

AVIPAS AV-3104SE 4D Serial Joystick Keyboard Controller User Manual

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AVIPAS AV-3104SE 4D Serial Joystick Keyboard Controller



Product Overview

Notice

- Please read this manual thoroughly before use, and keep it handy for future reference.
- Do not use or store AV-3104SE in the environment where the product is exposed to rainwater, moisture vapor, salty water, oil, etc.
- Do not place the controller close to any exothermic object for a long time.

Key features

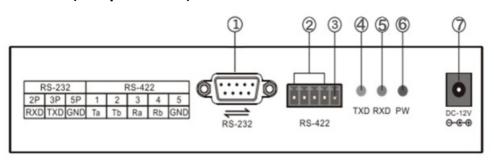
- · All metal housing, Joystick and button control
- · LCD display for real-time working status
- Control for up to 255 cameras
- RS232, RS422 and RS485 serial control interface
- PELCO-D, PELCO-P and VISCA protocols
- 4D joystick for Pan/ Tilt/ Zoom/Lock(unlock) PTZ movements
- · Variable speed control of Pan, Tilt, Zoom and Focus
- Auto/Manual for Focus and Exposure
- Selectable button sound on/off.
- · Presets save, recall and clear
- OSD (on screen menu display) ON/OFF button
- BLC (Backlight compensation) ON/OFF button
- Max communication distance is up to 3940ft (1200m, w/ 0.5mm twisted pair cable).

Items included

Please check the package once you get the keyboard if all parts are included and are in good condition.

4-axis joystick keyboard controller	1pc
5 POS TERM Block plug, Female socket	1pc
DC-12V power adapter	1pc
RS232 cable(DB9 Female to 8pin Mini-DIN Male)	1pc
User manual	1pc
Warranty card	1pc

Interface illustrations (rear panel view)



	Port	Physical interface	Description	
			RS232 DB9 to camera RS2 included RS232 cable	232 8-pin Mini-DIN with
			1 2 3 4 5	
	9-pin DB9 RS232	KB RS232 9-pin DB9	Camera 8pin Mini-DIN	
	RS232		RXD Pin 2	TXD Pin 3
1			TXD Pin 3	RXD Pin 5
		GND Pin 5	GND Pin 4	

			For RS422 or RS485 connection with the camera. Please r efer to the table below RS422 KB controller Camera Ta- RXD IN- Tb- RXD IN+ Ra- TXD IN- Rb- TXD IN+	
2	RS-422/ RS485	RS422/RS485 connection RS 422 Full duplex RS485 Half-d uplex	KB controller Ta- RXD IN- Tb- RXD IN+ Ra- TXD IN- Rb- TXD IN+ RS485 KB c ontrol ler Ta- RS485+ Tb- RS485-	
3	Ground	Ground (G)	Signal control line to ground	
4	PW	Power indicator light	The light is in steady red when keyboard is working	
5	TXD	Sending data indicator light	Flashing in green when the unit is sending data	
6	RXD	Receiving data indicator light	Flashing in green when the unit is receiving data	
7	DC-12V	Power jack	DC12V power input	

Note: for more details on how to control multi cameras, please visit https://www.avipas.com/support

