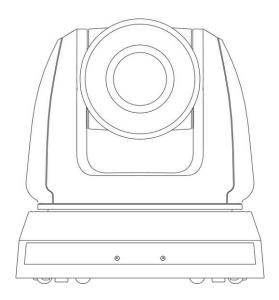
VC-A52S HD Camera (PTZ Video Camera)

Installation Guide - English



[Important]

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Chapter 1 Safety Instructions

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

1 Operation

- 1.1 Please use the product in the recommended operating environment.
- 1.2 Do not place the product in tilted position.
- 1.3 Do not place the product on an unstable trolley, stand or table.
- 1.4 Do not use this product near water or source of heat.
- 1.5 Use attachments only as recommended.
- 1.6 Use the type of power source indicated on this product. If you are not sure of the type of power available, consult your distributor or local electricity company for advice.
- 1.7 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.
- 1.8 Do not overload wall sockets, extension cords or multi-way plug boards to avoid potential risks.
- 1.9 Do not block the slots and openings in the case of this product. They provide ventilation and prevent this product from overheating.
- 1.10 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.
- 1.11 Unplug this product from the wall outlet and refer servicing to licensed service personnel when the following situations happen:
 - If the power cords are damaged or frayed.
 - If liquid is spilled into the Product or the Product has been exposed to rain or water.

2 Installation

2.1 For security considerations, please make sure the standard hanging rack you bought is in line with UL or CE safety approbations and installed by technician personnel approved by agents.

3 Storage

- 3.1 Do not place the Product where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
- 3.2 Never push objects of any kind through cabinet slots. Never allow liquid of any kind to spill into the Product.
- 3.3 Unplug this product during thunderstorms or if it is not going to be used for an extended period.
- 3.4 Do not place this product or accessories on top of vibrating equipment or heated objects.

4 Cleaning

4.1 Unplug all the cables before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.

5 Remote control (if the accessories are equipped with remote control)

5.1 Using an incorrect battery type in the remote control may result in breakdown. Follow local instructions on how to dispose of used batteries.



■ Precautions

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

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



Note

Risk of Electric Shock
Please do not open it by yourself.



Caution: To reduce the risk of electric shock, do not remove cover (or back). No user-serviceable parts inside. Refer servicing to licensed service personnel.



This symbol indicates that this equipment may contain dangerous voltage which could cause electric shock.



This symbol indicates that there are important operating and maintenance instructions in this User Manual with this unit.

■ FCC Warning

This HD camera has been tested and found to comply with the limits for a Class A digital 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 A 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 A prescrites dans la norme sur le material brouilleur: "Appareils Numeriques," NMB-003 edictee par l'Industrie.

■ EN55032 (CE Radiation) Warning

Operation of this equipment in a residential environment could cause radio interference.



Chapter 2 Package Contents

VC-A51S



Remote Control







Power Cord

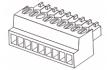
Power Adapter

RS-422 Connector







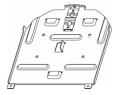


country/region Metal Plate A

Metal Plate B

M3 Screws

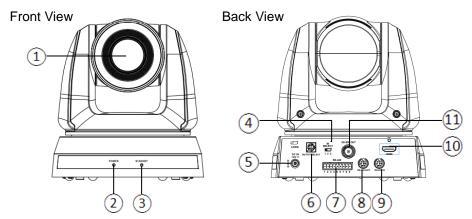






Chapter 3 Product Overview

3.1 Overview



1. Camera Lens	2. Power LED Indicator
3. Standby LED Indicator	4. IR SELECT
5. Power Input	6. OUTPUT Switch
7. RS-422 Connection	8. RS-232 Output
9. RS-232 Input	10.HDMI Output
11.3G-SDI Output	

3.2 Description of LED indicator

3.2.1 Power:

3.2.1.1 No Light: Power off

3.2.1.2 Green light: In use

3.2.1.3 Flickering green: Signal from the remote control is received; the indicator flickers every 0.5 second

3.2.2 Standby :

3.2.2.1 Orange: In standby mode

3.2.2.2 No Light: Power on



Chapter 4 Instruction for installation

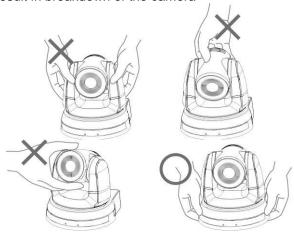
4.1 Preparation before installation

Installation and connection of HD camera requires special skills. To install by yourself, please follow necessary steps, ensure steady and tight installation of the device, and pay attention to your safety to avoid any accident.

