PKC3000 PTZ CAMERA JOYSTICK CONTROLLER









USING THE UNIT SAFELY

Before using this unit, please read below warning and precautions which provide important information concerning the proper operation of the unit. Besides, to assure that you have gained a good grasp of every feature of your new unit, read below manual. This manual should be saved and kept on hand for further convenient reference.



Warning And Cautions

※ To avoid falling or damage, please do not place this unit on an unstable cart, stand, or table.

- ※ Operate unit only on the specified supply voltage.
- * Disconnect power cord by connector only. Do not pull on cable portion.

※ Do not place or drop heavy or sharp-edged objects on power cord. A damaged cord can cause fire or electrical shock hazards. Regularly check power cord for excessive wear or damage to avoid possible fire / electrical hazards.

※ Do not operate unit in hazardous or potentially explosive atmospheres. Doing so could result in fire, explosion, or other dangerous results.

※ Do not use this unit in or near water.

※ Do not allow liquids, metal pieces, or other foreign materials to enter the unit.

※ Handle with care to avoid shocks in transit. Shocks may cause malfunction. When you need to transport the unit, use the original packing materials or alternate adequate packing.

X Do not remove covers, panels, casing, or access circuitry with power applied to the unit! Turn power off and disconnect power cord prior to removal. Internal servicing / adjustment of unit should only be performed by qualified personnel.

※ Turn off the unit if an abnormality or malfunction occurs. Disconnect everything before moving the unit.

Note: due to constant effort to improve products and product features, specifications may change without notice.

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1.BRIEF INTRODUCTION

1.1 Overview

PKC3000 is a professional PTZ camera controller that supports RS-422 / RS-485 / RS-232 / IP control, connects up to 255 cameras, provides the ability to control aperture, focus, white balance, exposure, and real-time speed control, and provides more refined camera settings in controlling PTZ cameras, widely used in education, conference, remote medical, medical services and many other industry sectors.



1.2 Main Features

- Cross protocol mix-control with IP/ RS-422/ RS-485/ RS-232
- Control protocol by VISCA, VISCA-Over-IP, VISCA-SONY, Onvif and Pelco P&D
- Control up to total of 255 IP cameras on a single network
- 6 camera quick call up keys, and 6 user-assignable keys to quickly invoke shortcut functions
- Quick control of exposure, shutter speed, iris, white balance, focus, pan/tilt speed, zoom speed

- Tactile feel with professional rocker/seesaw switch for zoom control
- Automatically search available IP cameras in a network and assign IP addresses easily
- Multi-color key illumination indicator directs operation to specific functions
- Tally GPIO output for indicating the camera be currently controlled
- Metal housing with 2.2 inch LCD display, 4D joystick, 5 rotation button
- Supports both POE and 12V DC power supplies

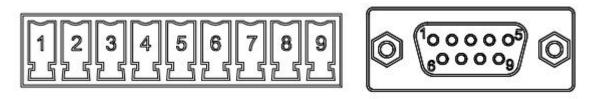
2.INTERFACES

2.1 Interfaces



1	Power Switch
2	DC 12V Power
3	TALLY GPIO
4	RS232 (PELCO-D, PELCO-P, VISCA)
5	RS-422/485 (PELCO-D, PELCO-P, VISCA)
6	IP (ONVIF, VISCA Over IP, VISCA-SONY)

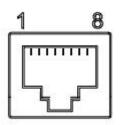
2.2 Interface Definition

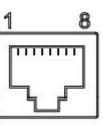


TALLY



TALLY	Function	RS-232	Function
1	Camera1	1	n/c
2	Camera2	2	RX
3	Camera3	3	ТХ
4	Camera4	4	n/c
5	Camera5	5	GND
6	Camera6	6	n/c
7	Camera7	7	n/c
8	GND	8	n/c
9	GND	9	n/c





RS-422/485

IP

RS-422/485	Function	IP	Function	Color
1(RS-485)	TX+	1	TX+	Orange/White
2(RS-485)	TX-	2	TX-	Orange
3	RX+	3	RX+	Green/White
4	n/c	4	n/c	Blue
5	n/c	5	n/c	Blue/White
6	RX-	6	RX-	Green
7	n/c	7	n/c	Brown/White
8	n/c	8	n/c	Brown

