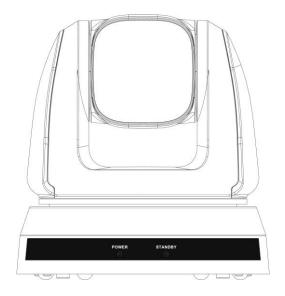


VC-A20P HD Camera

Installation Guide - English



[Important]

To download the latest version of Quick Start Guide, multilingual user manual, software, or driver, etc., please visit Lumens <u>http://www.Mylumens.com</u>

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Chapter 1 Safety Instructions

Please use the product following the safety instructions below:

1 Operation

- 1.1 Please use the product in the recommended operating environment.
- 1.2 Do not place Light Engine 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 the HD Camera. If you are not sure of the type of power available, consult your dealer 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 slots and openings in the case of this product as poor ventilation may lead to overheating of this product.
- 1.10 Except as specifically instructed in this User Manual, do not attempt to open or remove covers by yourself. It may expose you to electric shock or 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 HD Camera or the HD Camera 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 HD Camera 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 HD Camera.
- 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

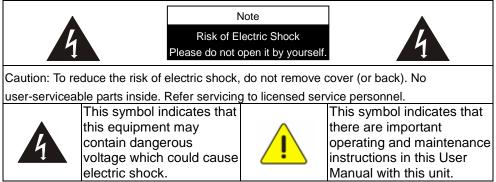
- 4.1 Unplug all the cables before cleaning. Use a damp cloth for cleaning. Do not use liquid or aerosol cleaners.
- 5 Remote control (if the accessories are equipped with remote control)
 - 5.1 Using an incorrect battery type in the remote control may result in breakdown. Follow local instructions on 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 HD Camera will not be used for an extended time, unplug it from the power socket.



■ 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.

EN55022 (CE Radiation) Warning

This product is intended for use in a commercial, industrial, or educational environment. It is not intended for residential use.

This is a Class A product. In a residential environment it may cause radio interference, in which case the user may be required to take adequate measures. The typical use is in a conference room, reception room or hall.



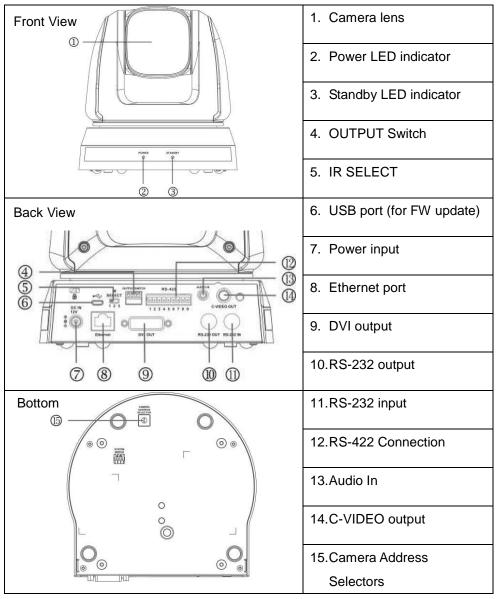
Chapter 2 Package Contents

VC-A20P	Instruction for installation	Remote control
Power cord	Power Adapter	RS-422 Connector
Appearance may vary depending on country/region		
Metal Plate A	Metal Plate B	M3 Screws
		One One



Chapter 3 Product Overview

3.1 Overview





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



4.1 Preparation before installation

Installation and connection of VC-A20P 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 VC-A20P in advance. Please determine an installation place according to the following requirements.
 - 4.1.3.1 Confirm the position for the object to be captured.
 - 4.1.3.2 Confirm whether the VC-A20P is set at a proper distance from other light sources.