- 4.1.1 Ensure the safety of the installation environment. Please do not install the device on unstable ceiling or in a place where the device is in danger of falling to avoid any accident.
- 4.1.2 Please check whether accessories in the box are complete or not. Please contact the supplier for any shortage, and make sure to keep the accessories in the box intact.
- 4.1.3 Please choose a proper place for installation of camera in advance. Please determine an installation place according to the following requirements
 - 4.1.1.1 Confirm the position for the object to be captured.
 - 4.1.1.2 Confirm whether the camera is set at a proper distance from other light sources.

4.2 Instruction for installation

- 4.2.1 I would like to install VC-A51S on the desk
 - 4.2.1.1 Precautions for installation
 - ◆ Please install the machine on a flat desk
 - ◆ Do not grab the camera head by hand when handling the device
 - Do not rotate the camera head by hand. Improper rotation may result in breakdown of the camera





4.2.1.2 Installation steps

- 1. Please adjust DIP switch at first prior to installation
- <Remark> Please refer to <u>Chapter 7 DIP Switch Setting</u> for the relevant descriptions on DIP switch.
- 2. Place the camera on a flat desk directly to ensure the normal vertical and horizontal operation of the machine



4.2.2 I would like to install VC-A51S on the ceiling

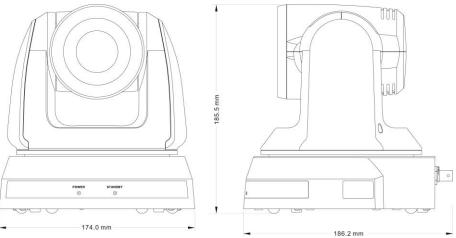
4.2.2.1 Prepare for the parts and equipment required during the installation

- Accessories of VC-A51S in the box (metal plates A,B, M3 screw silver x 8, black x 2)
- 2. Screw for locking on ceiling mounted hanger x 4
- 3. Drilling machine, screw driver, ladder

4.2.2.2 Camera Size

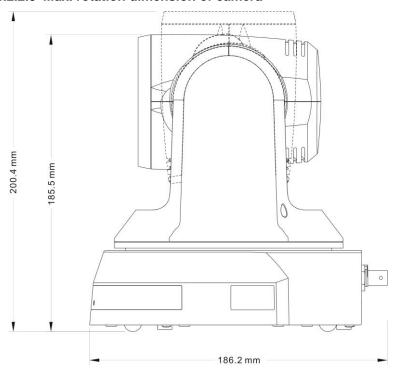
Length x Width x Height: 174 x 186.2 x 185.5 mm