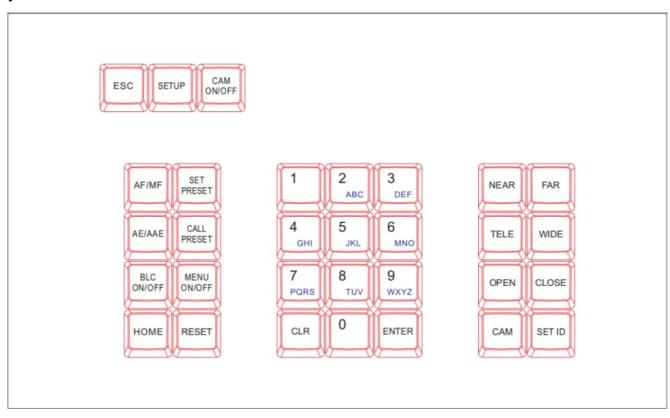
Technical Specifications

Communication interface	RS232 Full duplex, RS422 Full duplex, RS485 Half-duplex	
Baud Rate	2400bps, 4800bps, 9600bps, 19200bps	
Protocol	VISCA, PELCO-D, PELCO-P	
Joystick	4D control: up/ down/ left/ right/twist/push down	
Maximum cameras	255 (via PELCO), 7 via VISCA	
	RS-232: 50 feet (15 Meters)	
Recommended max cable distance	RS-485: 3,937 feet (1200 Meters)	
necommended max cable distance	RS-422: 3,937 feet (1200 Meters)	
Display	Backlight LCD screen	
Input voltage	DC12V ±10%	
Power consumption	6W max	
Working Temperature	-10°C~50°C	
Working Humidity	≦90%RH (No frosting)	
Net weight	5.5LB	
Dimension	13*7*4 inch (320*179.3*106.4mm)	

Note: 4D joystick for Pan, Tilt, Zoom(twist) and Lock/unlock PTZ movement. The button on the top of joystick, Push down-> "LOCK", push again-> "Unlock"

Controller Operations

Keyboard



- ESC Exit or back to the previous menu.
- SETUP Parameter settings: press and hold the button for 3sec to enter the KBD setting page.
- CAM ON/OFF Camera power on/off
- AF/MF Auto/ Manual focus (Manually focus adjustment is done by NEAR / FAR
- SET PRESET Preset setting: to set a preset position, use key combination SET PRESET + number keys 0~255 + ENTER.
- CALL PRESET Call preset: to call a preset position, use key combination CALL PRESET + number keys 0~255 + ENTER.
- AE/AAE Auto aperture / Aperture priority: when choose Aperture priority, aperture adjustment is done by OPEN / CLOSE.
- BLC ON/OFF Back light compensation on/off.
- · MENU ON/OFF keyboard controller menu on/off.
- HOME HOME position.
- RESET Pan/tilt position reset.
- · CLR Clear current input.
- 0 ~ 9 Number keys.
- ENTER Confirmation key: confirm the current input.
- NEAR Focus in: manually focus in to make far distance objects clearer.
- FAR Focus out: manually focus out to make near distance objects clearer.
- TELE Narrow-angle button/ Zoom-in: reduce the field of view, zoom in to the target object.
- WIDE Wide-angle button/ Zoom out: expand the field of view, zoom out from the target object.
- OPEN Aperture +: Increase aperture. When the aperture is at its maximum, the image will display in full white. When the LCD shows the camera menu, press OPEN will enter the selected submenu.
- CLOSE Aperture -: Reduce aperture. When the aperture is at its minimum, the image will display in full black. When the LCD shows the camera menu, press CLOSE will go back to the previous menu.
- CAM Select the address of a target device (decoder or camera). Use with key combination number keys
 0~255 + ENTER.
- SET ID Set ID: press and hold the button for 3sec to set the cascading camera protocol address.

LCD screen display

All operations will be displayed on the LCD screen. If there is no operation or movement for 30 sec, the controller will enter the power saving mode (with the lowest backlight), with the current status displayed.

Joystick control

Operation	Output Control	Operation	Output Control	Operation	Output Control
8	UP	8	Down	000	Left
Operation	Output Control	Operation	Output Control	Operation	Output Control
00	Right	(30)	Zoom In	(GCG)	Zoom Out

Push the button on top to "lock" the PTZ movement and Push again to "unlock".