4.2 Instruction for installation

4.2.1 I would like to install VC-A20P 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-A20P on the ceiling

4.2.2.1 Prepare for the parts and equipment required during the installation

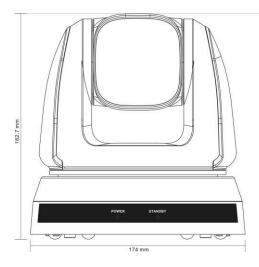
- Accessories of VC-A20P in the box (metal plates A, B and M3 screw x 7)
- 2. Screw for locking on ceiling mounted hanger x 4
- 3. Drilling machine, screw driver, ladder

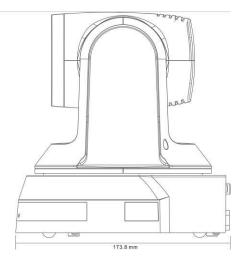
4.2.2.2 Camera Size

Length x Width x Height : 174 x 173.8 x 182.7 mm

Weight : 1.8 Kg

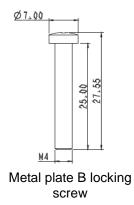


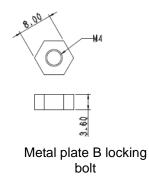




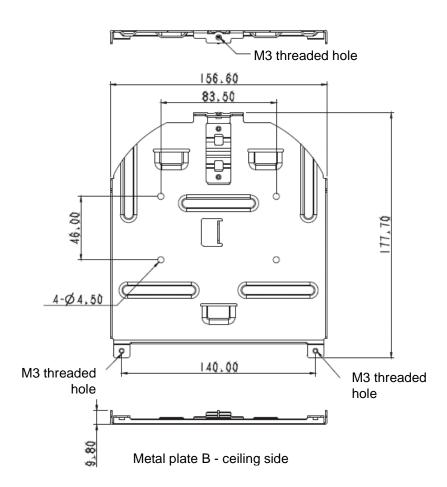
4.2.2.3 Size Diagram

1. Metal plate B - ceiling side



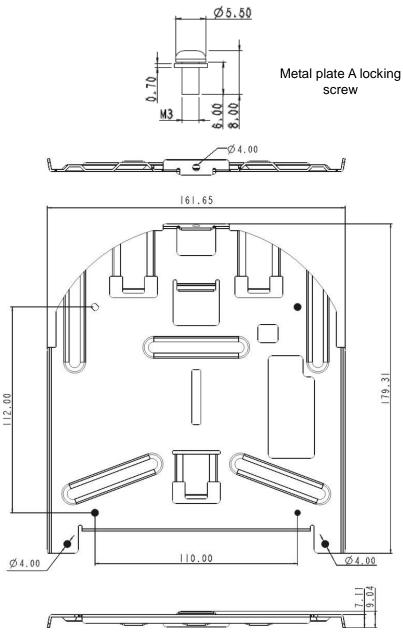


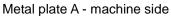






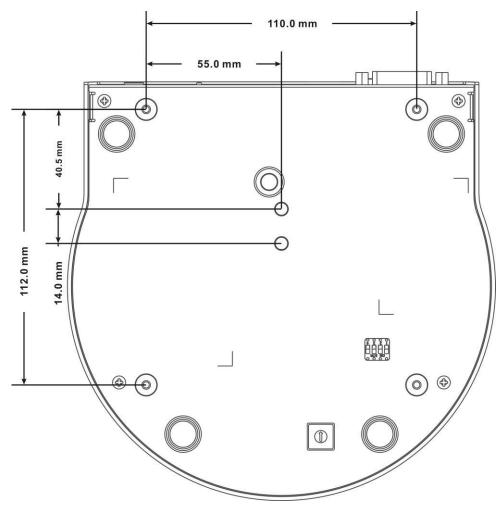
2. Metal plate A - machine side







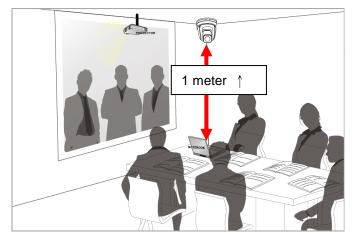
3. Bottom of machine





4.2.2.4 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

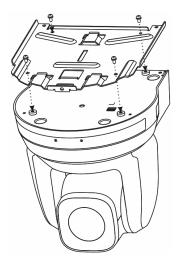
4.2.2.5 Installation steps

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.