Weight : 2.0 Kg



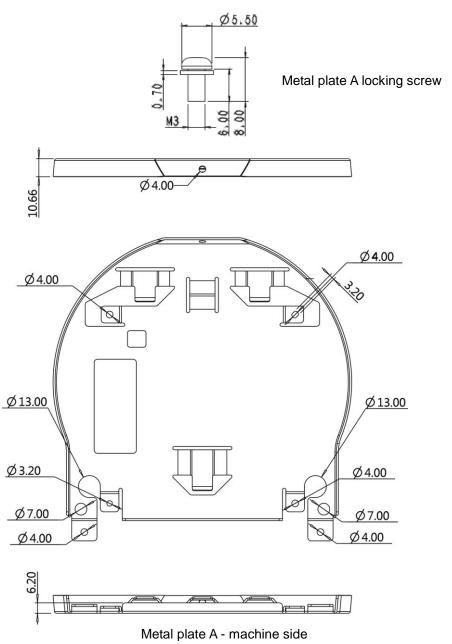


4.2.2.3 Max. rotation dimension of camera



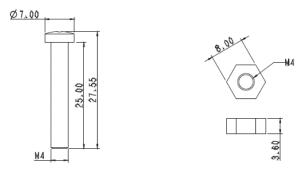
4.2.2.4 Size Diagram

1. Metal plate A - machine side



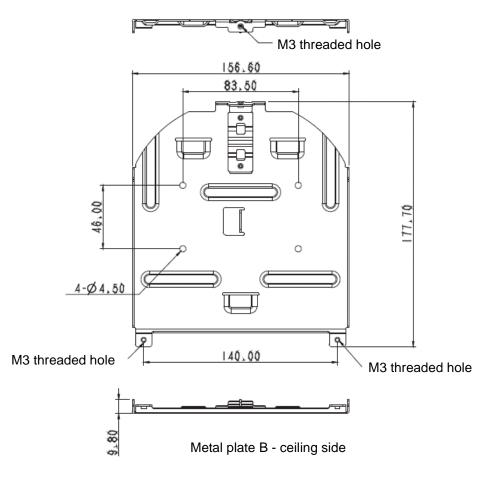


2. Metal plate B - ceiling side



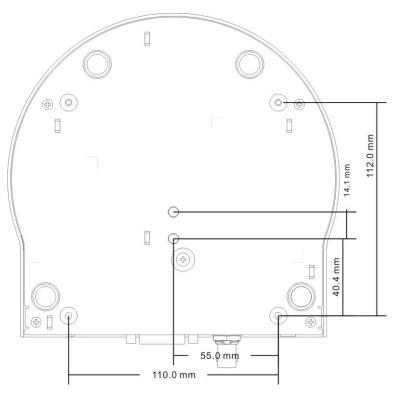
Metal plate B locking screw

Metal plate B locking bolt



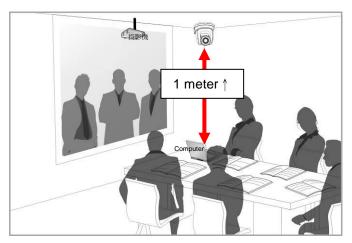


3. Bottom of machine



4.2.2.5 Precautions for installation

- 1. Before installation, please confirm the orientation of the machine relative to the object to be captured
- It is recommended that the machine should be set at a distance of more than 1 meter away from the object to be captured.
 Please adjust for a best distance according to the magnification of the lens

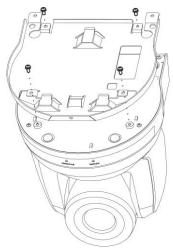


- The machine (including metal plates) is weighed at about 2.5 kg.
 If it is to be installed on the ceiling, please use the hanger that
 has obtained UL security approval to prevent the machine from
 falling down.
- 4. Please check whether the camera is installed securely on a regular basis

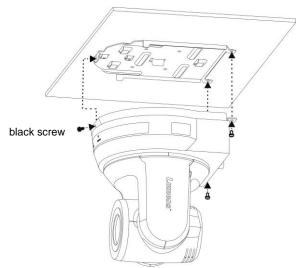
4.2.2.6 Installation steps

- 1. Please adjust resolution on DIP switch at first
- <Remark> Please refer to <u>Chapter 7 DIP Switch Setting</u> for the relevant descriptions on DIP switch.
- 2. Fix the metal plate A on the machine base with 4 M3 silver screws





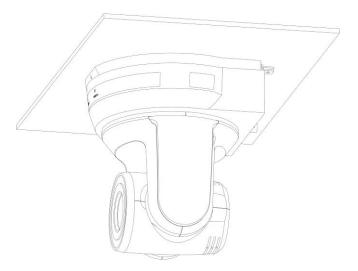
- (1) Please use the hanger that has obtained UL security approval
- (2) Please reserve the hole for the connecting wires of the camera
- 4. Combine the metal plate A and the metal plate B
 - (1) Push the metal plate A up to the ceiling and then to the right to latch the metal plate B
 - (2) And then secure with 2 M3 silver screws and 1 M3 black screw





4.2.2.7 How to remove

- 1. Remove the connecting wires from the camera
- 2. Uninstall the camera together with the ceiling, loosen the three screws that fix the metal plates A and B and push to the left to remove the machine



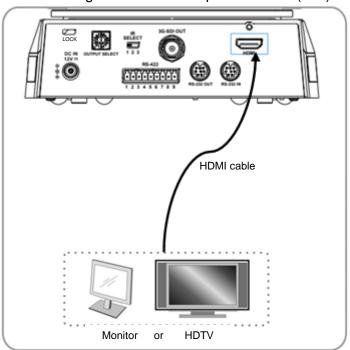
3. Then remove the screws on the hanger and the machine



