayed in the green frame automatically.
- (6) Select the device in the "Search Device List", and click "Add" to complete. Press "Ctrl" for multiple selections.
- (7) Select the device in the "Added Device List", and click "Delete" to complete. Press "Ctrl" for multiple selections.
- (8) After successfully add a device, click the IP address in the "Added Device List" to edit the account and port information of the device.
- (9) After addition, deletion, and modification, click "Save" button to take effect.

PS. Any modification to the configuration on home page needs to be saved by click "Save" button; otherwise the modification is invalid.

IP PTZ Camera Controller- KBD2000 User Manual

5.2 LAN Settings

To modify the device IP access way and port parameters in LAN Settings, as shown below:



The screenshot shows the 'NET KEYBOARD' interface with the 'LAN' tab selected. On the left, there is a sidebar with options: LAN, Users, Upgrade, Restore Factory, and Reboot. The main area is titled 'LAN' and contains a table with the following data:

| LAN | | | |
|--------------|----------------|-----|-----|
| Network Type | Static Address | ▼ | |
| IP Address | 192 | 168 | 5 |
| Subnet Mask | 255 | 255 | 255 |
| Gateway | 192 | 168 | 1 |
| DNS Server | 192 | 168 | 1 |

At the bottom are two buttons: 'Save' and 'Update'.

Dynamic address (default access way): the Controller will automatically acquire IP address from the router.

Static address: Change the network to static address when necessary; simply input the network segment information to modify.

5.3 Upgrade



The screenshot shows the 'NET KEYBOARD' interface with the 'Upgrade' tab selected. On the left, there is a sidebar with options: LAN, Users, Upgrade, Restore Factory, and Reboot. The main area is titled 'Upgrade' and contains a table with the following data:

| Upgrade | |
|--------------------------------------|----------------------|
| Upgrade Device Firmware | <input type="file"/> |
| <input type="button" value="Start"/> | |

The upgrade function is applied for maintenance and update.

Choose the right upgrading file and click “start” to update the controller. It will auto reboot after updating.

PS: Do not operate the controller during the upgrade process. Do not power off or disconnect network

5.4 Restore Factory

Restore the controller to factory default settings when unexpected failure occurs due to incorrect modifications. Please use it with caution if the controller works well.

IP PTZ Camera Controller- KBD2000 User Manual

5.5 Reboot

Click Reboot for maintenance if the controller runs for a long time.

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UV570 series HD Video Conference Camera

The UV570 series camera offers perfect functions, superior performance and rich interfaces. The features include advanced ISP processing algorithms to provide vivid images with a strong sense of depth, high resolution, and fantastic color rendition.



Key Features

- **Superb High-definition Image**
UV570 employs 1/2.8 inch high quality CMOS sensor. Resolution is up to 1920x1080 with frame rate up to 60fps.
- **Leading Auto Focus Technology**
Leading auto focus algorithm makes lens a fast, accurate and stable auto-focusing.
- **Low Noise and High SNR**
Low Noise CMOS effectively ensure high SNR of camera video. Advanced 2D/3D noise reduction technology is also used to further reduce the noise, while ensuring image sharpness.
- **Multiple video output interfaces**
It has HDMI, SDI, CVBS, USB3.0, USB2.0 and LAN ports. Both video and audio can be output from HDMI, SDI, LAN, USB3.0 and USB2.0 at the same time. The transmission distance of SDI under 1080p60 is 100 meters.
- **Multiple Audio/Video Compression**
Support H.264/H.265 video compression, resolution up to 1920x1080 with frame up to 60fps. It applies AAC, MP3 and G.711A audio compression, with 8000,16000,32000,44100,48000 sampling frequency.
- **Audio/video storage:** USB2.0 interface supports U disk storage function for real-time recording and storage.
- **Built-in gravity sensor:** support automatic flip function, convenient for engineering installation.
- **Multiple Network Protocol**
- **Support ONVIF,GB/T28181, RTSP, RTMP protocols and support RTMP push mode,easy to link streaming media server (Wowza,FMS).Supports RTP multicast mode and supports network full command via VISCA control protocol.**
- **Control protocol**
RS485,RS232. RS-232 cascade function is convenient for installation.
- **Extremely Quiet PTZ**
Adopting step driving motor mechanism and motor drive controller with high precision is to ensure PTZ works smoothly with low speed and without noise.
- **Multiple Preset**
Support 255 preset positions (the remote controller is set to 10preset positions).
- **Multiple Remote Controller**
Users can choose infrared remote controller or wireless remote controller according to the environmental conditions.2.4G wireless remote controller is not affected by the angle, distance, infrared interference.
- **Wide Application**
Tele-education, Lecture Capture, Webcasting, Videoconferencing, Tele-training, Tele-medicine, Interrogation and Emergency command systems.
- **Low-power Sleep Function**
Support low-power sleep/wake up, the consumption is lower than 400mW under sleep mode.

