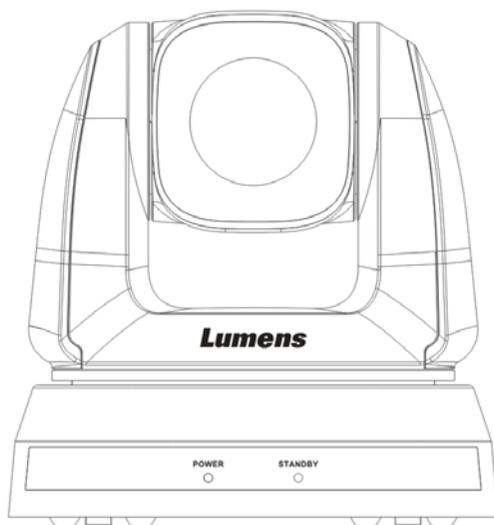


VC-A60S PTZ Video Camera

Installation Guide - English



[Important]

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<http://www.MyLumens.com>

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Chapter 1 Safety Instructions

Always follow these safety instructions when setting up and using the PTZ Video Camera:

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 the PTZ Video Camera. 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 as this may cause fire or electric shock.
- 1.9 Do not block the slots and openings in the case of PTZ Video Camera. They provide ventilation and prevent the PTZ Video Camera 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 the PTZ Video Camera 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 PTZ Video Camera will not be used for an extended time, unplug it from the power socket.

| | | | | |
|---|---|--|---|---|
|  | <table border="1"> <tr> <td style="text-align: center;">Note</td> </tr> <tr> <td style="text-align: center;">Risk of Electric Shock Please do not open it by yourself</td> </tr> </table> | Note | Risk of Electric Shock Please do not open it by yourself |  |
| Note | | | | |
| Risk of Electric Shock Please do not open it by yourself | | | | |
| <p>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.</p> | | | | |
|  | <p>This symbol indicates that this equipment may contain dangerous voltage which could cause electric shock.</p> |  | | |
| | | <p>This symbol indicates that there are important operating and maintenance instructions in this User Manual with this unit.</p> | | |

■ FCC Warning

This PTZ Video 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 numérique respecte les limites de bruits radioélectriques applicables aux appareils numériques de Classe A prescrites dans la norme sur le matériel brouilleur: "Appareils Numériques," NMB-003 édictée par l'Industrie.

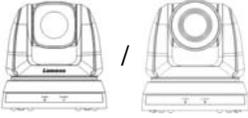
■ EN55022 (CE Radiation) Warning

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-A60S



Instruction for
installation



Remote Control

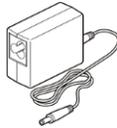


Power Cord

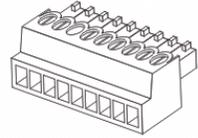


Appearance may vary
depending on
country/region

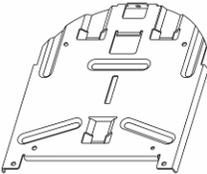
Power Adapter



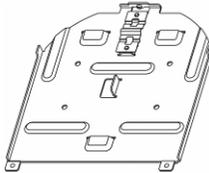
RS-422 Connector



Metal Plate A



Metal Plate B



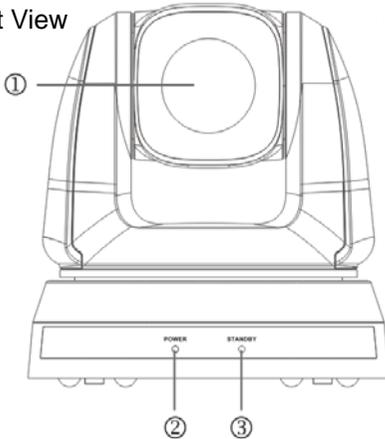
M3 Screws



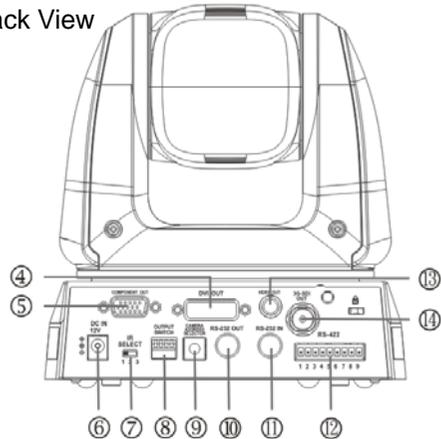
Chapter 3 Product Overview

3.1 Overview

Front View



Back View



| | |
|-----------------------------|------------------------|
| 1. Camera lens | 2. Power LED indicator |
| 3. Standby LED indicator | 4. DVI output |
| 5. Component output | 6. Power input |
| 7. IR SELECT | 8. OUTPUT Switch |
| 9. Camera Address Selectors | 10. RS-232 output |
| 11. RS-232 input | 12. RS-422 Connection |
| 13. VIDEO output | 14. 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 VC-A60S PTZ Video 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-A60S 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.

