Manuals+ — User Manuals Simplified.

Lumens VS-KB21 IP Camera Controller Installation Guide

Contents

Lumens VS-KB21 IP Camera Controller

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
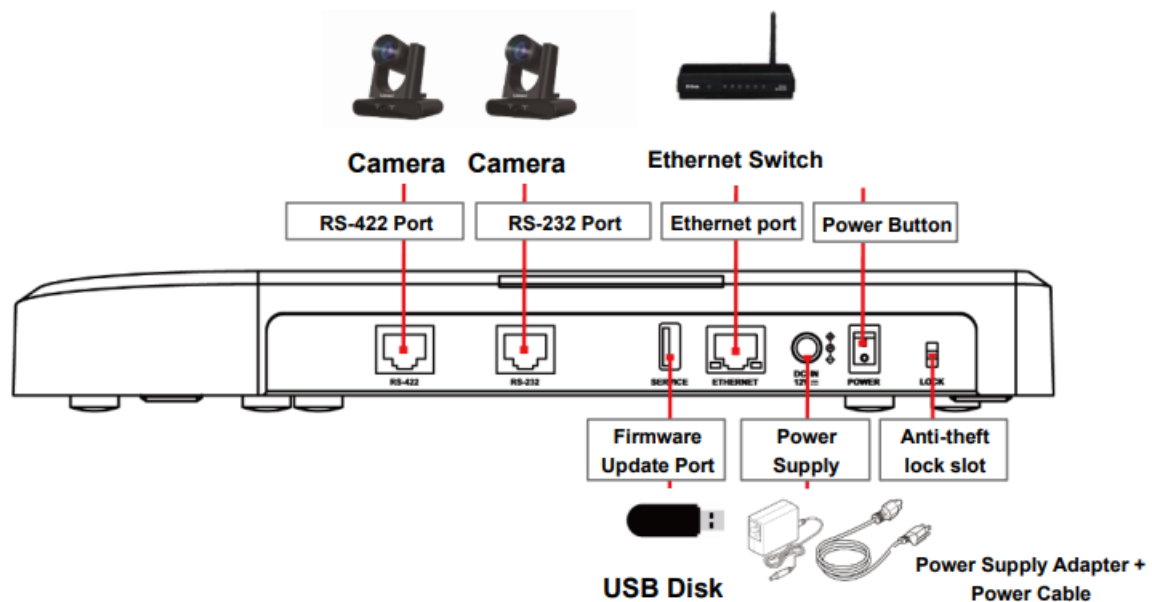
NOTE

- 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

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

Initial setting

1. Use the DC 12V power cord provided with the accessory or power it with a PoE (IEEE 802.3af) compatible network switch
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. If using a power cord for the power supply, please press the power button to turn on the control keyboard

