VS-KB21/VS-KB21N Quick Installation Guide

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1. Product IO Overview

Camera   Camera   Ethernet Switch

RS-422 Port   RS-232 Port   Ethernet port   Power Button

Firmware Update Port   Power Supply   Anti-theft lock slot

USB Disk   Power Supply Adapter + Power Cable
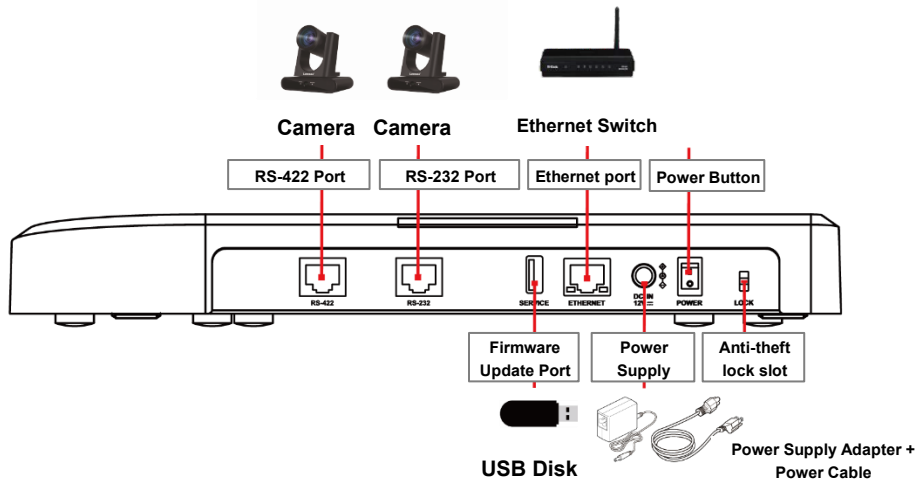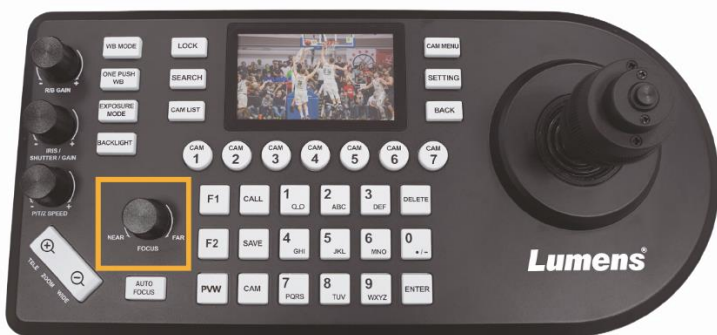
Note

- Ethernet port supports PoE (IEEE 802.3af) power supply
- RS-232/ RS-422 port do not support POE. Please do not connect with POE Switch

2. Menu Main Button Operation Instructions

When the menu is activated, the **Focus** button is the main control button.

- Left/Right rotation: Adjust parameters and navigate the menu
- Press: Perform "Confirm" action

3. Initial setting

3.1 Use the DC 12V power cord provided with the accessory or power it with a PoE (IEEE 802.3af) compatible network switch

3.2 Use the network cable (CAT5e or CAT6) to connect the IP port on the back of the keyboard to the local area network

3.3 If using power cord for power supply, please press the power button to turn on the control keyboard

4. Camera Setting

- **IP Control**
  Confirm that the camera and the control keyboard are on the same network segment, such as 192.168.100.xxx

- **RS-232/RS-422 Control**
  Confirm that the camera control port/protocol/baud rate/VISCA address and other parameter settings match the control keyboard

 Depending on the camera, the following methods are supported to adjust the parameters
  - Setting Menu: **[System]**
  - Webpage: (According to different webpage versions, there are two possible paths for settings.)
    [Settings] > [Maintenance] > [System Services] > [Control Port/Protocol/Baud Rate]
    [System] > [Control] > [Protocol] > [Baud Rate]
  - Camera bottom **Dip Switch** settings

5. How to Connect IP

5.1 Connect the keyboard and camera to the network switch

*If not connected to a network switch, the default IP for the control keyboard is **192.168.100.100**. Please set the camera to the same network segment
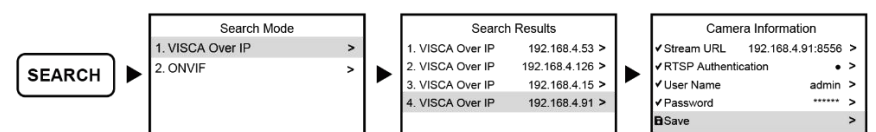
Keyboard