Keyboard Setups

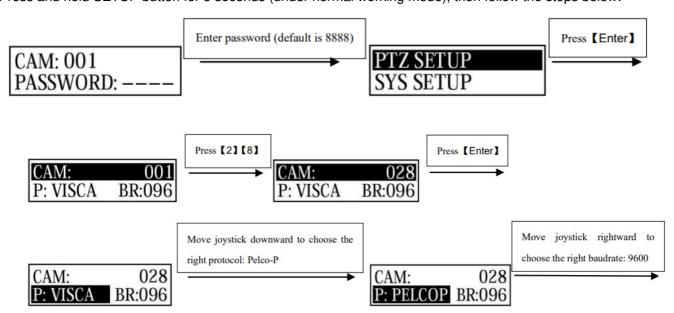
PTZ setup

Example used in the following section:

• Camera Address (Camera ID): 28

Protocol used: Pelco-PBaud rate: 9600 bps

Press and hold SETUP button for 3 seconds (under normal working mode), then follow the steps below:



Press ENTER to confirm the selected baud rate. There will be a 1-sec beep sound once the setup is complete. Press ESC 3 times to exit the setup mode and return to normal working mode.

Note: if all the devices/ cameras are to be set to the same protocol and baud rate, please follow the steps as follows:



Enter the setup page rate.

and choose the corresponding protocol and baud

Press ENTER to confirm. All the devices with an address of 0-255 will be set to the same protocol and baud rate.

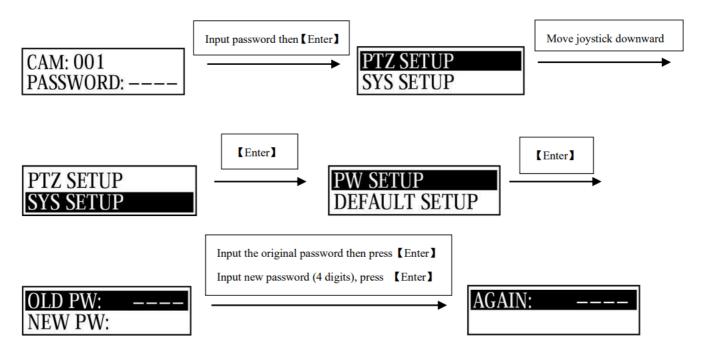
System setup

System setup includes:

- · Change password
- · Restore factory setting
- · Indicate sound switch setting
- Keyboard ID
- · Keyboard lock switch setting

Password setting

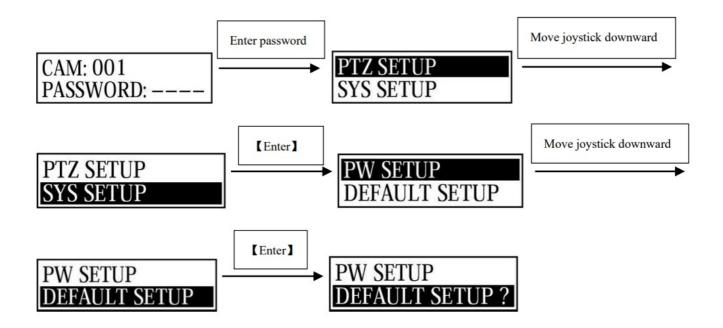
Press and hold SETUP for 3 seconds (under normal working mode), then follow the steps below:



Input the new password again then press ENTER. There will be a 1-sec beep sound once the setup is complete. Press ESC twice (2) to exit password setup page and return to the normal working mode.

Restore factory settings

Press and hold SETUP for 3 seconds (under normal working mode), then follow the steps below:



Press ENTER to confirm. There will be a 1-sec beep sound once the setup is complete. Press ESC twice (2) to exit password setup page and return to the normal working mode.

Keyboard menu

	Camera address: 0-255	Protocol	PELCO-D, PELCO-P, VISACA	
	(to be set)	Baud Rate	2400/ 4800/ 9600/ 19200	
PTZ Setup	Camera address 0-255 (uni form settings for all devices)	Same as above		
		OLD PW old password	4 digits	
		NEW PW: new password	4 digits	
	SET PASSWORD	AGAIN PW: confirm change	4 digits	
SYSTEM Setup	LOAD DEFAU		Press ENTER to confirm	
	(Restore factory setting)	Confirm?	Press ESC to exit	
	SOUND SETUP	ON	Move joystick right/left to select P	
	(Button sound on/off)	OFF	ress ENTER to confirm	
	HOST ID SET	Keyboard address	Number 0 – 15	
SYSTEM Setup	LEARN SETUP	ON	Move joystick right/left to select	
·	(Keyboard lock setting)	OFF	Press ENTER to confirm	