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

How to Connect IP

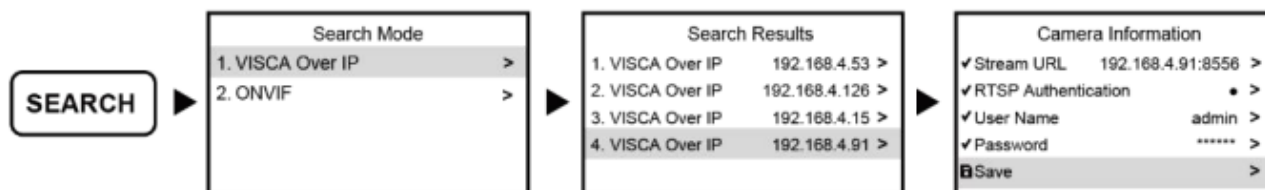1. Connect the keyboard and camera to the network switch
   - If not connected to a network switch, the default IP for the control keyboard is 192.168.100.100. Please set the camera to the same network segment
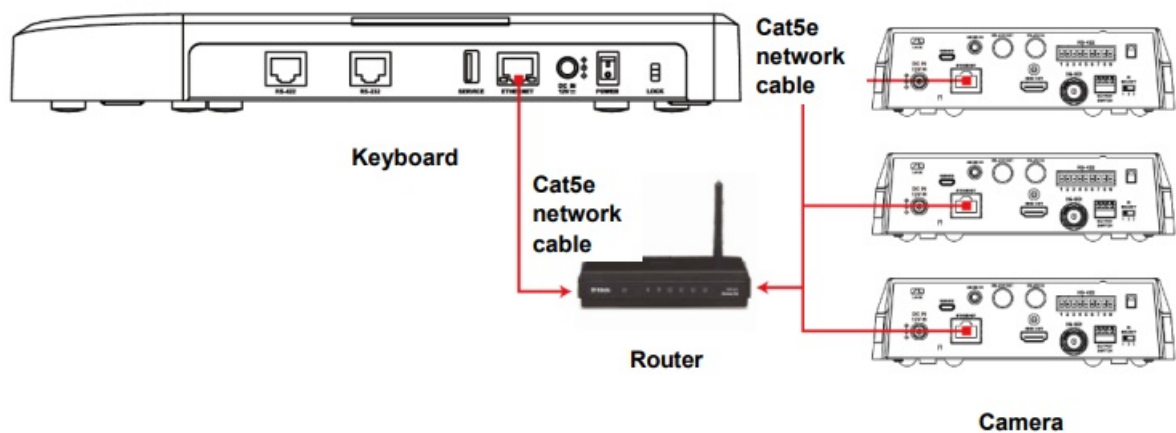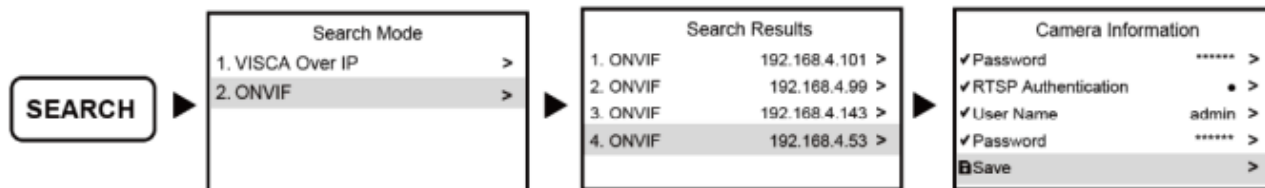

2. Add the camera to the device list
   1. Automatic search camera Press [SEARCH] > Select search mode > Select camera > Save camera to list
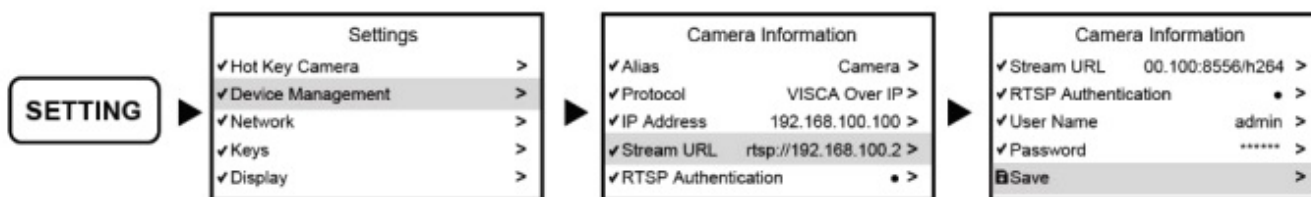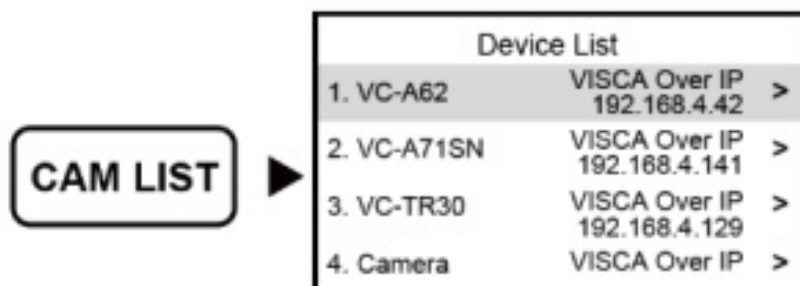
▪ VISCA Over IP

