VS-KB21/ VS-KB21N Keyboard controller (Keyboard Controller)

User Manual - English



[Important]

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Always follow these safety instructions when setting up and using this product:

- 1. Use attachments only as recommended.
- 2. Use the type of power source indicated on the Keyboard Controller. If you are not sure of the type of power available, consult your distributor or local electricity company for advice.
- 3. Always take the following precautions when handling the plug. Failure to do so may result in sparks or fire:
 - Ensure the plug is free of dust before inserting it into a socket.
 - Ensure that the plug is inserted into the socket securely.
- 4. Do not overload wall sockets, extension cords or multi-way plug boards as this may cause fire or electric shock.
- 5. Do not place this product where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
- 6. Never allow liquid of any kind to spill into this product.
- 7. Except as specifically instructed in this User Manual, do not attempt to operate this product by yourself. Opening or removing covers may expose you to dangerous voltages and other hazards. Refer all servicing to licensed service personnel.
- 8. Unplug this product during thunderstorms or if it is not going to be used for an extended period. Do not place this product or remote control on top of vibrating equipment or heated objects such as a car, etc.
- 9. Unplug this product from the wall outlet and refer servicing to licensed service personnel when the following situations happen:
 - If the power cord or plug becomes damaged or frayed.
 - If liquid is spilled into this product or this product has been exposed to rain or water.

Precautions

Warning: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

If the this product will not be used for an extended time, unplug it from the power socket.



■ FCC Warning

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Notice :

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This product has been tested and found to comply with the limits for a Class B computer device, pursuant to Article 15-J of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation.

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus," ICES-003 of Industry Canada.

Cet appareil numerique respecte les limites de bruits radioelectriques applicables aux appareils numeriques de Classe B prescrites dans la norme sur le material brouilleur: "Appareils Numeriques," NMB-003 edictee par l'Industrie.



2.1 I/O Introduction



No	Item	Function Descriptions
		Connect the RS-422 adapter cable that can control up to 7 cameras
1	RS-422 port	RS232 and RS422 cables cannot be connected to the KB21 simultaneously, as the Hot Key Camera Settings will not be configured correctly.
		Connect the RS-232 adapter cable that can control up to 7 cameras
2	RS-232 port	RS232 and RS422 cables cannot be connected to the KB21 simultaneously, as the Hot Key Camera Settings will not be configured correctly.
3	USB port	Update the keyboard control firmware via a USB disk
		Note Use format "FAT32", "capacity less than 32G"
1	IP port	Connect the RJ45 network cable
4		Supports PoE(IEEE802.3af)
5	12 V DC power port	Connect the included DC power supply adapter and the power cable
6	Power Button	Turn on/off keyboard power
7	Safety lock	Use the safety lock to lock the keyboard for anti-theft purpose

RS-232/ RS-422 port do not support POE. Please do not connect with POE Switch
 RS232 and RS422 cables cannot be connected to the KB21 simultaneously, as the Hot Key Camera

Settings will not be configured correctly.



2.2 Panel function introduction



No	Item	Function Descriptions
1	WB	Automatic/manual white balance switch When the setting is automatic white balance, the AUTO indicator will turn on
2	ONE PUSH WB	One push white balance
3	EXPOSURE	Auto, Iris PRI, Shutter PRI
4	BACKLIGHT	Turn on/off back light compensation
5	LOCK	Lock the control of all image adjustment and rotary buttons Press and hold for 3 seconds to enable the lock; press and hold for 3 seconds again to cancel the lock
6	SEARCH	Search or add the camera IP setting
7	CAM LIST	Check the currently connected camera
8	LCD screen	Display control and setting information of the keyboard
9	CAM MENU	Call the camera OSD menu
10	SETTING	Enter the settings menu
11	BACK	Back to the previous step
12	R/B GAIN	Adjust the white balance in red/blue manually
13	IRIS / SHUTTER	Adjust the aperture or shutter
14	P/T/Z SPEED	Rotate: Adjust/control the speed Press: Switch between P/T or Z
15	ZOOM SEESAW	Control ZOOM in/out
16	FOCUS CONTROL	Rotate the knob to adjust NEAR/FAR parameters (for Manual Focus use only) Press to execute One Push Focus LCD menu: Rotate left/right to adjust parameters and navigate the menu LCD menu: Press to select an item
17	AUTO FOCUS	Automatic/manual focus switch When the setting is automatic focus, the AUTO indicator will turn on
18	CAMERA BUTTON CAM1~CAM7	Quickly select Camera 1 ~ 7 and control the camera within 1 second Press and hold for 3 seconds to access the shortcut key settings page
19	Assign Button F1~F2	Set up the shortcut key to quickly control the camera
20	PVW	Press to display the camera's RTSP streaming video
21	CALL	Press number button to call a camera preset position
22	SAVE	Press number button to save a camera preset position
23	САМ	Press number button to select the specific camera (Cam 1 - 255)