Cat5e network cable

Cat5e network cable
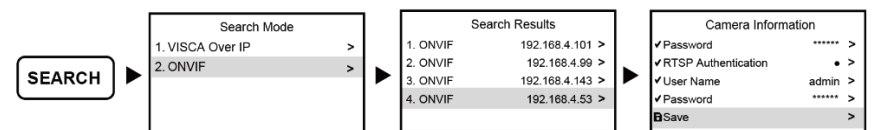
Router
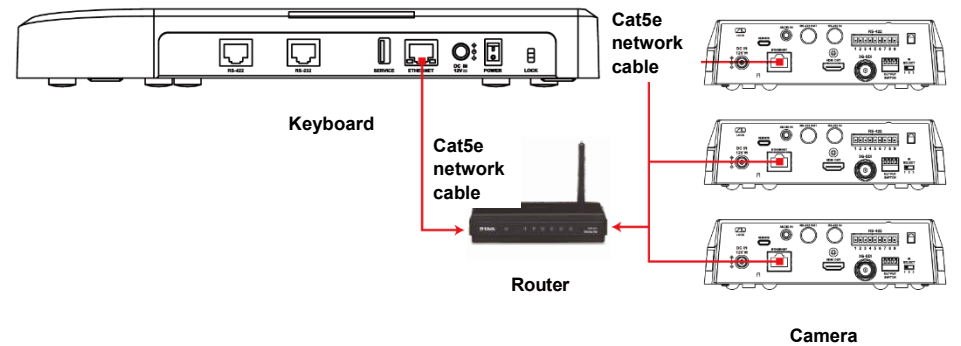
Camera

5.2 Add the camera to the device list

(1) Automatic search camera
Press **[SEARCH]** > Select search mode **>** Select camera **>** Save camera to list
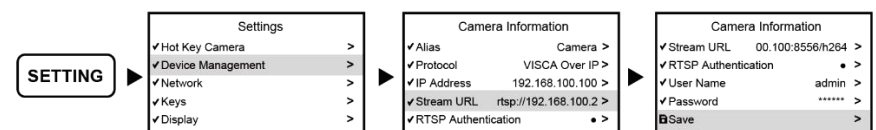
- VISCA Over IP

SEARCH	Search Mode 1. VISCA Over IP >< br>2. ONVIF >	Search Results 1. VISCA Over IP 192.168.4.53 > 2. VISCA Over IP 192.168.4.126 > 3. VISCA Over IP 192.168.4.15 > 4. VISCA Over IP 192.168.4.91 >	Camera Information ✓Stream URL 192.168.4.91:8556 > ✓RTSP Authentication • > ✓User Name admin > ✓Password ****** > ⊟Save >

- ONVIF

SEARCH	Search Mode 1. VISCA Over IP > 2. ONVIF >	Search Results 1. ONVIF 192.168.4.101 > 2. ONVIF 192.168.4.99 > 3. ONVIF 192.168.4.143 > 4. ONVIF 192.168.4.53 >	Camera Information ✓Password ****** > ✓RTSP Authentication • > ✓User Name admin > ✓Password ****** > ⊟Save >

- NDI (only applicable to VS-KB21N)

SEARCH	Search Mode 1. VISCA Over IP > 2. ONVIF > 3. NDI >	Search Results 1. NDI 192.168.4.141 >	Camera Information ✓Alias default, 192.168.4.141 > ✓Protocol NDI > ✓IP Address 192.168.4.141 > ⊟Save > ⊟Add to Shortcut Keys >

(2) Manually add camera
Press **[SETTING] >** [Device Management] **>** Set Control Protocol/IP Address **>** Save to List

SETTING	Settings ✓Hot Key Camera > ✓Device Management > ✓Network > ✓Keys > ✓Display >	Camera Information ✓Alias Camera > ✓Protocol VISCA Over IP > ✓IP Address 192.168.100.100 > ✓Stream URL rtsp://192.168.100.2 > ✓RTSP Authentication • >	Camera Information ✓Stream URL 00.100:8556/h264 > ✓RTSP Authentication • > ✓User Name admin > ✓Password ****** > ⊟Save >