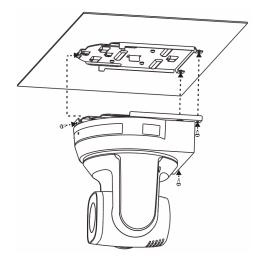
2. Fix the metal plate A on the machine base with 4 M3 screws





3. Lock the metal plate B on ceiling mounted hanger %Caution:

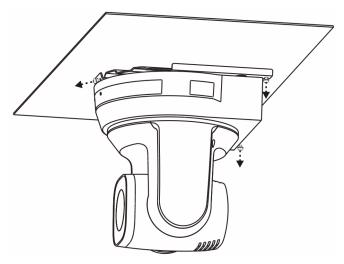
- (1) Please use the hanger that has obtained UL security approval
- (2) Please reserve the hole for the connecting wires of the camera
- 4. Combine the metal plate A and the metal plate B
 - (1) Push the metal plate A up to the ceiling and then to the right to latch the metal plate B
 - (2) Fix with 3 M3 screws





4.2.2.6 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



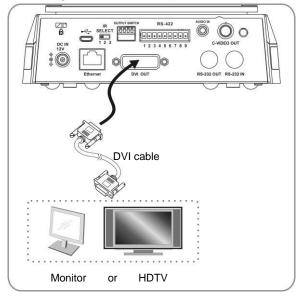
3. Then remove the screws on the hanger and the machine



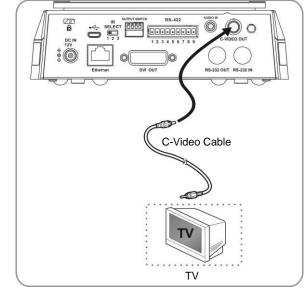
4.3 Connecting devices

4.3.1 Image output

4.3.1.1 Connecting to a HDTV/computer monitor (DVI)

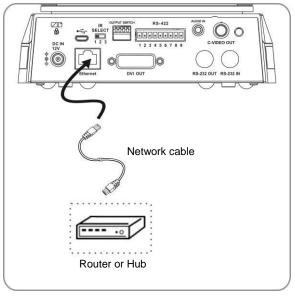


4.3.1.2 Connecting to a TV (C-Video)

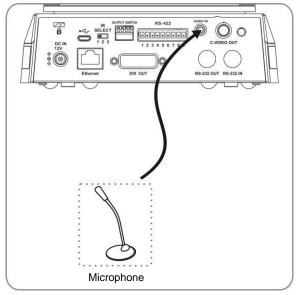




4.3.1.3 Connecting to Internet



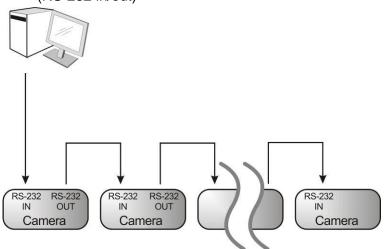
4.3.1.4 Connecting AUDIO IN





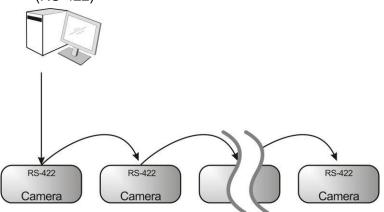
4.3.2 Controlling VCs with the computer

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



<Remark> Please refer to <u>7.2 RS-422 connection</u> for the RS-422 connection instructions.

<Remark> With RS-422, at most 7 VCs can be connected.



Chapter 5 Remote Control and Setting Menu

5.1 Functions of remote control

<Remark> The below functions are listed alphabetically.