No	Item	Function Descriptions
24	Letter and number keyboard 0 ~ 7	CALL a camera; call a preset position; key in the camera name (LCD menu)
25	DELETE	Control LCD menu to execute "delete" action
26	ENTER	Control LCD menu to execute "confirm" action
27	PTZ joystick	Control the camera PTZ operation

2.3 LCD screen display description



No	Item	Function Descriptions
1	Camera ID and protocol	Display the camera currently under control and the protocol currently in use
2	EXPOSURE MODE	Display the current camera exposure mode
3	Connected device parameter information	Display the current camera parameter information
4	Network connection indication status	If the play icon appears, the camera's RTSP streaming video can be displayed



Chapter 3 LCD function menu description

3.1 Access LCD function menu

Press the SETTING button on the keyboard to access the LCD function menu



3.2 Hot Key Camera

Item	Settings	Description
CAM	1~7	Assign the camera number; 7 units can be set at most

3.3 Advanced settings for Hot Key Camera

Please note that different protocols might have different configurable options below.

Item	Settings	Description
Alias	-	The camera can be named using letters on the keyboard
Protocol	VISCA VISCAIP VISCATCP ONVIF NDI	Select a control protocol to be used for connecting the camera Only VS-KB21N support NDI.
Address (Visca)	1~7	Set VISCA ID from 1 to 7
Baudrate (Visca)	<u>9600</u> / 19200 / 38400 / 115200	Set control Baudrate
IP Address (ViscaIP, TCP)	-	Enter the IP address
Port (Visca TCP)	-	Setting range 1~65534
Onvif Account (Onvif)	Off/ On	Enable/ Disable ONVIF account. Support to preview (PVW) camera image when it enabled.
Stream URL	rtsp://cam ip:8556/h264	Can be automatically imported based on added models
RTSP Authentication	Off /On	Select to enable RTSP Authentication function
User Name	admin	Automatically import account and password, shown by User name.
Password	9999	Automatically import account and password, shown by *****
Reset Camera Address(Visca)	-	Reset address of the camera
OIP Link Mode (Visca IP, Onvif)	Off /On	Enable/ Disable the OIP Link
OIP Manual Trigger(Visca IP, Onvif)	Off/ On	OIP Link can be triggered manually.
OIP Qty. (Visca IP, Onvif)	1~7	Choose the quantity from 1 to 7.
OIP Address (Visca IP, Onvif)	-	Click the button, then enter the IP address of OIP device
Source ID	-	Choose the source ID accordingly.
Select from List	-	Select a specific camera from the CAM List and apply it automatically

3.4 Device Management

Item	Settings	Description
Device List	-	View the current device list



Add a New List	-	Add a new device
Ignored Device List	-	View the current list of ignored devices
Add an Ignored Device	-	Add an ignored device

3.5 Network

Item	Settings	Description
Туре	STATIC / DHCP	Specify a static IP or let DHCP to assign an IP to the keyboard
IP Address	192.168.0.100	For a static IP, specify the IP address in this field (Default IP is 192.168.0.100)
Subnet Mask	255.255.255.0	For a static IP, specify the subnet mask in this field
Gateway	192.168.0.1	For a static IP, specify the gateway in this field
DNS 1	192.168.0.1	Set DNS 1 information
DNS 2	8.8.8.8	Set DNS 2 information