2.3 Specification

	Interfaces	IP(RJ45), RS-232, RS-485/RS-422	
CONNECTIONS	Control Protocol	IP Protocol: ONVIF, VISCA Over IP, VISCA-SONY Serial Protocol: PELCO-D, PELCO-P, VISCA	
	Serial Baud Rate	2400, 4800, 9600, 19200, 38400 bps	
	Display	2.2 inch LCD	
	Joystick	4D joystick (Pan/Tilt/Zoom/Lock)	
	Camera shortcut	6 channel	
USER INTERFACES	Keyboard	User-assignable keys×6, Rotation button×5, Rocker×1,Seesaw×1	
	Camera Address	Up to 255	
	Preset	Up to 255 Note: 95 preset bit part of the camera for menu call out	
DOWED	Power	PoE/ DC 12V	
POWER	Power Consumption	PoE: 5W, DC: 5W	
ENVIRONMENT	Working Temperature	-20℃~60℃	
	Storage Temperature	-40°C~80°C	
DIMENSION	Dimension(LWD)	270mm(L)×145mm(W)×29.5mm(H)	
DIVIENSION	Weight	1181g	

3.CONTROL PANEL

3.1 Description



1	Camera Quick Access Control (Aperture/exposure/white balance/focus function settings)
2	6 Camera Call Up& User-assignable keys (Default 6-camera quick connect)
3	Seesaw button (Zoom control)
4	Menu knob (Use for pan/tilt speed, zoom speed control and PTZ camera menu settings) Non-menu status knob to adjust the head rate
5	Camera address and position setting
6	Multi-function digital panel (Inputting numbers, letters, etc.)
7	PTZ joystick (Controlling camera motion action)
8	2.2 inch LCD display

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3.2 Keyboard Button

Camera Quick Access Control

Press the AUTO EXPOSURE button to turn on automatic exposure. In the non-automatic exposure mode, long press the AUTO EXPOSURE button to toggle the IRIS knob to adjust the IRIS and Shutter parameters. After switching to IRIS mode, turn the IRIS knob to manually adjust the aperture value of the camera; after switching to Shutter mode, turn the IRIS knob to manually adjust the shutter. The status is displayed at the bottom right of the screen.

Press the AUTO WB button to turn on automatic white balance. Press the ONE PUSH WB button, the camera enters the one-touch white balance mode.

Turn the R knob to manually adjust the camera red gain and turn the B knob to manually adjust the camera blue gain.and the status is displayed at the bottom right of the screen.

Press the AUTO AF button to turn on the camera autofocus, and press the ONE PUSH AF button to put the camera into one-touch focus mode.

You can manually adjust the camera focus. and the status is displayed at the bottom right of the screen.

■ 6 Camera Call Up& User-assignable keys

Press the shortcut keys F1-F6 to quickly call the corresponding camera, you can also customize the key function according to user requirements, the specific function is set inside the menu.



Press the seesaw T button to pull the camera focus farther, and press the seesaw W button to pull the camera focus closer, in addition, you can also use the PTZ joystick to control the camera zoom.and the status is displayed at the bottom right of the screen.







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Menu knob

Press the SETUP button to enter the controller menu .The menu options can be selected by the knob. In non-menu mode, the rotary knob is used to control the PTZ head rate and is displayed in the lower right of the screen.Press to adjust the rate of PT and Z. Each camera automatically records the adjusted PTZ rate and the saved rate can be recalled directly the next time it is connected.

Multi-function digital panel

The numeric panel allows you to enter numbers, letters, etc. The following keys are multiple use buttons.

"<" (HOME key): When the camera menu is open, long press the key to return to the starting position, short press to return to the previous level menu. When entering letters, short press to delete the previous character.

"0 key" (BLC key): Short press to enter the number 0, long press the key to turn on the Backlight compensation.

"←" (MENU key): Long press the key to call up the camera's menu, short press to enter the next level menu. When entering letters, short press to switch case.

Camera address and position setting

SEARCH: Controller's camera search

INQUIRY: Controller's camera inquiry, 255 CAM queries, parameter modifications, or manual camera additions.

CAM: Recall the specified camera, press the number of the specified camera on the panel, and then press the button to switch the camera.

PRESET: Camera set preset position, input the number on the panel, then press the PRESET button to store the camera position.