Description Move the lens Turn on/off back light compensation Choose 1 ~ 3 of VC-A20P Turn on manual focus to adjust the focal length Auto focus Freeze the screen Go back to the main page / Execute Status information L/R Direction / Normal t Display OSD menu Rotate the image (OFF / Mirror /
Turn on/off back light compensation Choose 1 ~ 3 of VC-A20P Turn on manual focus to adjust the focal length Auto focus Freeze the screen Go back to the main page / Execute Status information L/R Direction / Normal tt
Choose 1 ~ 3 of VC-A20P Turn on manual focus to adjust the focal length Auto focus Freeze the screen Go back to the main page / Execute Status information L/R Direction / Normal t Display OSD menu
Turn on manual focus to adjust the focal length Auto focus Freeze the screen Go back to the main page / Execute Status information L/R Direction / Normal t Display OSD menu
focal length Auto focus Freeze the screen Go back to the main page / Execute Status information L/R Direction / Normal tt Display OSD menu
focal length Auto focus Freeze the screen Go back to the main page / Execute Status information L/R Direction / Normal tt Display OSD menu
Auto focus Freeze the screen Go back to the main page / Execute Status information L/R Direction / Normal tt Display OSD menu
Freeze the screen r Go back to the main page / Execute Status information L/R Direction / Normal t Display OSD menu
Freeze the screen r Go back to the main page / Execute Status information L/R Direction / Normal t Display OSD menu
r Go back to the main page / Execute Status information L/R Direction / Normal t Display OSD menu
Status information L/R Direction / Normal t Display OSD menu
L/R Direction / Normal t Display OSD menu
t Display OSD menu
Display OSD menu
Rotate the image (OFF / Mirror /
Flip / Mirror + Flip)
Clear the Pan / Tilt setting
Switch image effect (OFF / NEG /
Black&White)
Power switch
Appoint an ID (0 ~ 9) to save the
current position data
Appoint an ID $(0 \sim 9)$ to delete the
current position data
Adjust image size
Fine-tune image size

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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.

1 st Level Major Items	2 nd Level Minor Items	3 ^{řd} L Adjus	.evel stment ues	Function Descriptions	
	Mode	3. Manu	er Pri	Exposure mode setting	
	Exposure_ Comp.	On / <u>Off</u>		AE Level	
	Exposure_ Comp. Level	-6~ 0 ~5		The value can be adjusted only after Exposure_ Comp. is activated	
Exposure	Shutter Pri	60/30 mode 1/10000 1/5000 1/2500 1/2500 1/2500 1/1500 1/1500 1/250 1/250 1/250 1/250 1/180 1/120 1/100 1/100 1/100 1/100 1/100 1/100	50/25 mode 1/10000 1/5000 1/2500 1/2500 1/1750 1/1250 1/1000 1/425 1/300 1/215 1/150 1/120 1/120 1/100 1/75 1/50 1/25 1/12	Shutter priority setting	
1/15 1/12					

	1/8	1/6	
	1/4	1/3	
	1/2	1/2	
	1/1	1/1	
Manual Gain	1. OdB 2. 2 dB 3. 4 dB 4. 6 dB 5. 8 dB 6. 10 dE 7. 12 dE 8. 14 dE 9. 16 dE 10. 18 dE 11. 20 dE 13. 24dB 14. 26 dE 15. 28 dE 16. 30 dE	5 5 5 5 5	Manually set the gain
Manual Speed	10:00 dL 60/30 mode 1/10000 1/5000 1/2500 1/2000 1/1500 1/1500 1/1500 1/1500 1/1500 1/1500 1/725 1/500 1/350 1/250 1/180 1/120	50/25 mode 1/10000 1/5000 1/2500 1/2500 1/1750 1/1250 1/1000 1/600 1/425 1/300 1/215 1/150 1/120	Manually set the shutter

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	1/100	1/100	
	1/90	1/75	
	<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	
Gain Limit	 8 dB 10 dE 12 dE 14 dE 14 dE 16 dE 18 dE 20 dE 22dB 24dB 26 dE 28 dE 30dB 	3 3 3 3	Max. limit value of electron gain
WDR	1. Off 2. 1 3. 2 4. 3 5. 4 6. 5		WDR settings