SEARCH ▶

Search Mode
1. VISCA Over IP	>
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	>

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	>

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	>

Call the camera

Press the number and then [CAM] to call the camera. e.g $\boxed{1_{\text{oo}}} > \boxed{\text{CAM}}$

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
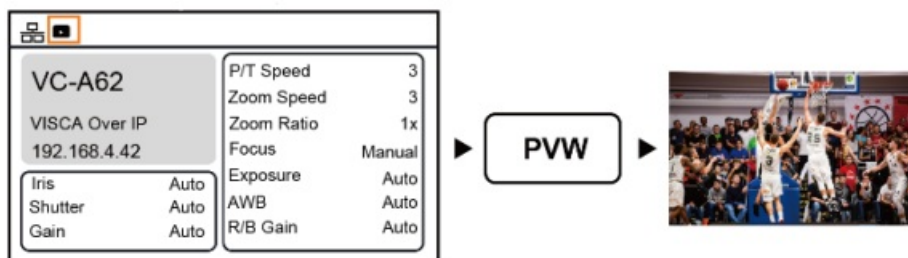
RS-232/RS-422 Connection Instruction

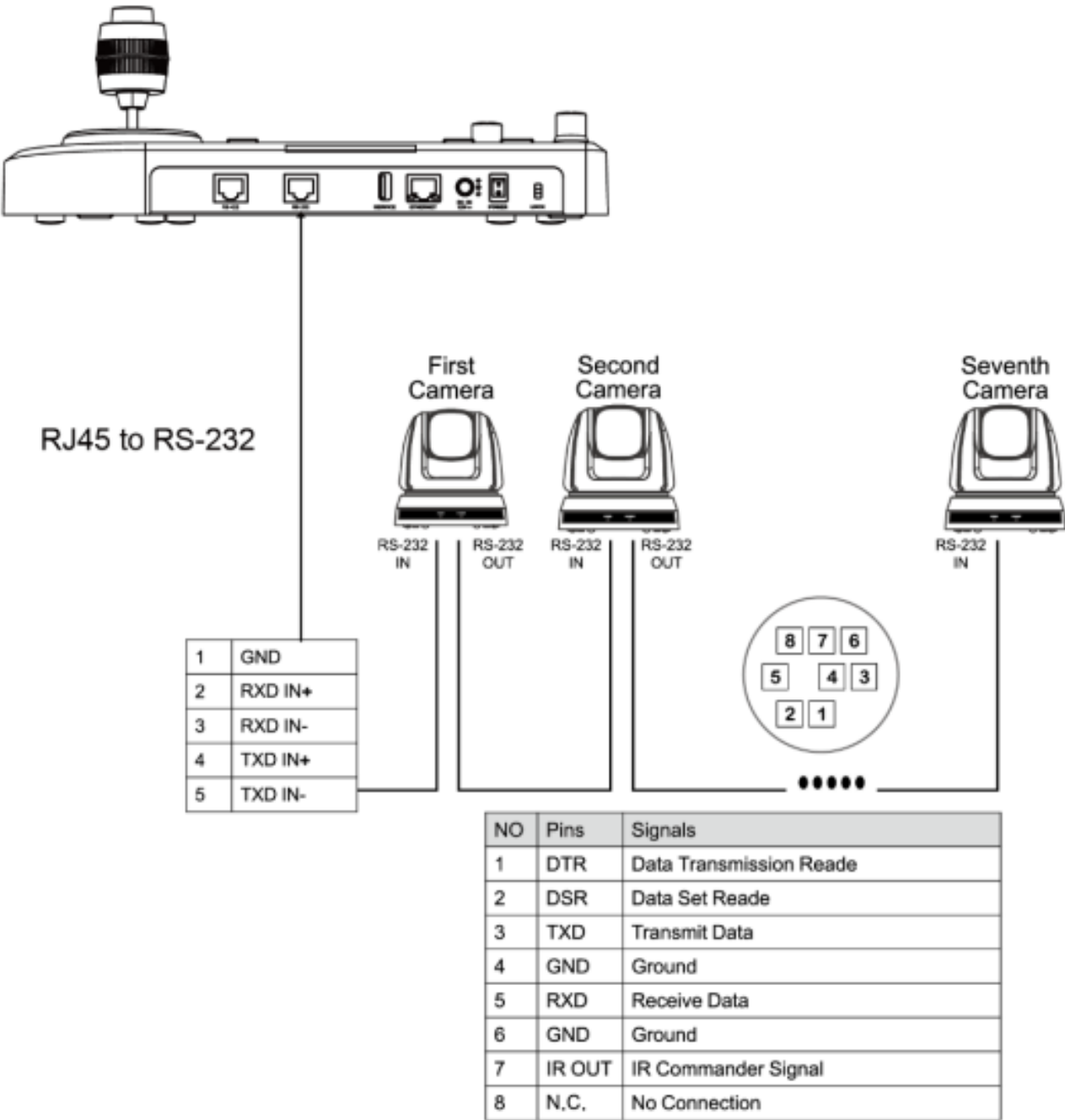| RS-232				RS-422 (A/B)		
Pin No.	Function	Color		Pin No.	Function	Color
1	-	Orange/White		1	TX-	Orange/White
2	▫	Orange		2	TX+	Orange
3	GND	Green/White		3	GND	Green/White
4	-	Blue		4	-	Blue
5	▫	Blue/White		5	▫	Blue/White
6	GND	Green		6	-	Green
7	RXD	Brown/White		7	RX-	Brown/White
8	TXD	Brown		8	RX+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