RESET: The camera clears the preset position, input the number on the panel, and then press RESET to clear the camera preset position

CALL: Recall the preset position, input the number on the panel, then press CALL button, then the camera recalls the specified preset position.







PTZ CAMERA **PKC3000** JOYSTICK CONTROLLER Screen INQUIRY Display of menu settings, display of status page. ID Name Protocol Username Password Call Exit **PTZ joystick** Used to control camera motion . Used for menu control when calling up the camera menu: Move the PTZ joystick up and down to select menu options Move the PTZ joystick left and right to adjust and modify menu values (Suitable for PTZ1270 series) Rotate the PTZ joystick left and right to call out the upper and lower sub-menus, left to return to the previous level menu, right to enter the next level menu. (Suitable to PTZ1270 series) The button on the PTZ joystick is the Locked button, which locks the operation.

4.MEMU SETTINGS

4.1 Status

The status page displays the camera address, camera name, control protocol and protocol related information (IP Address, baud rate, UDP port and other information). Under the status page, turn the knob to control the PTZ camera speed. The status page as following:

STA	ATUS		STATUS
[0]	Camera 0	[0]	Camera 0
Protocol	VISCA-IP	Protocol	VISCA-IP
IP	0.0.00	IP	0.0.0
UDP Port	52381	UDP Port	52381
			PTZ Speed [100%]

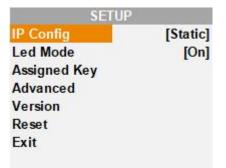
In addition, the information of the number entered will be displayed in the lower left corner of the status page, and the information of the operation will be displayed in the lower right corner.

For example, if you enter the number 10, the number 10 will be displayed in the lower left corner, and when you press CALL button, the information of that operation will be displayed in the lower right corner, as shown in the figure.

STA	ATUS		STATUS
[0]	Camera 0	[0]	Camera 0
Protocol	VISCA-IP	Protocol	VISCA-IP
IP	0.0.00	IP	0.0.00
UDP Port	52381	UDP Port	52381
[10]			Call Position [10]

4.2 Setup

Press SETUP on the button panel to enter the SETUP menu.



4.2.1 IP Config

Select the IP Config option and press the menu knob to configure the IP of the controller.

• Network

There are two ways to acquire the IP: Dynamic (IP configured by router) and Static (set IP freely by yourself). Select the method you need by knob menu. The default setting is Static, and the default IP address is <u>192.168.5.177</u>.

Dynamic: Connecting the PTZ camera with a router with DHCP features, then it will auto obtain an IP address automatically. Make sure that PTZ camera and PTZ controller are in the same local area network.

Static: Select static IP acquire method when the PTZ camera is without DHCP. Connect the PTZ camera controller and PTZ camera through the network cable, and set the IP address of PTZ camera and PTZ camera controller in the same network segment.

S	ETUP	S	ETUP
DHCP	[On]	DHCP	[Off]
IP	192.168.5.177	IP	192.168.5.177
Netmask	255.255.255.0	Netmask	255.255.255.0
Gateway	192.168.5.1	Gateway	192.168.5.1
Exit		Exit	
			\sim

Netmask

Set the NetMask. The default setting is 255.255.255.0.

S	ETUP
DHCP	[On]
IP	192.168.5.177
Netmask	255.255.255.0
Gateway Exit	192.168.5.1

• Gateway

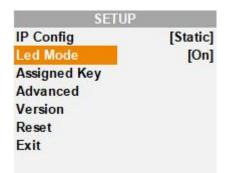
Set the GateWay according to current IP address. The default setting is <u>192.168.5.1.</u>

When the network setup is complete, exit the menu to save the configuration automatically.

DHCP	[On]
IP	192.168.5.177
Netmask	255.255.255.0
Gateway	192.168.5.1
Exit	

4.2.2 LED Setting

Turn on the LED mode, the key light on the panel is always on, turn off the LED mode, the key light on the panel is off.



4.2.3 Assigned Key

Assigned keys can be configured as shortcuts to activate camera functions.Long press the F button to quickly execute the corresponding function of the configuration, short press to quickly connect the corresponding camera.

From the keyboard settings menu, move the cursor to the specified "Key" field, select the shortcut key to be configured and click on the rotary speed knob to apply the function to the shortcut key.