Order No.

UV570X-XX-XX-XX

IR--IR Remoter

WR---Wireless Remoter

ST--Standard Interface

U3---USB3.0 interface

05---5X optical zoom

10---10X optical zoom

12---12X optical zoom

20---20X optical zoom

30---30X optical zoom

S---1080P60 downward compatible

M---1080P30 downward compatible

Gladys,
2019.6.3



Minrray Industry CO.,LTD
Email:minrray@mingricctv.com
Tel:86-(0)755-3328 8584
Add:5th Floor of Building 13A,ZhongHaiXin Innovation
Industry Park,Ganli 6Rd,Buji, Shenzhen,China

Technical Specification

| Model | UV570-05 | UV570-10 | UV570-12 | UV570-20 | UV570-30 |
|---------------------------------------|---|------------------------------|-----------------------------|-----------------------------|------------------------------|
| Camera Parameter | | | | | |
| Optical Zoom | 5X $f=3.1\sim 15.5mm$ | 10X $f=4.7\sim 47mm$ | 12X $f=3.9\sim 46.8mm$ | 20X $f=5.5\sim 110mm$ | 30X $f=4.3\sim 129mm$ |
| Sensor | 1/2.8 inch high quality HD CMOS sensor | | | | |
| Effective Pixels | 16: 9, 2.07 megapixel | | | | |
| Video Format | HDMI/SDI video format 1080P60/50/30/25/59.94/29.97, 1080I60/50/59.94, 720P60/50/30/25/59.94/29.97 CVBS format: 576i 480i USB3.0 format: 1920X1080@60fps Max USB2.0 format: 1080P@30fps Max | | | | |
| View Angle | 20.0° (tele) 83.7° (wide) | 6.43° (tele) 60.9° (wide) | 6.3° (tele) 72.5° (wide) | 3.3° (tele) 54.7° (wide) | 2.34° (tele) 65.1° (wide) |
| AV | F1.8 – F2.8 | F1.6 – F3.0 | F1.8 – F2.4 | F1.6 – F3.5 | F1.6 – F4.7 |
| Digital Zoom | 10X | | | | |
| Minimum Illumination | 0.5Lux (F1.8, AGC ON) | | | | |
| DNR | 2D & 3D DNR | | | | |
| White Balance | Auto / Manual/ One Push / 3000K/3500K/4000K/4500K/5000K/5500K/6000K/6500K/7000K | | | | |
| Focus/Aperture/ Electronic Shutter | Auto/Manual/One Push Focus | | | | |
| Iris | Auto/Manual | | | | |
| Shutter | Auto/Manual (1/25,1/30,1/50,1/60,1/90,1/100,1/120,1/180,1/250,1/350,1/500,1/1000,1/2000,1/3000,1/4000,1/6000,1/10000 for options) | | | | |
| BLC | ON/OFF | | | | |
| WDR | OFF / Dynamic level adjustment | | | | |
| Video Adjustment | Brightness,Color,Saturation,Contrast,Sharpness,B/W mode,Gamma curve | | | | |
| SNR | >55dB | | | | |
| Input/Output Interface | | | | | |
| Video Interfaces | UV570-05/10/12/20/30-ST Model: HDMI, SDI, LAN(POE), CVBS, RS232-IN/OUT, RS485, A-IN, USB2.0(USB Disk Storage) UV570-05/10/12/20/30-U3 Model: USB3.0(video&audio output), USB2.0(video&audio output),HDMI, LAN(POE), RS232-IN/OUT, RS485, A-IN, | | | | |
| Video Output | HDMI, SDI, LAN, USB3.0, USB2.0,CVBS | | | | |
| Video Stream | Dual stream output | | | | |
| Video Compression Format | LAN Interface: H.265, H.264, Dual stream output USB2.0 Interface: H.265, H.264, MJPEG USB3.0 Interface: YUV | | | | |
| Audio Input Interface | Double track 3.5mm linear input | | | | |
| Audio Output Interface | HDMI, SDI, LAN | | | | |
| Audio Compression Format | AAC/MP3/G.711A | | | | |
| Network Protocol | RTSP, RTMP, ONVIF, GB/T28181, Support network VISCA control protocol Support remote upgrade, remote restart, remote reset | | | | |
| Control Interface | RS232, RS485 | | | | |
| Control Protocol | VISCA/Pelco-D/Pelco-P, Baud Rate: 115200/9600/4800/2400bps | | | | |
| Power Interface | HEC3800 outlet (DC12V) | | | | |
| Input Voltage | DC12V±10% | | | | |
| Input Electric Current | Maximum: 1A | | | | |
| Power Consumption | Maximum: 12W | | | | |
| PTZ Parameter | | | | | |
| Pan/Tilt Rotation | ±170°, -30°~+90° | | | | |