3.6 KEYS

Item	Settings	Description
F1 ~ F2	None Home Power Mute Picture Freeze Pan/Tilt Reset Picture Flip Picture LR_Reverse Tracking Mode Framing Mode Auto Tracking On Auto Tracking Off Auto Framing Off OIP Trigger CustomCommands	F1 ~ F2 buttons can be set as shortcut keys separately Functions may be set as the list displayed to the left After selecting Function, choose the target function Press the shortcut key and the camera will perform the specified function quickly



3.7 Display

Item	Settings	Description
	Red	
	Green	
Theme Color	Blue	Adjust LCD theme color
	Orange	
	Purple	
	Low	
Brightness	Medium	Adjust keyboard brightness
	<u>High</u>	
	Low	
Key Brightness	<u>Medium</u>	Adjust key brightness
	High	

3.8 Beep

Item Settings		Description
Enable	<u>Off</u> / On	Turn on or off button sound effects
Style	<u>1</u> /2/3	Select the button sound type

3.9 Joystick

Item	Settings	Description	
Zoom Enable	<u>On</u> / Off	Enable/Disable the Joystick control for Zoom	
Pan Reverse	On / <u>Off</u>	Enable/Disable the horizontal inversion	
Tilt Reverse	On / <u>Off</u>	Enable/Disable the vertical inversion	
Correction	-	Correct the Joystick direction	

3.10 Tally

Item	Settings	Description
Enable	<u>ON</u> / OFF	Enable the Tally light

3.11 Language

Item	Description
<u>English</u> / Simplified Chinese / Traditional Chinese	Language setting

3.12 Password Setting

Item	Settings	Description
Enable	ON / <u>OFF</u>	Once enabled, you need to enter a password when entering SETTINGS
Change Password	-	Set up a new password

3.13 Sleep Mode

Item	Settings	Description
Enable	ON / <u>OFF</u>	Enable the sleep mode
Goes to Sleep after	15 Mins / 30 Mins	Set the sleep mode activation time



	/ 60 Mins	
Lightness change	LCD Screen Light	Sat the algor mode provide corean and keyboard brightness
	Keypad Backlight	Set the sleep mode preview screen and keyboard brightness

3.14 About Device

Item	Description
IP Address	
MAC Address	
Serial Number	Display device information
Firmware Version	
USB Flash Drive	

3.15 Reset Device

Item	Settings	Description
Reset Setting	ON / OFF	Remain the keyboard network and CAM LIST, restore other settings to default values
Reset Setting and Data	ON / <u>OFF</u>	Clear all keyboard settings, including IP setting



VS-KB21/ VS-KB21N supports RS-232, RS-422 and IP control.

Supported control protocols include: VISCA, VISCA over IP

4.1 Port pin definition



4.2 How to Connect RS-232



1. Please refer to the RJ-45 to RS-232 and camera Mini Din RS-232 pin definitions to complete the cable connection

Note This is compatible with Lumens optional accessory VC-AC07, which can be connected via network cable.

- 2. Camera settings
- Protocol set to VISCA
- Control Port set to RS-232
- 3. Keyboard settings
- Press [SETTING] and select [Hot Key Camera]
- Select CAM1~7
- Configure the camera information.
- Protocol set to VISCA
- Press [Back] exit



4.3 How to Connect RS-422



- 1. Please refer to the RJ-45 to RS-422 and camera RS-422 pin definitions to complete the cable connection
- 2. Camera settings
- Protocol set to VISCA
- Control Port set to RS-422
- 3. Keyboard settings
- Press [SETTING] and select [Hot Key Camera]
- Select CAM1~7
- Configure the camera information.
- Protocol set to VISCA
- Press [Back] exit