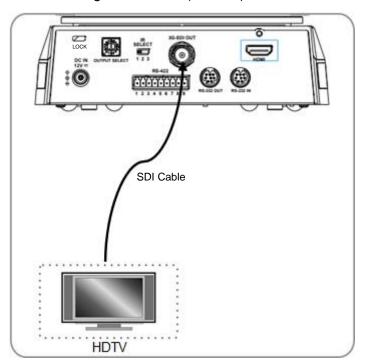
4.3 Connecting the device

4.3.1 Image Output

4.3.1.1 Connecting to a HDTV / computer monitor (DVI)



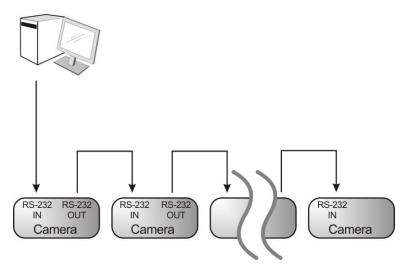
4.3.1.2 Connecting to an HDTV (3G-SDI)



4.3.2 Controlling VCs with the computer

4.3.2.1 Connecting to one computer for connection between VCs (RS-232 in/out)

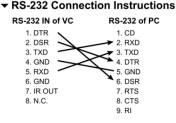
<Remark> With RS-232 in/out, at most 7 VCs can be connected.



4.3.2.2 RS-232 pins definition instructions

▼ RS-232 IN Pins Instructions

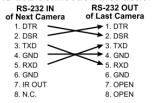
	NO	Pins	Signals
	1	DTR	Data Transmission Reade
876	2	DSR	Data Set Reade
(5 43)	3	TXD	Transmit Data
21	4	GND	Ground
	5	RXD	Receive Data
	6	GND	Ground
	7	IR OUT	IR Commander Signal
	8	N.C.	No Connection



▼ RS-232 OUT Pins Instructions

	NO	Pins	Signals
	1	DTR	Data Transmission Reade
876	2	DSR	Data Set Reade
5 43	3	TXD	Transmit Data
21	4	GND	Ground
	5	RXD	Receive Data
	6	GND	Ground
	7	OPEN	Reserved
	8	OPEN	Reserved

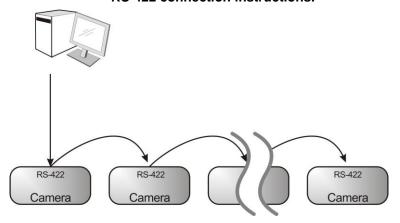
▼ RS-232 Connection Instructions





4.3.2.3 Connecting to one computer for connection between VCs (RS-422)

<Remark> With RS-422, at most 7 VCs can be connected. <Remark> Please refer to 7.2 RS-422 connection for the RS-422 connection instructions.

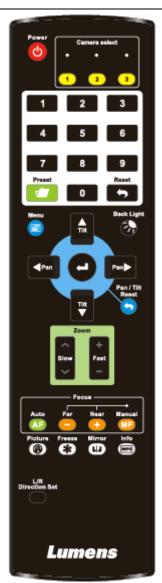




Chapter 5 Remote Control and Setting Menu

5.1 Functions of remote control

<Remark> The below functions are listed alphabetically.



Item	Description			
≺,≻, ∧, ∀	Move the lens			
Back Light	Turn on/off back light compensation			
Camera select	Choose camera 1 ~ 3			
Focus- Manual / Far/Near	Turn on manual focus to adjust the focal length			
Focus-Auto	Auto Focus			
Freeze	Freeze the screen			
Home-Enter	Go back to the main page / Execute			
Info	Status information			
L/R Direction Set	L/R Direction / Normal			
Menu	Display OSD menu			
Mirror	Rotate the image (OFF / Mirror / Flip / Rotate)			
Pan/Tilt Reset	Clear the Pan / Tilt setting			
Picture	Switch image effect (OFF / Neg / B&W)			
Power	Power Switch			
Preset	Appoint an ID (0 ~ 9) to save the current position data			
Reset	Appoint an ID (0 ~ 9) to delete the current position data			
Zoom-Fast	Adjust image size			
Zoom-Slow	Fine-tune image size			



5.2 Setting Menu

<Remark> Press [Menu] on the remote control to enter the setting menu; the bold underlined values in the following table are defaults.