5.3 Confirm CAM ID in the **[CAM LIST]**

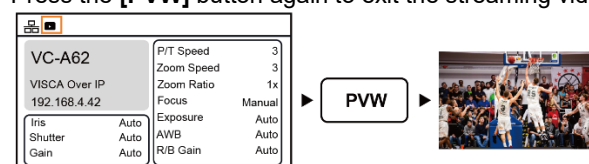|	
CAM LIST	Device List 1. VC-A62 VISCA Over IP 192.168.4.42 > 2. VC-A71SN VISCA Over IP 192.168.4.141 > 3. VC-TR30 VISCA Over IP 192.168.4.129 > 4. Camera VISCA Over IP >
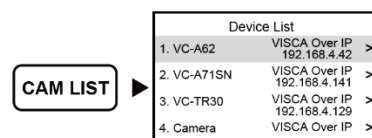
5.4 Call the camera
Press the number and then **[CAM]** to call the camera.
e.g [1] > [CAM]

5.5 Preview streaming video
IP connection supports previewing camera RTSP streaming.
Confirm screen display preview icon **>** press **[PVW]** **>** display camera RTSP streaming image
*Press the **[PVW]** button again to exit the streaming video screen

VC-A62 VISCA Over IP 192.168.4.42 Iris Auto Shutter Auto Gain Auto	P/T Speed 3 Zoom Speed 3 Zoom Ratio 1x Focus Manual Exposure Auto AWB Auto R/B Gain Auto

PVW

6. RS-232/RS-422 Connection Instruction

RS-232		
1		8
Pin No.	Function	Color
1	-	Orange/White
2	□	Orange
3	GND	Green/White
4	-	Blue
5	□	Blue/White
6	GND	Green
7	RXD	Brown/White
8	TXD	Brown

| RS-422 (A/B)		
1		8
Pin No.	Function	Color
1	TX-	Orange/White
2	TX+	Orange
3	GND	Green/White
4	-	Blue
5	□	Blue/White
6	-	Green
7	RX-	Brown/White
8	RX+	Brown
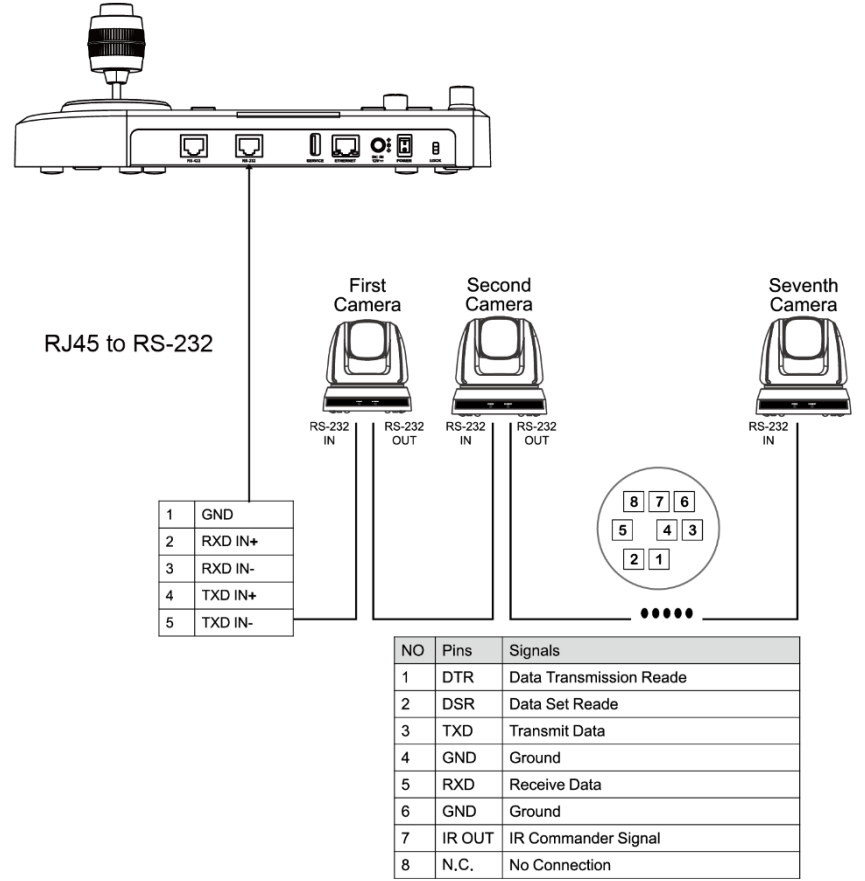
6.1 Please refer to the pin definitions of RS-232/RS-422 for connecting the camera and control keyboard.