4.4 How to Connect IP



- 1. Use network cables to connect keyboard and IP camera to the router
- 2. Set keyboard IP address
- Press [SETTING], select [Network]
- Type: Select STATIC or DHCP
- IP Address: If select STATIC, use Focus Near/Far to choose the location, input the IP address via numbers on the keyboard. Last, press ENTER to save and exit
- 3. Add a camera
- 1. Automatic Search



Note Only VS-KB21N support NDI Camera Information Search Mode Search Results √ Stream URL 1. VISCA Over IP 192.168.4.91:8556> > 5. VISCA Over IP 192,168,4,53 > SEARCH 2. ONVIF 6. VISCA Over IP 192.168.4.126 > ✓ RTSP Authentication > > ▶ 3. NDI 7. VISCA Over IP 192.168.4.15 > √ User Name ✓ Password 8. VISCA Over IP 192.168.4.91 > 192.168.4.129 🖥 Save 9. VISCA Over IP

- Press [SEARCH] then select search mode
- Select the target camera and configure it in the Camera Information section
- Click [Save] at the bottom and you can check the saved camera at [CAM List]

•

admin >

2. Manual Add



- Press [SETTING]> [Device Management]
- Add a new camera and configure it in the Camera Information section.
- Select the Protocol (VISCAIP/ONVIF), and set the camera IP address
- Press SAVE at the bottom.



Chapter 5 Web Interface

5.1 Connecting Camera to Network

Please find the two common connection methods below

1. Connecting via switch or router



2. To connect directly through network cable, the IP address of the keyboard and PC should be changed to set at the same network segment



5.2 Web Login

- 1. Open the browser, and enter the IP address of the keyboard in the address bar
- 2. Enter administrator's account and password

Note For the first-time login, please refer to <u>5.3.8 System- User Management</u> to change the default password





5.3 Web Page Functions

5.3.1 Login page

		Lumens®	
	_{錯誤} へ	Please enter user name	
	錯誤	Please enter password	
	and	Remember Me	
	錯	<mark>흹 English ▼ 錯誤 Login</mark>	
No	Item	Description	
1	User Name	Enter user login account (default: admin)	
2	User Password	Note For the first-time login, please refer to <u>5.3.8 System- User</u> Management to change the default password	
3	Remember Me	Save user name and password.	
4	Language	Supporting English/Traditional Chinese/Simplified Chinese	
5	Login Log in to the administrator screen on the website		

5.3.2 Hot Key

No Item			D	escription	
Administrator	сам 7	Camera ⊘Protocol: VISCA	@Address: 7	ØBaudrate: 9600	>
	сам 6	Camera ⊗Protocol: VISCA	@Address: 6	ØBaudrate: 9600	>
	сам 5	Camera ⊘Protocol: VISCA		ØBaudrate: 9600	>
About	сам 4	Camera ⊘Protocol: VISCA	@Address: 4	⊘Baudrate: 9600	>
✤ Firmware Update ✿ System	сам 3	Camera ØProtocol: VISCA	@Address: 3	ØBaudrate: 9600	>
Custom Command	сам 2	Camera ⊘Protocol: VISCA	@Address: 2	ØBaudrate: 9600	>
Device Management	сам 1	Camera ⊘Protocol: VISCA	@Address: 1	ØBaudrate: 9600	2 >
	Hot Key				Languag