1. Please refer to the pin definitions of RS-232/RS-422 for connecting the camera and control keyboard. 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

2. Set camera Press [SETTING] > [Hot Key Camera] > select camera > set VISCA/IP address/baud rate and other information to match the camera
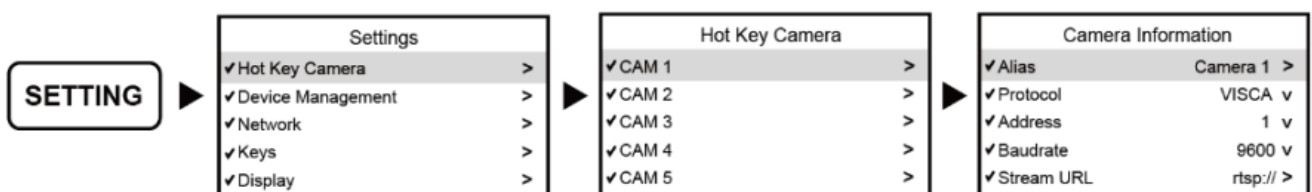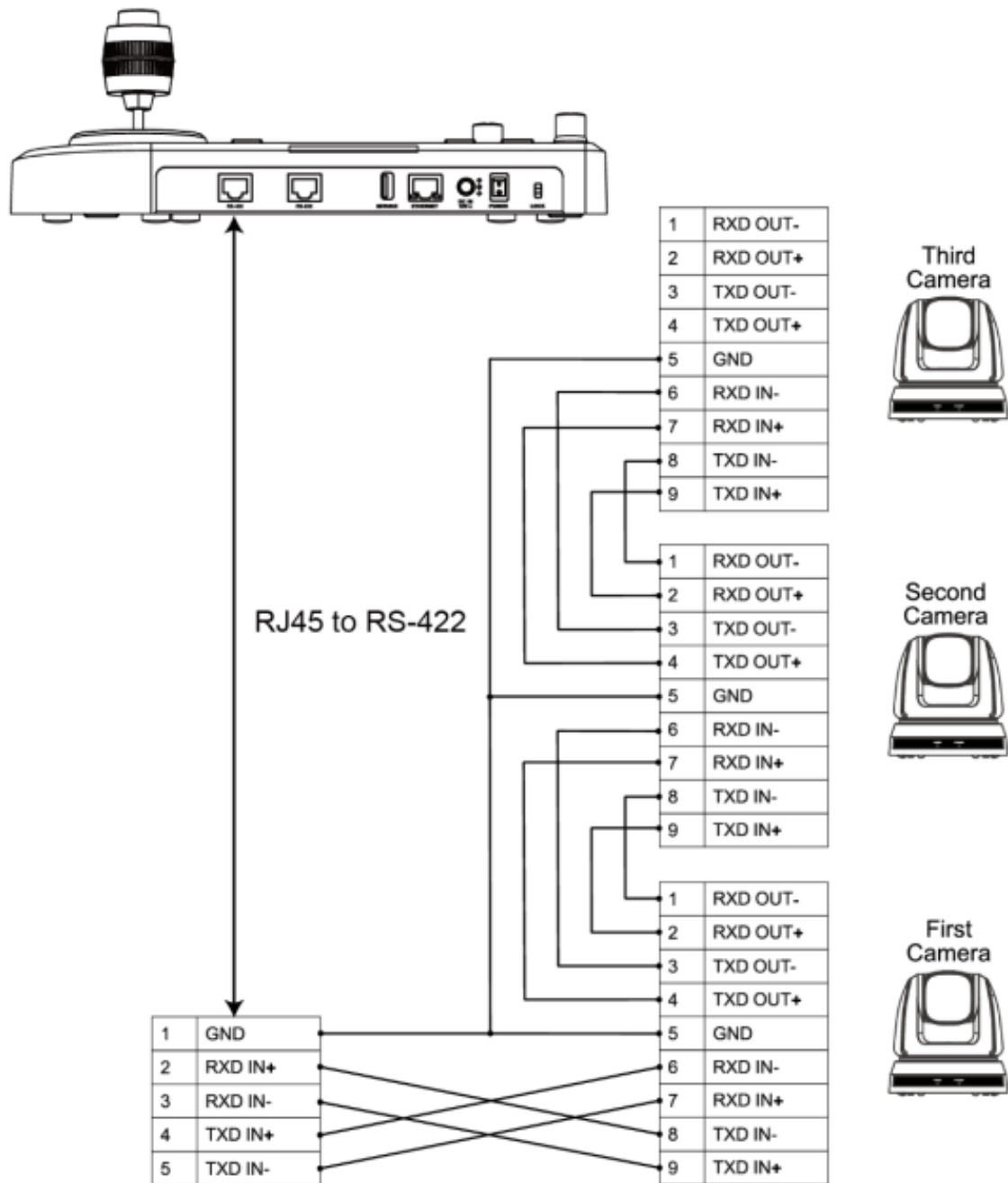
3. Call the camera Setup complete, select the [Hot Key Camera] (e.g.) to call the camera

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	RXD OUT-
2	RXD OUT+
3	TXD OUT-
4	TXD OUT+
5	GND
6	RXD IN-
7	RXD IN+
8	TXD IN-
9	TXD IN+

Third Camera

1	RXD OUT-
2	RXD OUT+
3	TXD OUT-
4	TXD OUT+
5	GND
6	RXD IN-
7	RXD IN+
8	TXD IN-
9	TXD IN+

Second Camera

1	RXD OUT-
2	RXD OUT+
3	TXD OUT-
4	TXD OUT+
5	GND
6	RXD IN-
7	RXD IN+
8	TXD IN-
9	TXD IN+

First Camera

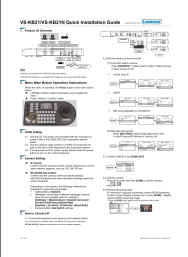|	
1	GND
2	RXD IN+
3	RXD IN-
4	TXD IN+
5	TXD IN-

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

Get Help ?

- **www.MyLumens.com**

Documents / Resources

	[Lumens VS-KB21 IP Camera Controller](#) [pdf] Installation Guide VS-KB21, VS-KB21N, VS-KB21 IP Camera Controller, IP Camera Controller, Camera Controller, Controller

References

- 📷 **[Lumens – Pro AV Technology | Lumens](#)**
- 📷 **[Lumens – Pro AV Technology | Lumens](#)**
- **[User Manual](#)**