White Balance	Mode	 Auto Indoor Outdoor One Push WB ATW Manual Sodium lamp 3000K 4300K 5000K 6500K 8000K 8000K 8000K 8000K 8000K 8000K 8000K WidwAuto 	Select the color temperature mode
	One Push Trigger	ENTER	One push trigger
	Manual Blue	0~ <u>C</u> ~128	Adjustable when the white balance mode is set to Manual
	Manual Red	0~ <u>C</u> ~128	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	0~ <u>C</u> ~15	Adjust the sharpness of the image
Picture	2D NR	1. <u>Auto</u> 2. Off 3. 1 4. 2 5. 3 6. 4 7. 5	2D noise reduction settings
	3D NR	 Off Low Typ Max Auto 	3D dynamic noise reduction settings



	Image Mode	 Mode 1 Mode 2 Mode 3 Mode 4 Mode 5 Mode 6 Custom 	The user may customize his/her desired image mode
	Image Mode Load	 Mode 1 Mode 2 Mode 3 Mode 4 Mode 5 Mode 6 	Adjustable when the <i>image mode</i> is set to <i>Mode 5</i> . After selected, the corresponding <i>image</i> <i>mode</i> parameters will be read and applied to <i>Mode 5</i>
Disture	Brightness	0~ <u>C</u> ~25	Adjustable when the <i>image mode</i> is set to <i>Custom</i>
Picture	Contrast	0~ C ~25	Contrast adjustment; Adjustable when the <i>image mode</i> is set to <i>Custom</i>
	Saturation	0~ <u>C</u> ~25	Adjustable when <i>Image Mode</i> is set to <i>Mode</i> 5.
	Black Level	 Off Type 1 Type 2 Type 3 Type 4 Type 5 	Adjustable in the <i>Custom</i> Mode
	Gamma	0~ <u>C</u> ~3	Adjustable when <i>Image Mode</i> is set to <i>Mode</i> 5.
	Skin Tone	0~ <u>C</u> ~5	Set skin tone, Adjustable when <i>Image Mode</i> is set to <i>Mode 5</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~ <u>90</u>	Limit the upward angle
	Tilt Down Limit	<u>-30</u> ~0	Limit the downward angle

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		1. Off	
D-effect	Mirror	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
	AF speed	Fast / <u>Normal</u>	Focus speed after AF triggering
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
	DHCP	<u>On</u> /Off	Enable/Disable DHCP setting using left and right arrow keys and press [ENTER] to apply setting.
	IP Address	<u>192.168.100.150</u>	Press [ENTER] to modify the items; select the item to be modified using left and right arrow keys, and modify the value using numeric keys.
Ethernet	Subnet mask	<u>255.255.255.0</u>	Press [ENTER] to modify the items; select the item to be modified using left and right arrow keys, and modify the value using numeric keys.
	Geteway	<u>192.168.100.1</u>	Press [ENTER] to modify the items; select the item to be modified using left and right arrow keys, and modify the value using numeric keys.
01	Audio	On / <u>Off</u>	Volume adjustment
System	C-Video	NTSC LB NTSC CP	Image mode
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		NTSC SQ	
		PALLB	
		PALCP	1
		PAL SQ	
		SDI	
	Video Type	YPbPr/DVI	Select video output type
	Prompt	On / <u>Off</u>	Turn on/off the prompt information on the display
	IR Receive	<u>On</u> / Off	Turn on/off the infrared reception
	Language	<u>English</u> / Chinese	Language
	Output Mode	1. 1080p/60 2. 1080p/59.94 3. 1080p/50 4. 1080p/30 5. 1080p/29.97 6. 1080p/25 7. 1080i/60 8. 1080i/59.94 9. 1080i/50 10. 720p/60 11. 720p/59.94 12. 720p/50	Set output resolution
	Protocol	Protocol V/ Protocol PD	Protocol V: VISCA Protocol PD: PELCO D
	Factory Reset	On / <u>Off</u>	Resume the factory default setting
	FW Upgrade	On / <u>Off</u>	Upgrade Firmware
Status			Display the current setting status



Chapter 6 Descriptions of Major Functions

6.1 I would like to switch to VC-A20P

- 1. Press [Camera 1 ~ 3] on the remote control to select VC-A20P.
- Camera 1 ~ 3 is selected with IR SELECT.