1	CAM1~7	Support hot key camera 1~7		
2	Sotting page	Click to open the settings page.		
2		Following settings can be configured depending on the protocols.		
		* Alias Camera 1		
		Protocol VISCA ~		
		Address 1 ~		
		Baudrate 9600 ~		
21	VISCA			
2.1	100/1	Set Camera Address		
		Alias: Edit camera name		
		 Address: Set the address. 		
		 Baudrate: Set the Baudrate 		
		Reset Camera Address: When cameras are connected daisy chain,		
		you can set camera address. This action will send "address set"		
		command to the camera.		
		* Alias Camera 1		
		Protocol VISCA Over IP ~		
		+ IP Address 192 168 100 100		
		Stream URL rtsp://192.168.100.100:8556/h264		
		RTSP Auth		
		User Name admin		
		Password ···· 🗞		
		OIP Link		
		Manual Trigger		
2.2	VISCA Over IP	Oir Qty. 1		
		OIP Address		
		Source ID 1		
		Alias: Edit camera name		
		IP Address: Enter IP address Stream UDL: Diamlay the stream UDL		
		 Stream ORL: Display the stream ORL PTSD Auth: Enable/ Displa PTSD authentication 		
		Iser Name: Name for RTSP ∆uth		
		- Oser Marine. Marine for INTOF Autor ■ Password: Password for RTSP Δuth		
		OIP Link: Enable/ Disable the OIP Link		
		Manual Trigger: Enable/ Disable the manually sending command		
		function.		
		 OIP Qtv.; Choose the quantity from 1 to 7. 		
		• OIP Address: Click the button, then enter the IP address of OIP		
		device.		
		Source ID: Choose the source ID accordingly.		



		* Alias	Camera 1
2.2		Protocol	VISCA TCP ~
		* IP Address	192.168.100.100
		* Port	1259
		Stream URL	rtsp://192.168.100.100:8556/h264
		RTSP Auth	
2.0		User Name	admin
		Password	••••
		Alias: Ed	it camera name
		IP Addres	ss: Enter IP address
		Port: Set	ting range 1~65534
		 Stream L 	JRL: Display the stream URL
		RTSP Au	th: Enable/ Disable RTSP authentication
		User Nar	ne: Name for RTSP Auth
		Passwore	d: Password for RTSP Auth
	ONVIF	* Alias	Camera 1
		Protocol	ONVIF ~
		* IP Address	192.168.100.100
		Account	
		User Name	Please enter Onvif User name
		Password	Please enter Onvif Password &
		RTSP Auth	
		User Name	admin
		Password	<i></i>
2.4		OIP Lin	k 🔘
		Manual Trigge	
		OIP Qt	y. 1 ~
			OIP Address
		Source I	D 1
		 Alias: Edi IP Addres Account: camera im User Nar Password RTSP Au 	it camera name ss: Enter IP address Enable/ Disable ONVIF account. Support to preview(PVW) age when it enabled. ne: Name for ONVIF account d: Password for ONVIF account ith: Enable/ Disable RTSP authentication
		 User Nar 	ne: Name for RTSP Auth



 Password: Password for RTSP Auth OIP Link: Enable/ Disable the OIP Link Manual Trigger: Enable/ Disable the manually sending command function. OIP Qty.: Choose the quantity from 1 to 7. OIP Address: Click the button, then enter the IP address of OIP
device
 Source ID: Choose the source ID accordingly.



5.3.3 Device Management

Lumens [®] Device		Management		Language	
	Device Management		List Signored List		
2	Alias			Protocol	IP Address
-	custom command	VC-A51PN	J	VISCA Over IP	192.168.4.32
-	Network	VC-A61P		VISCA Over IP	192.168.4.39
*	Firmware Update	VC-TR60		ONVIF	192.168.4.138
•	System	VC-A51P		ONVIF	192.168.4.69
0	About				
	admin Administrator				Dia R + Add
No	No Item			Description	
1	Device List		Display the device list, and click on a device to edit.		
2	Ignored List		Display the ignored list, and click on a device to edit.		
3	+ Add		 Device List: Acco camera. Ignored List : Entonic Note If the came supported. 	rding to the protocols, enter relate er the IP address and protocol to era is with NDI protocol, the	ed information to add a add camera. [Add] function is not

5.3.4 Custom Command

Lumens	Custom Command			Language
🖽 Hot Key	Custom Command Edit	Edit		×
🚍 Device Management	Command 1	VISCA	Command 1	
🛠 Custom Command	Command 2	* Name	CMD 1	
	Command 3	CMD		
≁ Firmware Update		* CMD	HEA COMIMANO, E.G. 61 01 04 00 02 FF	
System				
1 About				
Description				
Supports 3 customized command.				
Click on the command to open the editing page for customizing commands.				