Keyboard parameters

Protocol: X Baud rate: X	Current control protocol and baud rate		
		Protocol	Corresponding protocol
Camera query	Camera protocol: 001	Baud rate	Corresponding baud rate
	Model number: XXXXXXXX	10 digits max	
	Serial number: XXXXXXXX	8-digit serial number on camera 2-digit keyboard ID number	
	Device number: XX		
Keyboard lock: ON/OFF Display the current keyboard		ent keyboard lock setting	
System query	Sound: ON/OFF	Display the current button sound prompt setting	

Trouble shooting

Issue	Analysis	Solution	
	Check cable connections	Check and secure all connecting cables	
	Check the correspondence of camera protocol and baud rate settings if matching with KBD	change the protocol and baud accordingly, to let camera and KBD to match each other or restore the KBD default settings and change the camera settings accordingly	
		If PTZ indicator light flashing, check other possib ilities;	
PTZ cameras no t responsive	Check the PTZ indicator light when move the controller	PTZ indicator light is not flashing, check the cable connections. If the connection is normal, pleas e contact AViPAS for repairing. Send email to service@avipas.com	
PTZ camera not fully response	Not fully functional on PTZ camera	If using other brand name PTZ camera, cannot g uarantee fully compatible	
		Check if the address numbers of the cameras (th ose moving together) are the same. Set identical address to each camera	
Cameras move t ogether	Check camera address (camera ID) setti ng	Note: you need to reboot the camera after changing settings	
Forgot password	Press and hold SETUP to enter the system settings menu. Reset the password.		

Maintenance Service Terms

Warranty

- AViPAS warrants its new product against defects in materials and workmanship for a period of TWO (2) YEAR from the date of original invoice.
- Within three months after the 1-year warranty, if the product is noticed to have the same malfunction as before the warranty ends, it will obtain free maintenance service.
- This warranty does NOT cover problems or damage resulting from, but not limited to, any of the following: any accident, disassembly, or misapplication; any improper operation that is not in accordance with the supplied product instructions; any other cause which does not relate to a product defect in materials or workmanship.
- Please avoid stress, vibration or soakage during transport, storage and installation. Problems or damage resulting from the above are NOT covered by warranty the above are NOT covered by warranty.
- Please remain the way of fission package and our original package for transport. Any damage resulting from integrated package or customer package are NOT covered by warranty.

- This warranty does NOT cover any problem or damage resulting from unauthorized repair or disassembly.
- Our company does offer repair services to out-of-warranty products. Please notice that service fees will be charged.
- For the defected products: if it's still under warranty, please fill out the warranty form with all the information needed, describing the problems in detail. Customers may be asked to furnish proof of ownership and date of purchase by showing the sales receipt/purchase invoice/warranty card.
- We are not responsible for the damage or loss caused by specific usage or applications. Any compensation
 made by the company regarding breach of contract, negligence or infringement won't exceed the amount of the
 product. The factory won't bear any responsibility for special, unexpected or continue damage caused by any
 other reasons.
- Our company has the final right of explanation for the above terms.

Repair service

• If the product needs to be sent back to the manufacturer for repair. please contact us at service@avipas.com
for the RMA form. Our company is only responsible for the one-way shipping fee from the manufacturer to customer after repair or maintenance.

Copyright Notice

All contents of this manual, whose copyright belongs to our corporation cannot be cloned, copied or translated without the permission of the company. Product specifications and information which were referred to in this document are for reference only. We may alter the content at any time and without prior notice.

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Documents / Resources



AVIPAS AV-3104SE 4D Serial Joystick Keyboard Controller [pdf] User Manual AV-3104SE 4D Serial Joystick Keyboard Controller, 4D Serial Joystick Keyboard Controller, Joystick Keyboard Controller, Keyboard Controller

References

• "- HOME | AVIPAS Inc.

• <u>SUPPORT | AVIPAS Inc.</u>

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