1st Level Major Items	2nd Level Minor Items	3rd I	Level ent Values	Function Descriptions
	Mode	 Full A Shutte Iris Pr Manu White 	er Pri i	Exposure mode setting
	Exposure Comp.	On / <u>Off</u>		AE Level
	Exposure Comp. Level	-6~ C ~4		The value can be adjusted only after Exposure Comp. is activated
	Spot Light	On / <u>Off</u>		Adjustable when the Exposure mode is set to Full Auto or Shutter Pri
Exposure	Spot Light Position	X(0~8)Y(0~6)		The value can be adjusted after Spot Light is activated
LXPOSUIE	Shutter Pri	60/30 mode 1/10000 1/5000 1/3000 1/2500 1/2000 1/1500 1/1000 1/725 1/500	50/25 mode 1/10000 1/5000 1/3000 1/2500 1/1750 1/1250 1/1000 1/600 1/425	Adjustable when the Exposure mode is set to Shutter Pri
		1/350 1/250	1/300 1/215	



		ı	
	1/180	1/150	
	1/120	1/120	
	1/100	1/100	
	1/90	1/75	
	1/60	1/50	
	1/30	1/25	
	1/15	1/12	
	1/8	1/6	
	1/4	1/3	
	1/2	1/2	
	1/1	1/1	
Iris Pri	1. F1.6 2. F2 3. F2.2 4. F2.7 5. F3.2 6. F3.8 7. F4.5 8. F5.4 9. F6.3 10. F7.8 11. F9 12. F11 13. F13 14. F16 15. F18		Adjustable when the Exposure mode is set to Iris Pri



Manual Gain	1. OdB 2. 2 dB 3. 4 dB 4. 6 dB 5. 8 dB 6. 10 dB 7. 12 dB 8. 14 dB 9. 16 dB 10. 18 dB 11. 20 dB 12. 22 dB 13. 24 dB 14. 26 dB 15. 28 dB 16. 30 dB		Adjustable when the Exposure mode is set to Manual
Manual Speed	60/30 mode 1/10000 1/5000 1/3000 1/2500 1/2500 1/1500 1/1500 1/725 1/500 1/350 1/250 1/180 1/120 1/100 1/100	50/25 mode 1/10000 1/5000 1/3000 1/2500 1/1750 1/1250 1/1000 1/600 1/425 1/300 1/215 1/150 1/120 1/100 1/75	Manually set the shutter

	<u>1/60</u>	<u>1/50</u>	
	1/30	1/25	
	1/15	1/12	
	1/8	1/6	
	1/4	1/3	
	1/2	1/2	
	1/1	1/1	
Manual Iris	1. F1.6 2. F2 3. F2.2 4. F2.7 5. F3.2 6. F3.8 7. F4.5 8. F5.4 9. F6.3 10. F7.8 11. F9 12. F11 13. F13 14. F16 15. F18		Manually set the iris
Gain Limit	1. 8 dB 2. 10 dB 3. 12 dB 4. 14 dB 5. 16 dB 6. 18 dB 7. 20 dB 8. 22 dB 9. 24 dB 10. 26 dB 11. 28 dB 12. 30dB		Max. limit value of electron gain



	Iris Limit	1. F1.6 2. F2.2 3. F3.2 4. F4.5 5. F6.3 6. F9 7. F13 8. F18	Max. limit value of iris
	WDR	1. Off 2. 1 3. 2 4. 3 5. 4 6. 5	WDR settings
	Anti Flicker	 50Hz 60Hz Off 	Set the image sync frequency during capturing
White Balance	Mode	1. Auto 2. Indoor 3. Outdoor 4. One Push WB 5. ATW 6. Sodium Lamp 7. Manual 8. 3000K 9. 4300K 10. 5000K 11. 6500K 12. 8300K 13. WideAuto	Select the color temperature mode 1. 4000k ~ 7000k 2. 3200k 3. 5800k 4. 1700k ~ 10000k 5. 1700k ~ 10000k 6. 2800k 7. Custom 8. 3000K 9. 4300K 10. 5000K 11. 6500K 12. 8000K 13. 3000k ~ 7000k
	One Push Trigger	ENTER	One push trigger
	Manual Red	0~ C ~60	Adjustable when the white balance mode is set to Manual



	Manual Blue	0~ <u>C</u> ~60	Adjustable when the white balance mode is set to Manual
	Picture effect	1. <u>Off</u> 2. Neg 3. B & W	Set the picture effect
	Sharpness	1~ <u>A</u> ~16	Adjust the sharpness of the image
	2D NR	1. Auto 2. Off 3. 1 4. 2 5. 3 6. 4 7. 5	2D noise reduction settings
Picture	3D NR	 Off LOW Typ Max Auto 	3D dynamic noise reduction settings
	Image Mode	 Mode1 Mode2 Mode3 Mode4 Mode5 Mode6 Custom 	The user may customize his/her desired image mode
	Image Mode Load	 Mode1 Mode2 Mode3 Mode4 Mode5 Mode6 	Adjustable when the <i>Image mode</i> is set to <i>Custom</i> . After selected, the corresponding <i>Image mode</i> parameters will be read and applied to <i>Custom</i>
	Saturation	0~ <u>A</u> ~25	Adjustable when the <i>Image mode</i> is set to <i>Custom</i> mode