F1, F2, F3, F4, F5 and F6 can be configured as shortcuts, with functions such as flipping the camera image up and down and left and right, and freezing the camera screen, etc. And the CMD1-4 supports four user-defined Camera control command.

Enter the CMD settings, users can enter the Camera control command according to the actual needs, to achieve the quick execution of functions that are not available on the panel, it supports the input of commands from 0-F, and the length of the input command is no more than 12 characters (6 HEX).

Note: Only ports 52381 and 1259 are sent for custom command network control, camera function commands can be obtained from the camera manual or from the manufacturer.

SETU	P		SETUP
F1	[CMD 5]	CMD1	8101040B02FF
F2	[Cam 2]	CMD2	8101040B03FF
F3	[Cam 3]	CMD3	8101060605FF
F4	[Flip]	CMD4	8101060604FF
F5	[Freeze]	ENTER	
F6	[Mute]	RETURN	
CMD Setting		Exit	
Exit			

Assigned key can be assigned to camera features from following:

1	Cam N	Quick call camera N
2	Home	Returning the camera to the start position
3	P/T Reset	Reset the selected camera
4	Power	Power off the selected camera
5	Mute	Mute the audio from the selected camera
6	Freeze	Freeze the image of the selected camera
7	Flip	Flip the image of the selected camera (Flip Up and down)
8	LR Reverse	Invert the L/R (pan direction) of the selected camera (Flip left and right)
9	CMD1-4	Customised camera control command settings

4.2.4 Advanced

Entering Advanced settings from the menu to setting the Track loop ,Quick call, Theme, Beep, PT inverse and Fn/CAM Key.

PKC3000			
SETUR)	SET	UP
IP Config	[Static]	Track Loop	[On]
Led Mode	[On]	Quick Call	[Off]
Assigned Key		Theme	[color 1]
Advanced		Beep	[Off]
Version		PT Inverse	[Off]
Reset		Fn/CAM Key	
Exit		Exit	

• Track Loop

When the Track loop is on, the camera will play back the recorded track.

When the Track loop is off, the camera will only play back the looped track once.

The track recording procedure is described in (4.6)

SETL	IP
Track Loop	[On]
Quick Call	[Off]
Theme	[color 1]
Beep	[Off]
PT Inverse	[Off]
Fn/CAM Key	
Exit	

Quick Call

Quickly call camera preset positions.

When you turn on "Quick Call", you can directly and quickly recall to the preset positions by simply pressing he keypad number.

If you turn off "Quick Call", pressing the preset number will not recall to the preset positions, you need to select the preset number and then press "CALL" or enter key to reach the recall preset bit.

JP
[On]
[Off]
[color 1]
[Off]
[Off]

• Theme

Entering SETUP settings from the menu to switch the screen skin style. There are four styles to choose from Color1/Color2/Color3/Color4.

PTZ CAMERA

JOYSTICK CONTROLLE

Р
[On]
[Off]
[color 1]
[Off]
[Off]

Beep

Enter the Beep settings from the menu to turn the key beep on or off.

Р
[On]
[Off]
[color 1]
[Off]
[Off]

• PT Inverse

Opening the PT Inverse menu reverses the PT's joystick operation.

SETU	IP
Track Loop	[On]
Quick Call	[Off]
Theme	[color 1]
Beep	[Off]
PT Inverse	[On]
Fn/CAM Key	
Exit	
LAIL	

• Fn/CAM Key

Enter Fn/CAM key menu can set F1, F2, F3, F4, F5 and F6 shortcut keys to CAM Mode or FUNCTION Mode.

In the CAM mode, short press the corresponding F key on the panel will connecting camera, and long press the corresponding F key on the panel will quickly call up the shortcut function set in Assigned key (4.2.3).

In the FUNTION mode, short press the corresponding F key on the panel will quickly call up the shortcut function set in Assigned key (4.2.3), long press the corresponding F key on the panel will connecting camera.

F1	[Funtion]
F2	[CAM]
F3	[CAM]
F4	[CAM]
F5	[CAM]
F6	[CAM]
Exit	

4.2.5 Version

Enter the menu to check the APP version and MCU version of the PTZ camera controller.

APP version available via http://192.168.5.177:1770 website update.

