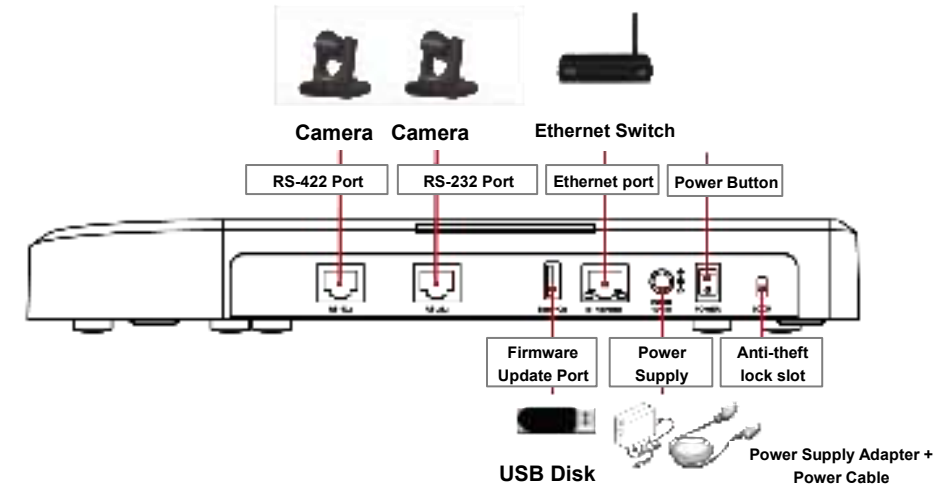


1. Product IO Overview



- 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

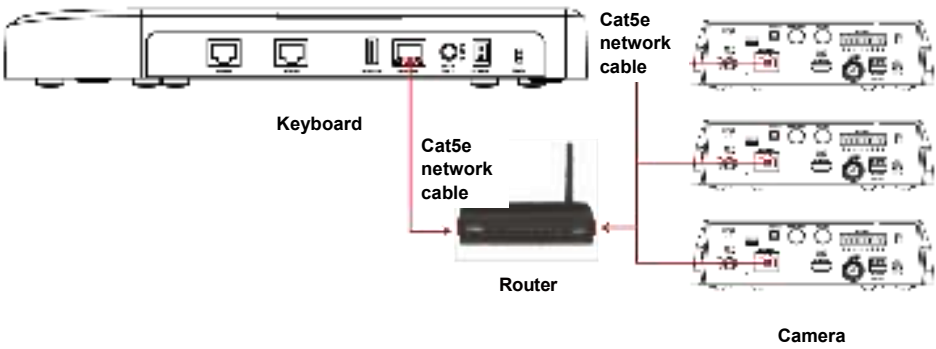
- Use the DC 12V power cord provided with the accessory or power it with a PoE (IEEE 802.3af) compatible network switch
- Use the network cable (CAT5e or CAT6) to connect the IP port on the back of the keyboard to the local area network
- If using power cord for power supply, please press the power button 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

- 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



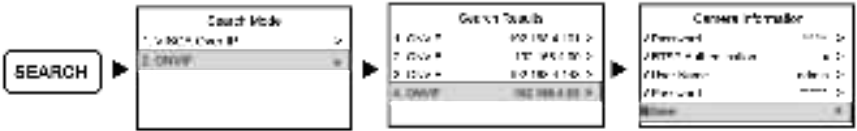
5.2 Add the camera to the device list

- Automatic search camera
Press **[SEARCH]** > Select search mode > Select camera > Save camera to list