	Hue	0~ <u>A</u> ~14	Adjustable when the <i>Image mode</i> is set to <i>Custom</i> mode
	Gamma	0~ <u>A</u> ~3	Adjustable when the <i>Image mode</i> is set to <i>Custom</i> mode
	Skin Tone	1~ <u>A</u> ~5	Skin tone settings; adjustable when <i>Image</i> <i>mode</i> is set to <i>Custom</i> mode
	Brightness	0~ <u>A</u> ~14	Adjustable when the <i>Image mode</i> is set to <i>Custom</i>
	Contrast	0~ <u>A</u> ~14	Contrast adjustment; Adjustable when the <i>Image mode</i> is set to <i>Custom</i>
	Black Level	1. <u>Off</u> 2. Type 1 3. Type 2 4. Type 3	Shadow details and transparency adjustment, adjustable when the <i>Image mode</i> is set to <i>Custom</i>
	Pan/Tilt Limit	On / <u>Off</u>	Turn on/off the angle limit setting
	Pan Right Limit	0~ <u>170</u>	Limit the right angle
Pan Tilt Zoom	Pan Left Limit	<u>-170</u> ~0	Limit the left angle
	Tilt UP Limit	0~ 90	Limit the upward angle
	Tilt Down Limit	-30 ~0	Limit the downward angle
	Pan Flip	On / <u>Off</u>	Activate the reverse Pan command
	Tilt Flip	On / <u>Off</u>	Activate the reverse Tilt command
	Pan/Tilt Speed	Normal/Smooth	Adjust Pan/Tilt Speed



	Preset Speed	1. 80 deg/sec 2. 120 deg/sec 3. 160 deg/sec 4. 200 deg/sec 5. 300 deg/sec	Set the rotation speed of the cradle head when Preset is executed Set the Pan/Tilt Moving
	PTZ Speed Comp	On / Off	speed is subject to the zoom position
	D-Zoom Limit	<u>x1</u>~ x12	Limit the D-zoom multiple
D-Effect	Mirror	1. Off 2. Mirror 3. Flip 4. Mirror + Flip	Set the mode at which the image is turned
	AF Sensitivity	1. LOW 2. <u>Middle</u> 3. High	Select the AF triggering speed. The higher the speed is, the faster AF is triggered
Auto Focus	AF Frame	Full Frame/ Center	AF frame setting, when central area was set as AF frame, focusing will be on the center of the screen. When Full Frame was set as AF frame, focusing will be calculated based on the full screen
	Video Type	SDI DVI-I	Select video output type
	Prompt	On / <u>Off</u>	Turn on/off the prompt information on the display
	IR Receive	On / Off	Turn on/off the infrared reception
0	Language	English / Chinese	Language
System	Initial Position	Last MEM Off / 1st Preset On	Select the camera lens to return to the last operated position or the first preset position after POWER ON
	Control Device	Encoder / Controller	Control Device setting, Controller: for joystick Encoder: for tracking system



	Motionless Preset	On / <u>Off</u>	When the function is enabled, the screen will Freeze when Preset is executed. Freeze will be released after Preset is completed.
	Control Port	RS-232C /RS-422	Choose whether the control interface used is RS-232C or RS-422
	Protocol	<u>VISCA</u> / Pelco D	
	Baud Rate	9600 /38400	Choose the transmission speed of the control signal
	VISCA Address	<u>0</u> ~7	
	Pelco D Address	1~ C ~255	The Protocol set to Pelco D allows the camera ID address to be assigned
	Output Mode	1. 1920x1080/60p 2. 1920x1080/50p 3. 1920x1080/30p 4. 1920x1080/25p 5. 1920x1080/60i 6. 1920x1080/50i 7. 1280x720/60p 8. 1280x720/50p 9. 1280x720/30p 10. 1280x720/25p 11. 1080/59.94p 12. 1080/59.94i 13. 1080/29.97p 14. 720/59.94p 15. 720/29.97p	Choose the output resolution
	Factory Reset	On / Off	Resume the factory default setting
Status			Display the current setting status



Chapter 6 Descriptions of Major Functions

6.1 I would like to switch to VC-A51S

- 1. Press [Camera 1 ~ 3] on the remote control to select VC-A51S.
- Camera 1 ~ 3 is selected with IR SELECT.