SETUP		SET	TUP
IP Config	[Static]	APP	V1.0
Led Mode	[On]	MCU	V1.0
Assigned Key		Exit	
Advanced		8	
Version			
Reset			
Exit			

4.2.6 Reset

Clear all keyboard settings, and restore factory default.

NOTE: Don't move the Joystick nor the Zooming Seesaw and leave them at original position while the FACTORY DEFAULT is processing.

Select Exit and press the menu knob to exit this menu page and return to the status page.



4.3 Search

The controller supports both VISCA-IP, VISCA-SONY and ONVIF protocols to search cameras, you need to configure the network first. Confirm that the camera and the controller in the same LAN segment, such as the camera IP 192.168.5.163, the controller IP 192.168.5.177, only in the same network segment to achieve the search function, press the SEARCH button on the panel and select VISCA-IP, VISCA-SONY, ONVIF protocol through the menu. Select the protocol according to the situation and start the search.

When the search is complete, all cameras searched will be displayed, click on the corresponding IP to enter the camera corresponding camera settings, and then click "Save" to save.

SEARCH	S	EARCH
192.168.123.226	VISCA-IP	192.168.123.226
192.168.123.25	Add to ID	[2]
Exit	Port	52381
	Name	Camera 1
	Save	
	Call	
	Exit	
	192.168.123.226 192.168.123.25	192.168.123.226 VISCA-IP 192.168.123.25 Add to ID Exit Port Name Save Call

If the search result shows none, it means that the camera is not found.

SEARCH	SEARCH		
Searching	None Exit		

Note: The auto search function only searches the default port number of the protocol, VISCA-IP control port is 52381, if the camera control port number is not the default port may not be automatically searched, you need to manually modify the addition through the INQUIRY key.

4.4 Inquiry And Manual Settings

The controller stores a total of 255 cameras (1~255). By pressing the INQUIRY button on the status page, you can query the information of any camera on the INQUIRY query page, or enter a number and click the "INQUIRY" button to query the information of the camera with the corresponding number address.

In addition, the INQUIRY page allows you to easily change the camera's configuration, including: camera name, camera protocol, camera IP, baudrate, UDP port, CAM addr, user name, password, etc. The PELCO-D, PELCO-P and VISCA protocols have a baudrate configuration and port selection configuration, CAM Addr menu can configure the camera address, after selection, press "CALL" key to complete the connection. The ONVIF, VISCA-IP, VISCA-SONY protocols have an IP configuration. ONVIF requires both a user name and password configuration (need to match the camera).

The user name and password used in the ONVIF protocol can be changed.Press once on the number panel and enter the corresponding number, press twice or more times in a row to enter the corresponding letter. Press once on the panel to input the number and twice or more times to input the letter. Press the Enter key to switch the letter case.

INQ	UIRY	INQ	UIRY	INC	UIRY
ID	[0]	ID	[0]	ID	[0]
Name	Camera 0	Name	Camera 0	Name	Camera 0
Protocol	[VISCA-IP]	Protocol	[VISCA]	Protocol	[ONVIF]
IP	0.0.0.0	BaudRate	9600	IP	0.0.0.0
UDP Port	52381	Port	[RS232]	User	admin
		CAM Addr	[1]	PWD	*****
Call		Call		Call	
Exit		Exit		Exit	

When the camera cannot be searched or the connection information of the camera needs to be added manually, it can be achieved by INQUIRY key. First, select the serial number of the camera that needs to be modified or added, the status page will show that the connection timeout is ignored, and then press INQUIRY key to modify the connection information to achieve the operation of adding the camera manually.

4.5 Camera Position Setting

• Setting / Creating Presets:

Move the camera to the desired position, Enter the desired preset number on the alphanumeric keyboard, such as "77" and then press the Preset button to save the preset.

ST/	ATUS		STATUS
[0]	Camera 0	[0]	Camera 0
Protocol	VISCA-IP	Protocol	VISCA-IP
IP	0.0.0	IP	0.0.0
UDP Port	52381	UDP Port	52381
[77]			Set Position [77]

• Calling Presets:

Enter the desired preset number on the alphanumeric keyboard such as "77", short press the Call button or the Enter key. When "Quick call" is turn on, press the numeric keys 0-9 to call the 10 preset positions directly.