[Note] RS-232 connection can be used with Lumens optional accessory VISCA cable extender (VC-AC07), combined with a network cable, no need to wire it yourself to use with control keyboard

6.2 Set camera

Press **[SETTING]** > **[Hot Key Camera]** > select camera **>** set VISCA/IP address/baud rate and other information to match the camera
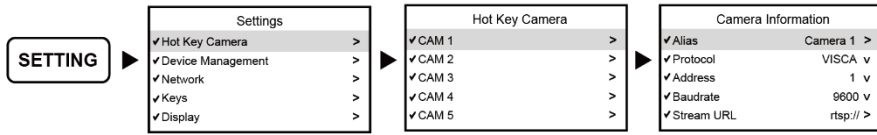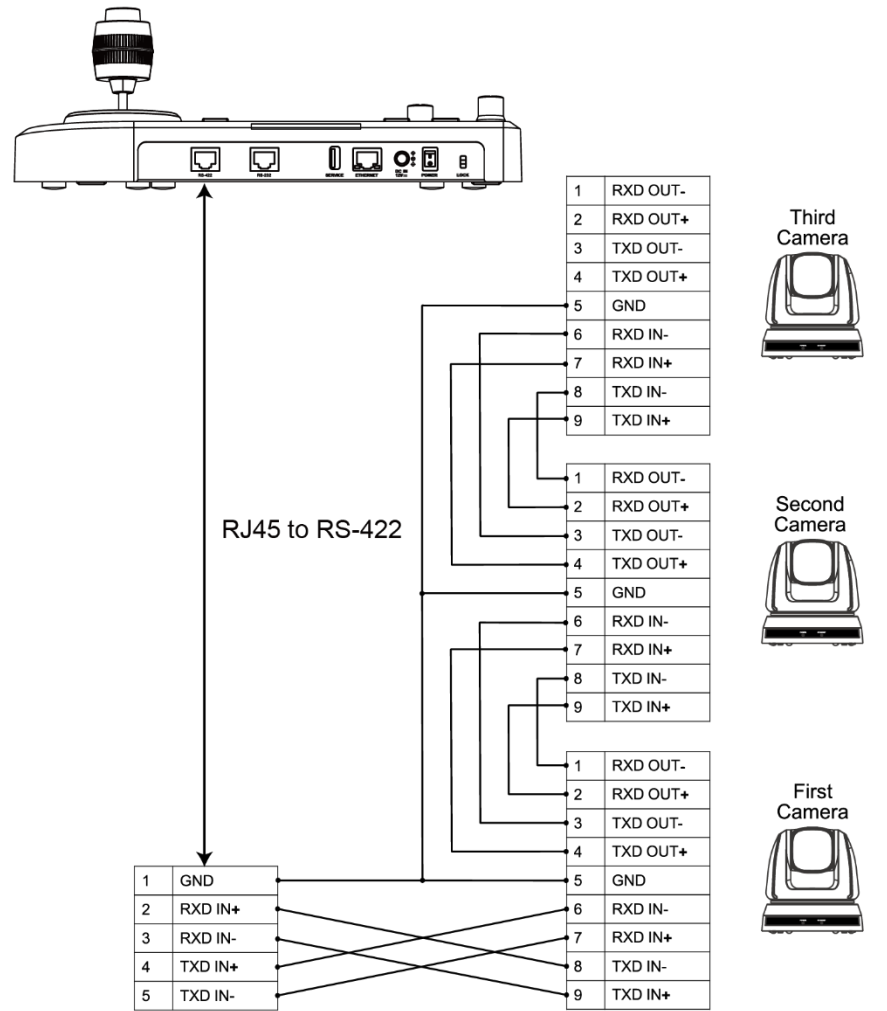

6.3 Call the camera

Setup complete, select the **[Hot Key Camera]** (e.g. ①) to call the camera

6.4 If the camera is daisy chained, please refer to the pin definition of camera to complete the connection of multiple cameras.

▪ RS-232

1	GND
2	RXD IN+
3	RXD IN-
4	TXD IN+
5	TXD IN-

NO	Pins	Signals
1	DTR	Data Transmission Reade
2	DSR	Data Set Reade
3	TXD	Transmit Data
4	GND	Ground
5	RXD	Receive Data
6	GND	Ground
7	IR OUT	IR Commander Signal
8	N.C.	No Connection

▪ RS-422

RJ45 to RS-422

1	GND
2	RXD IN+
3	RXD IN-
4	TXD IN+
5	TXD IN-

※For questions about the installation, please scan the QR Code. A support person will be assigned to assist you.

Get Help？