6.2 I would like to save the current lens position data

- Hold [Preset + ID] on the remote control to save the current position data.
- ID shall be a digit [0 ~ 9].
- Use VISCA Command to store position data to [0 ~ 127]

6.3 I would like to clear the saved position data

- 1. Hold [Reset + ID] on the remote control to clear the given position data.
- ID shall be a digit [0 ~ 9].
- Use VISCA command to clear position data stored in [0 ~ 127]

6.4 I would like to turn on the back light compensation function

 Press [Back Light] on the remote control to turn on or turn off the back light compensation

6.5 I would like to adjust the shooting angle of the lens

- Press [Tilt ▲] or [Tilt ▼] on the remote control to adjust the angle upward or downward.
- 2. Press [Pan ▶] or [Pan ◄] on the remote control to adjust the angle to right or left.
- 3. Press [Pan Tilt Reset] on the remote control to reset the angle to the center point.

6.6 I would like to hide the preset image switch (Motionless Preset)

- 1. Press [MENU] to activate the setting menu.
- 2. Press [▶] or [◀] to select [System].
- 3. Press **[ENTER]** to activate.



- 4. Press [▲] or [▼] to select [Motionless Preset].
- 5. Press [ENTER] to activate.
- 6. Press [▶] or [◄] to select [Off / On].
- 7. Press [MENU] to exit.

6.7 I would like to zoom in/out images

6.7.1 Adjust image size

- 1. Press [Fast +] on the remote control to zoom in images.
- 2. Press [Fast -] on the remote control to zoom out images.

6.7.2 Fine-tune image size

- 1. Press [Slow +] on the remote control to zoom in images.
- 2. Press [Slow -] on the remote control to zoom out images.

6.8 I would like to adjust the focal length

6.8.1 Auto tune

Press [AF] on the remote control to adjust automatically.

6.8.2 Manual focus

- 1. Press [MF] on the remote control to turn on the manual focus function.
- 2. Press Focus [+] or Focus [-] to adjust.

6.9 I would like to adjust the AF sensitivity

Triggering speed of focus. The higher the speed is, the faster focus is triggered

To shoot fast-moving objects, *AF Sensitivity* can be set to [High] or [Medium], which is applicable to quick focus.

When the environment is too dark to enable auto focus or fixed objects have to be shot in different brightness, *AF Sensitivity* can be set to **[Low]**.

- 1. Press [MENU] to activate the setting menu.
- 2. Press [▶] or [◄] to select [Auto Focus].
- 3. Press [ENTER] to activate.
- 4. Press [▲] or [▼] to select [AF Sensitivity].
- 5. Press [ENTER] to activate.
- 6. Press [▶] or [◄] to select [High / Middle / Low].
- 7. Press [MENU] to exit.



6.10 I would like to set the image mode

1. Press [Picture] on the remote control to switch [Off / Neg / B&W].

6.11 I would like to freeze images

1. Press [Freeze] on the remote control to freeze the current image on the display.

6.12 I would like to rotate the image

 Press [Mirror] on the remote control to switch [Off / Mirror / Flip / Mirror + Flip].

6.13 I would like to change the camera direction

Press [L/R Direction Set] on the remote control to switch [L/R Direction / Off / Normal].

6.14 I would like to display the current status

1. Press [Info] on the **remote control** to display the current status information.

6.15 I would like to reset to the original setting

- 1. Press [MENU] to activate the setting menu.
- 2. Press [▶] or [◄] to select [System].
- 3. Press [ENTER] to activate.
- 4. Press [▲] or [▼] to select [Factory Reset].
- 5. Press [ENTER] to activate.
- 6. Press [▶] or [◀] to select [On].
- 7. Press [ENTER] to execute.

Chapter 7 DIP switch setting

<Note> Please turn off the machine before changing DIP switch setting.