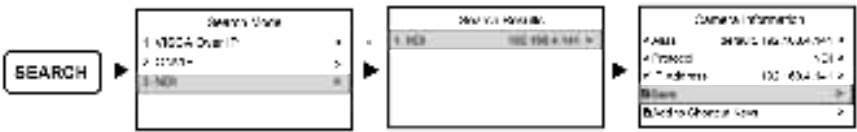
VISCA Over IP



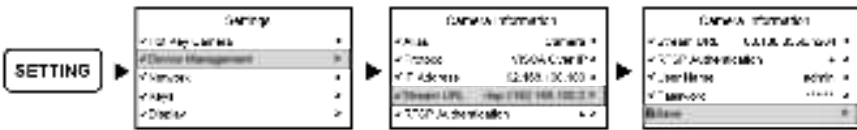
ONVIF



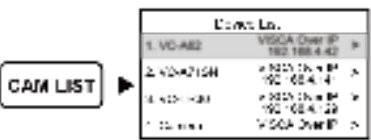
NDI (only applicable to VS-KB21N)



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



5.3 Confirm CAM ID in the [CAM LIST]



- Call the camera
Press the number and then **[CAM]** to call the camera.
e.g. **1** > **[CAM]**

- 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

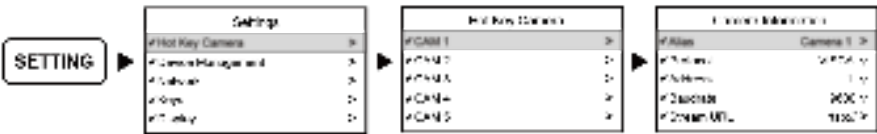


6. RS-232/RS-422 Connection Instruction

RS-232			RS-422 (A/B)		
Pin No.	Function	Color	Pin No.	Function	Color
1	-	Orange/White	1	TX-	Orange/White
2	-	Orange	2	TX+	Orange
3	GND	Green/White	3	GND	Green/White
4	-	Blue	4	-	Blue
5	-	Blue/White	5	-	Blue/White
6	GND	Green	6	-	Green
7	TXD	Brown/White	7	RX-	Brown/White
8	RXD	Brown	8	RX+	Brown

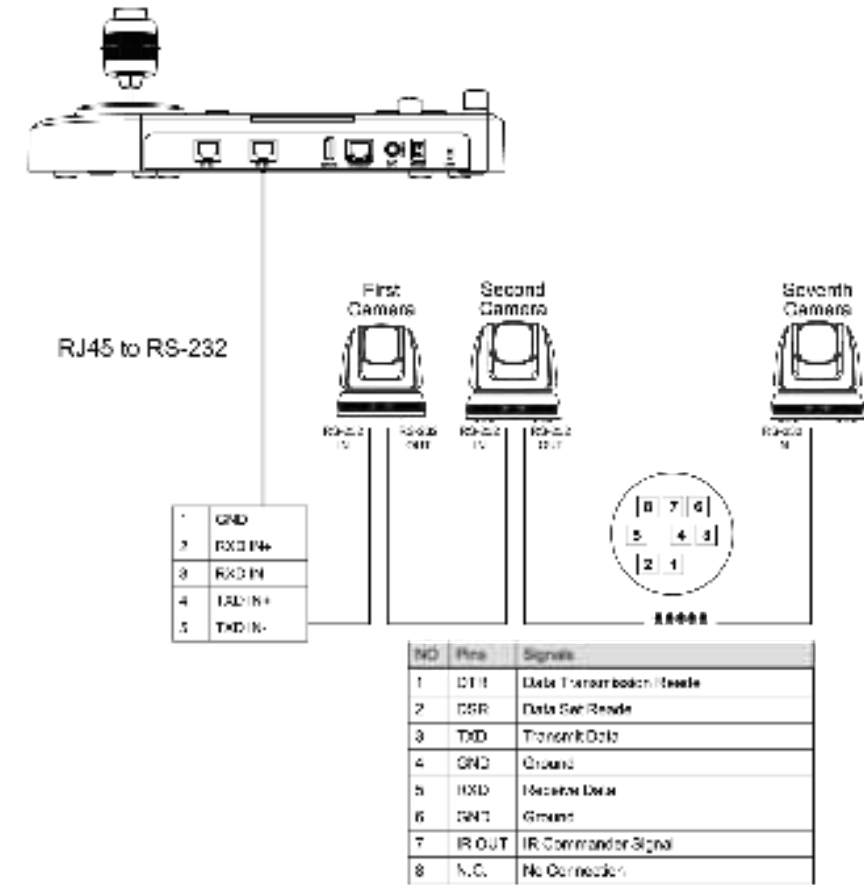
- 6.1 Please refer to the pin definitions of RS-232/RS-422 for connecting the camera and control keyboard.
- Note RS-232 connection can be used with Lumens optional accessory VISCA cable extender (VC-AC07), combined with a network cable, no need to wire it yourself to use with control keyboard
- 6.2 Set camera