STA	ATUS		STATUS
[0]	Camera 0	[0]	Camera 0
Protocol	VISCA-IP	Protocol	VISCA-IP
IP	0.0.0	IP	0.0.0
UDP Port	52381	UDP Port	52381
[77]			Call Position [77]

• Resetting / Clearing Presets:

Enter the number of the preset you would like to clear such as "77", and then Press the Reset button.

ST/	ATUS	STATUS		
[0]	Camera 0	[0]	Camera 0	
Protocol	VISCA-IP	Protocol	VISCA-IP	
IP	0.0.0	IP	0.0.0	
UDP Port	52381	UDP Port	52381	
[77]			Track deleted [77]	

Note: The Quick Call function needs to be off when setting and clearing preset positions.

4.6 Track Recording Setting

• Setting A Track Recording:

On the alphanumeric keyboard, enter the preset number of the desired track, such as "11", and then long press the "PRESET" button to start recording the camera track, after recording, press the "PRESET" button to Save the preset and finish recording.

S	STATUS		STATUS	Ĵ	STATUS
[0]	Camera 0	[0]	Camera 0	[0]	Camera 0
Protocol	VISCA-IP	Protocol	VISCA-IP	Protocol	VISCA-IP
IP	0.0.0	IP	0.0.0	IP	0.0.0
UDP Port	52381	UDP Port	52381	UDP Port	52381
[11]	Going to preset		Track recording		Recording complete

• Playback Track Recording:

Enter the preset number of the track on the alphanumeric keyboard, such as "11", and then long press the "CALL" button to playback the camera track number "11". You can set the track loop from the menu. If you turn on the track loop, the camera will repeat the recorded track, if you turn off the record loop, the camera will only play back the looped track once.

ST/	ATUS		STATUS	S	TATUS
[0]	Camera 0	[0]	Camera 0	[0]	Camera 0
Protocol	VISCA-IP	Protocol	VISCA-IP	Protocol	VISCA-IP
IP	0.0.0	IP	0.0.0	IP	0.0.0
UDP Port	52381	UDP Port	52381	UDP Port	52381
[11]			Track playback	[11]	Stop playback

During the playback of the recorded track, moving the joystick or pressing the seesaw button will immediately stop the playback of the recorded track. Locking the operation via the lock button on the joystick prevents the track playback interrupted by misuse.

• Reset/Clear Track Recording:

Enter the track number "11" and press and hold the "RESET" button to reset/clear the track recording.

ST/	ATUS	S	TATUS
[0]	Camera 0	[0]	Camera 0
Protocol	VISCA-IP	Protocol	VISCA-IP
IP	0.0.0	IP	0.0.0
UDP Port	52381	UDP Port	52381
[11]		[11]	Track deleted

5.WEB PAGE CONTROL

Log in to the controller's IP address in your browser, the default account is: admin, Password: admin, after logging in to the web page, you can perform camera management and system settings in the web page.

• Camera Management:

In the Camera Add&Search field, select VISCA-IP, ONVIF protocol according to the situation and click SEARCH button to start the search. When the search is complete, all cameras searched will be displayed.

Camera Add&Search	VIS	CA-IP V Q Search	+Manual	Camera Mana	igement			
Serial	Address	Port	Control	Serial	Protocol	Address	Custom Name	Control
0	192.168.123.20	1259	œ	2	VISCA-IP	192.168.123.120	Camera	ľŌ
	192.168.123.120	1259	Œ	3	VISCA-IP	192.168.123.121	Camera	ßů
2	192.168.123.121	1259	Œ	4	VISCA-IP	192.168.123.25	Camera	ľŪ
			< 1 >					< 1

Click "add to list", a manual window will pop up, the manual page allows you to easily change the camera's ID, name, protocol etc. After selecting and then clicking on "Submit", the camera will be added successfully. Successfully added cameras will be displayed in the camera management window on the right.

Manual					
ID	1		Name		
Protocol	VISCA-IP	\sim	Address	192.168.123.20	
IP Port	1259				
				Cancel Submi	i .