6.2 I would like to save the current lens position data

- 1. 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

1. 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

- 1. 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 zoom in/out images

6.6.1 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.

6.6.2 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.

6.7 I would like to adjust the focal length

6.7.1 Auto tune

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

6.7.2 Manual focus

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

6.8 I would like to adjust the AF speed

6.8.1 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 **[Middle]**, 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.

6.8.2 Adjust the AF speed

The focus speed upon triggering AF Sensitivity

- [Normal] (default): Image flickering may not occur
- [Fast]: Fast focus speed



- 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 speed].
- 5. Press [ENTER] to activate.
- 6. Press [▶] or [◄]] to select [Fast / Normal].
- 7. Press [MENU] to exit.

6.9 I would like to set the image mode

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

6.10 I would like to freeze images

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

6.11 I would like to rotate the image

 Press [Mirror] on the Remote Control to switch [Off / Mirror / Flip / Mirror + Flip].

6.12 I would like to change the camera direction

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

6.13 I would like to display the current status

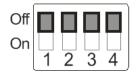
1. Press **[Info]** on the **remote control** to display the current status information.



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

7.1 DIP SWITCH

7.1.1 OUTPUT Swtich



Output Mode	Setting	Output Mode	Setting
1920x1080/60p		1920x1080/50p	
1920x1080/30p		1920x1080/25p	
1920x1080/60i		1920x1080/50i	
1280x720/60p		1280x720/50p	
1080/59.94p		1080/59.94i	
1080/29.97p		720/59.94p	



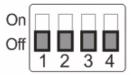
7.1.2 IR SELECT

1 2	2 3
ID	Setting
1	
2	
3	

7.1.3 Camera Address Selector

A 56 E 2 0 0		
Setting	Function	
	Descriptions	
0~7	ID 0~7	
8~9	Reserved	

7.1.4 System Switch



Setting	Function Descriptions
DIP 1	RS-232C/RS-422 selector
	OFF: RS-232C / ON: RS-422
DIP 2	Infrared signal output switch
	OFF: Off / ON: On
DIP 3	Communication baud rate selector
	OFF: 9600 / ON: 38400
DIP 4	Reserved



7.2 RS-422 Connection

7.2.1 RS-422 Pin Description

RS-422

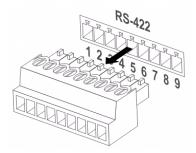
Pin NO.	Function
1	RXD OUT -
2	RXD OUT +
3	TXD OUT -
4	TXD OUT +
5	GND
6	RXD IN -
7	RXD IN +
8	TXD IN -
9	TXD IN +

<Note>

Please connect IN+ to OUT+ when connecting to SONY products For non-SONY products, it may be necessary to connect IN+ to OUT-

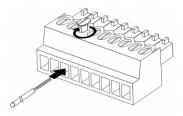
7.2.2 Use RS-422 Connection

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

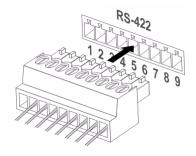


2. Peel off a section of copper wire (AWG Nos. 28 to 18) and insert it into the connector hole; then use flat screw driver to fix it





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-A20P. 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	1. Make sure you have plugged in the power cord.
	power signal	2. Make sure the Service DIP switch is Off.
2.	There is no image	1. Check the power.
	output from	2. Check if DIP switch is properly set. Please refer to
	VC-A20P	Chapter 7 DIP Switch Setting for related settings.
		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-A20P 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-A20P cannot	1. Please confirm if the Camera Select on the remote
	be operated by	control can be used together with the IR Select on
	remote control	VC-A20P.
		2. Please prevent VC-A20P 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 VC-A20P 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	1. 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:
LU	Lumens English - 3	

		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. Make sure System Switch DIP1 and DIP3 are
		correct.
7.	The device cannot	1. Make sure the connection is correct (RS-232/422
	be controlled with	Input).
	RS-232/RS422	2. Make sure System Switch DIP1 and DIP3 are
		correct.
8.	Whether the	Please refer to Network Function Description for
	Internet can be	VC-A20P for the Internet usage
	used for operation	



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