7.1 DIP SWITCH

7.1.1 OUTPUT Switch



Setting	Function Descriptions
0	1920x1080/60p
1	1920x1080/50p
2	1920x1080/30p
3	1920x1080/25p
4	1920x1080/60i
5	1920x1080/50i
6	1280x720/60p
7	1280x720/50p
8	1280x720/30p
9	1280x720/25p
Α	1080/59.94p
В	1080/59.94i
С	1080/29.97p
D	720/59.94p
E	720/29.97p
F	Reserved

7.1.2 IR SELECT



ID	Setting	
1		
2		
3		

7.2 RS-422 Connection

7.2.1 RS-422 Pin Description

▼ RS-422 Pins Instructions

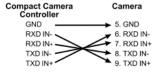


Pin NO.	Function
1	RXD OUT-
2	RXD OUT+
3	TXD OUT-
4	TXD OUT+
5	GND
6	RXD IN-
7	RXD IN+
8	TXD IN-
9	TXD IN+

▼ RS-422 Connection Instructions

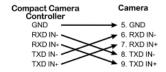
Applicable to

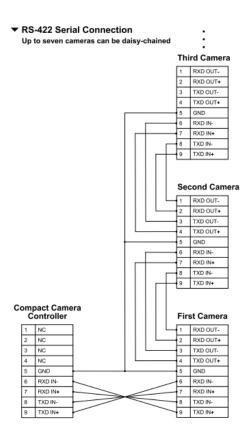
Lumens Compact Camera Controller



▼ RS-422 Connection Instructions

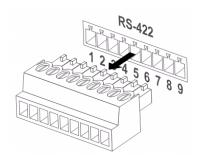
—Applicable to SONY Compact Camera Controller





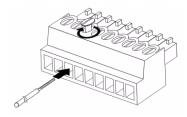
7.2.2 Use RS-422 Connection

1. Hold the two sides of RS-422 connector and pull out in the direction shown by the arrow in the figure below

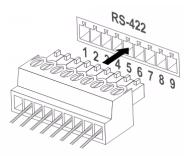




2. Peel off a section of copper wire (AWG Nos. 28 to 18) and insert it into the connector hole; then use flat screw driver to fix it



3. Insert the wired RS-422 connector back to the camera. Now the connection is completed



<Note> When RS-422 connection is being used, do not use RS-232C connection.



Chapter 8 Troubleshooting

This chapter describes problems you may encounter while using VC-A51S. If you have questions, please refer to related chapters and follow all the suggested solutions. If the problem still occurred, please contact your distributor or the service center.

No.	Problems	Solutions
1.	Boot without	Make sure you have plugged in the power cord.
	power signal	
2.	There is no image	1. Check the power.
	output from	2. Check if DIP switch is properly set. Please refer to
	VC-A51S	Chapter 7 DIP switch setting.
		3. Make sure the display supports the output
		resolution; in general, the resolution is
		1080p60/1080i60/720p60.
		4. Replace the cables and make sure they are not
		faulty.
3.	VC-A51S image is	Please use 1080p or 720p 60/50 Hz signals rather
	severely delayed	than 25/30 Hz signals.
4.	Not working after	After completing DIP Switch setting, unplug and
	changes to DIP	reconnect the power cord and turn on the machine to
	Switch setting	change the setting.
5.	VC-A51S cannot	Please confirm if the Camera Select on the remote
	be operated by	control can be used together with the IR Select on
	remote control	the camera.
		2. Please prevent camera from direct sunshine.
		3. Make sure the energy-saving bulb and the IR touch
		screen are as far as possible in order to avoid
		interference.

		4. When several camera are connected in the same
		area, the operation of two remote controls at the
		same time may result in signal interference. It is
		recommended to use one remote control only.
6.	The device cannot	Please consult the distributor to make sure the
	be controlled with	firmware version is the latest one. The steps to
	Codec	check version is as follows:
		1.1 Press [MENU] on the remote control
		1.2 Choose [Status]
		1.3 Go to Page 5 of [System]
		1.4 Make sure the firmware version is correct.
		2. Make sure the connection is correct (RS-232/422
		Input).
		3. Please confirm OSD menu [System]/[Control
		Protocol] setting.
7.	The device cannot	Make sure the connection is correct (RS-232/422)
	be controlled with	Input).
	RS-232/RS422	2. Please confirm OSD menu [System]/[Control
		Protocol] setting.



Supplier's Declaration of Conformity 47 CFR § 2.1077 Compliance Information

Manufacturer : Lumens Digital Optics Inc.

Product Name: VC-A52S

Model Number: PTZ Video Camera

Responsible Party – U.S. Contact Information

Supplier: Lumens Integration, Inc.

4116 Clipper Court, Fremont, CA 94538, United States

e-mail: support@mylumens.com

FCC Compliance Statement

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