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

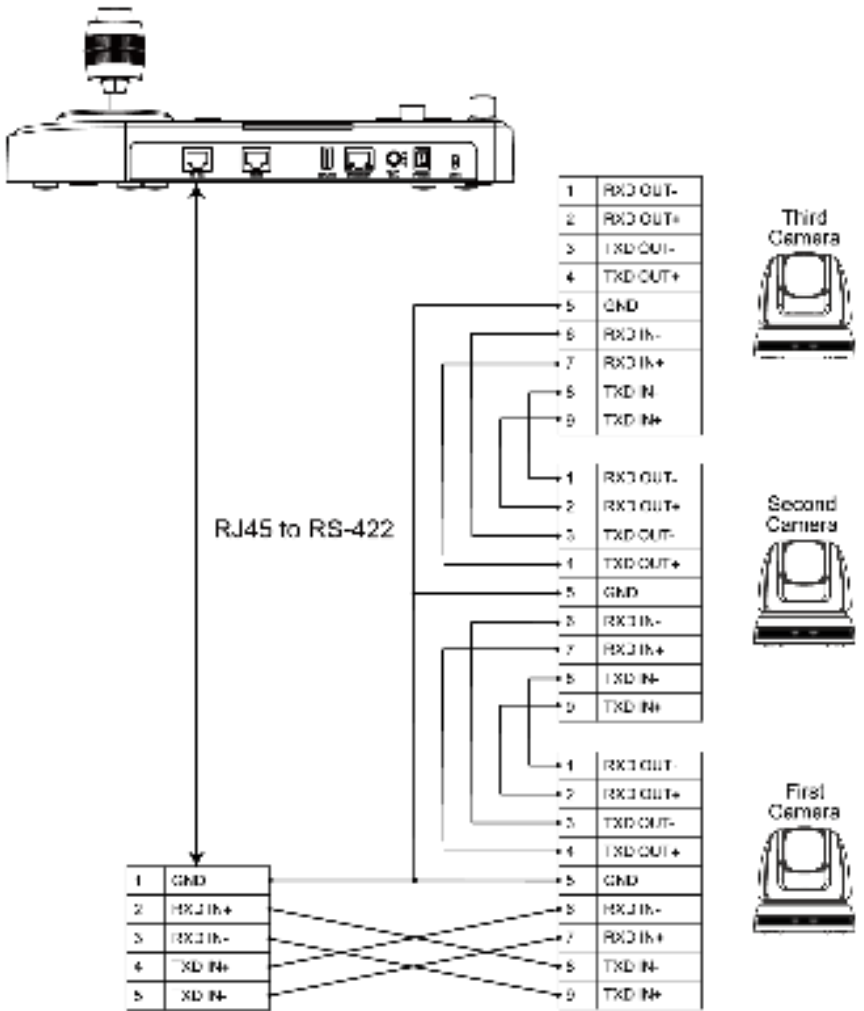


- 6.3 Call the camera
- Setup complete, select the **[Hot Key Camera]** (e.g. 1) to call the camera
- 6.4 If the camera is daisy chained, please refer to the pin definition of camera to complete the connection of multiple cameras.

RS-232



RS-422



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

Get Help ?