• System Setting:

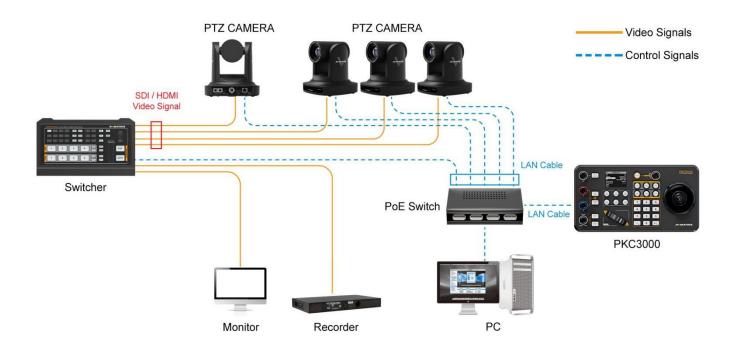
In the system settings, users can set up the network configuration, change the login password and view system version information of the PTZ controller and upgrade version.

🕞 Camera Management	home / System Sett	ing				
System Setting						
	Network Settin	ng	User setting		System Mainte	enance
	DHCP	010	Username	admin	Device Name	AVKANS
	Mac Address	e6:11:3d:0bre7:ac	Old Password		Dash Ver.	
	IP Address		New Password		Hardware Ver.	V1.93D
	Subnet Mask		Confirm		Firmware Ver.	V1.9
	Gateway			Save	Upgrade	258rowse Upgrate
		Save				Export Resume Reboot

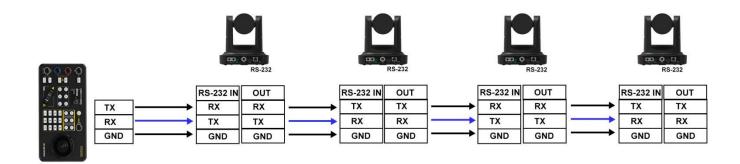
Click "Browse" to add the upgrade software, then click "Upgrade" to start the upgrade, and please do not turn off the controller during the upgrade process, after the upgrade is successful, please restart the controller manually.



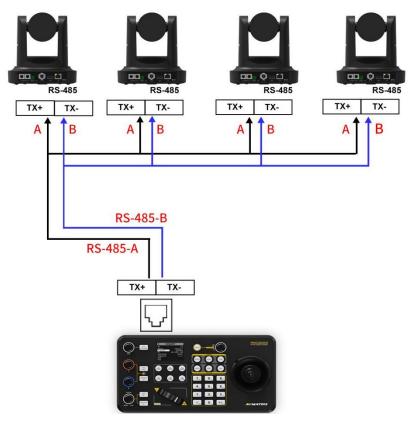
6.PTZ CAMERA CONTROLLER CONNECTION



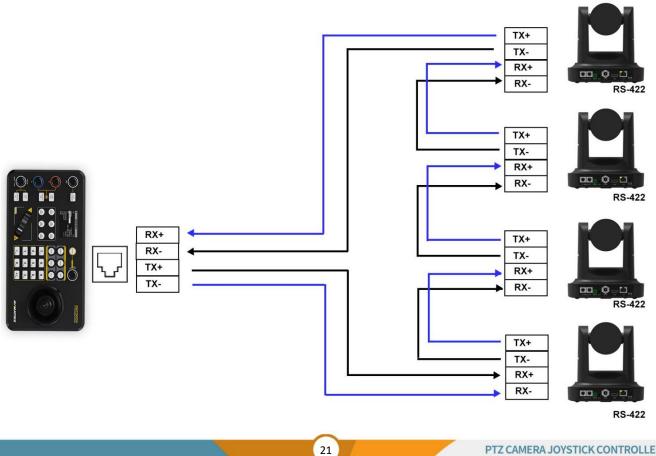
7.RS-232 CONNECTION DIAGRAM



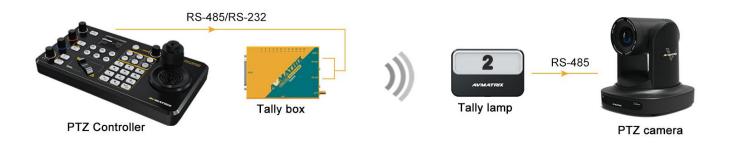
8. RS-485 CONNECTION DIAGRAM



9. RS-422 CONNECTION DIAGRAM



10.PTZ CAMERA REMOTE CONTROL



Wireless remote control of the PTZ camera can be achieved with the TS3019's serial pass-through function.

11.ACCESSORIES

This PTZ camera controller is equipped with a 12V power adapter and a 9 PIN GPIO connector.