5.3.5 Network

Lumens	Network	Language
🖽 Hot Key		
Device Management	DHCP	
🛠 Custom Command	IP Address	192.168.4.67
🛃 Network	Netmask	255.255.255.0
✤ Firmware Update	Gateway	192.168.4.254
🗘 System	DNS1	192.168.1.211
About	DNS2	192.168.1.212
O admin		
Administrator		Apply
Description		
Keyboard controller network settings. When the DHCP function is disabled, Network settings can be edited.		

5.3.6 Firmware Update

Lumens [®]	Firmware Update	Language			
🖽 Hot Key					
E Device Management					
🛠 Custom Command	Version VYI101				
🛃 Network					
✤ Firmware Update					
🔅 System	Upgrade				
1 About					
	Drag the file here or Click to upload				
Description					
Display the current firmware version. User can upload a file to update the firmware. Note Update process takes approximately 3 minutes					
Note Do not operate or power off the device during the update to prevent firmware update failure.					



5.3.7 System- Configuration File

Lumens	System	Language		
🖽 Hot Key	다 Configuration File 은 User Management			
E Device Management	Import Export			
🔀 Custom Command	import Export			
Ta Network				
Scheric Street				
🌣 System	System			
About				
Description				
Save the configuration a	Save the configuration as a file. User can import/ export the configuration file.			

5.3.8 System-User Management

Lumens [®]	System			Language
🖽 Hot Key	Configuration File	은 User Management		
🚆 Device Management				
🛠 Custom Command	User Name	Pas	sword	Role
🛃 Network	admin	***	****	Administrator
✤ Firmware Update				
🖨 System				
1 About				
o admin				+ Add
Administrator				
		Description		
ld/ Edit/ Delete user a	account			
The default adminis	trator cannot be de	eleted.		
Support up to 8 use	r accounts (admin	istrator + common ι	isers).	
Supporting 4 - 32 cl	naracters for user i	name and password	ł	
Characters should b	be English letters o	or numbers. Chinese	e and special symbols a	re not allowed.
User permissions:				
Туре	Admi	in Common		
Language	V	V		
Web settings	V	Х		
User Managemer	nt V	Х		



5.3.9 About





6.1 Call the camera

- 6.1.1 Use the number keyboard to call the camera
 - 1. Key in the camera number to be called via the keyboard
 - 2. Press the "CAM" button



6.2 Setup/call/cancel preset position.

- 6.2.1 Save the preset position
 - 1. Relocate the camera to the desired position
 - 2. Enter the desired preset position number, then press the SAVE button to save



6.2.2 Call the preset position

- 1. Key in the desired preset position number via keyboard
- 2. Press "CALL" button





6.3 Set the camera OSD menu via the keyboard

- 1. Press the "CAM MENU" button on the VS-KB21 to display the camera OSD menu on the HDMI or SDI monitor.
- 2. Configure the camera OSD menu via the PTZ joystick.
 - Cam Menu: Call up or cancel the menu / Return to the previous page in the menu.
 - Joystick button: Enter the selected option by pressing the button.
 - Joystick up / down: Navigate through different options in the OSD menu.
 - Joystick Left / Right: Adjust the value of the selected option.





This Chapter describes questions frequently asked during the use of VS-KB21/ VS-KB21N and suggests methods and solutions.

No.	Problems	Solutions	
1	After plugging in the power supply, VS-KB21/ VS-KB21N power is not on	 Please check whether the power button on the back is pressed down correctly If POE is used, please make sure the Ethernet network cable is correctly connected to the power port of the POE switch 	
2	VS-KB21/ VS-KB21N can't control the camera through RS-232/ RS-422	 Please confirm the port pin connection is correct (RS-232/422) Please confirm if the camera OSD is correctly switched to RS-232/RS-4 and the baud rate setting is the same as the controller. Please confirm whether the MENU button on the keyboard is pressed down by mistake, causing the camera OSD menu to open and the camer unable to be controlled 	
3	Cannot use the keyboard buttons to change the image settings or focus	Please confirm the LOCK button is set in "LOCK" mode	

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



<u>Lumens</u>