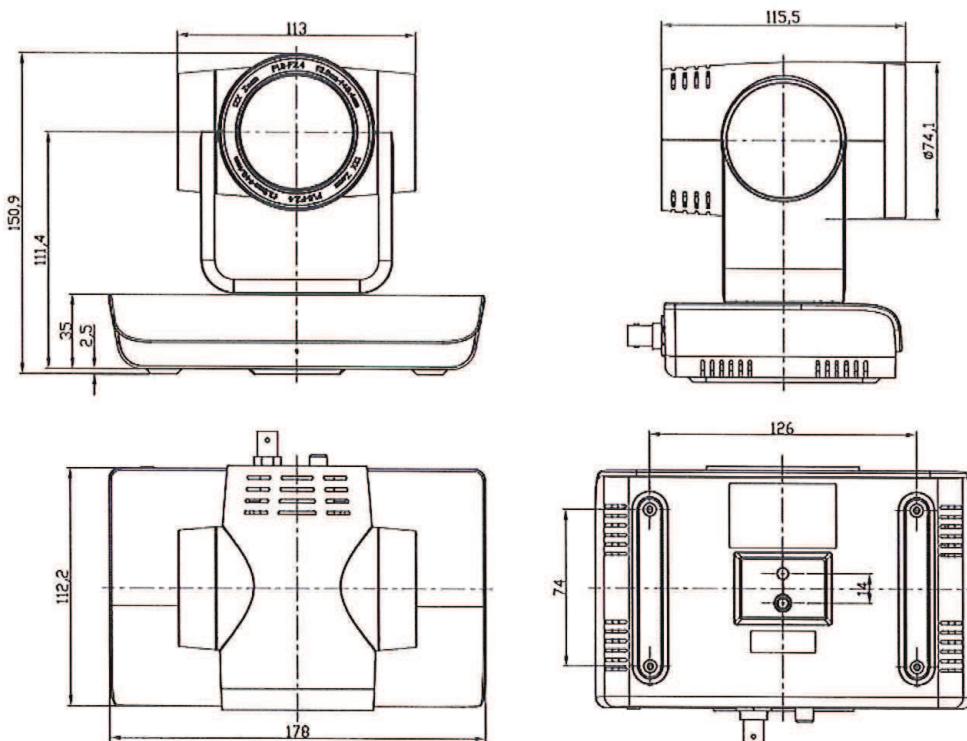
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| | |
|------------------------|--|
| Pan Control Speed | 0.1~60°/sec |
| Tilt Control Speed | 0.1~30°/sec |
| Preset Speed | Pan: 60°/sec, Tilt: 30°/sec |
| Preset Number | 255 presets (10 presets by remote controller) |
| Other Parameter | |
| Stored Temperature | -10°C~+60°C |
| Storage Humidity | 20%~95% |
| Working Temperature | -10°C~+50°C |
| Working Humidity | 20%~80% |
| Dimension | 178mmX115.5mmX150.9mm |
| Weight | 1.38KG |
| Attachment | |
| Package | 12V/1.5A Power supply, RS232 control cable, USB3.0 connection cable(U3 model), USB2.0 connection cable(U2 model), Remote Controller, Manual, Warranty Card |
| Accessories Optional | Mount (Extra Cost) |

Dimensions (unit:mm)



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