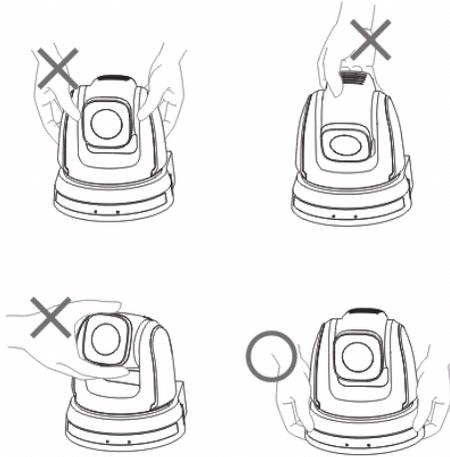
4.1.1.2 Confirm whether the VC-A60S is set at a proper distance from other light sources.

4.2 Instruction for installation

4.2.1 I would like to install VC-A60S 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 [Chapter 7 DIP Switch Setting](#) 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-A60S on the ceiling

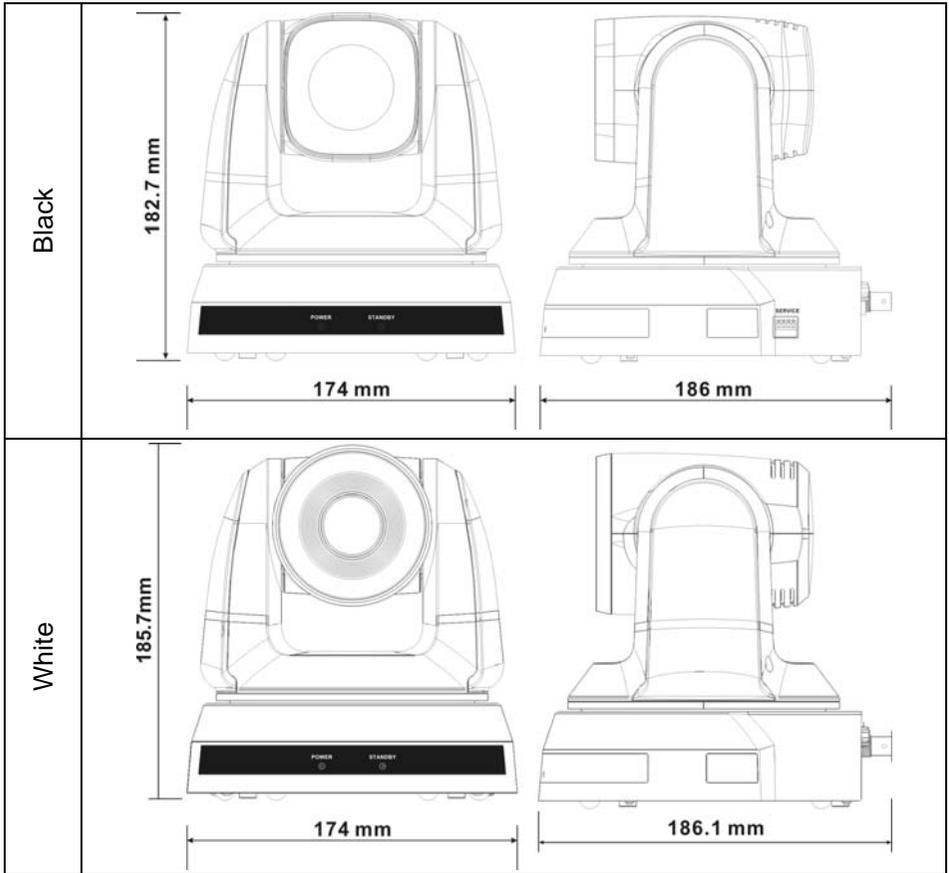
4.2.2.1 Prepare for the parts and equipment required during the installation

1. Accessories of VC-A60S 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

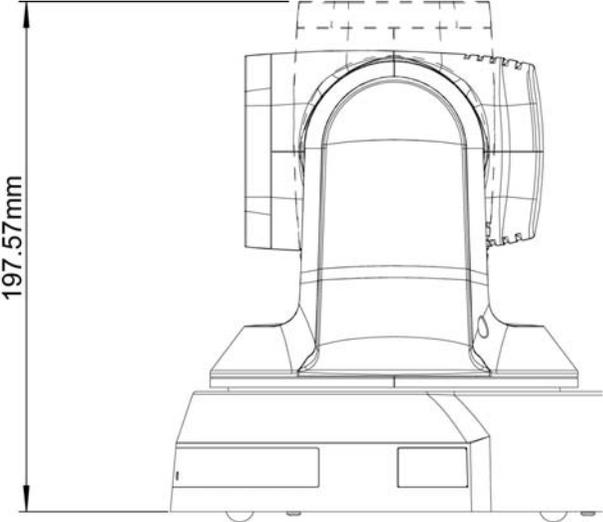
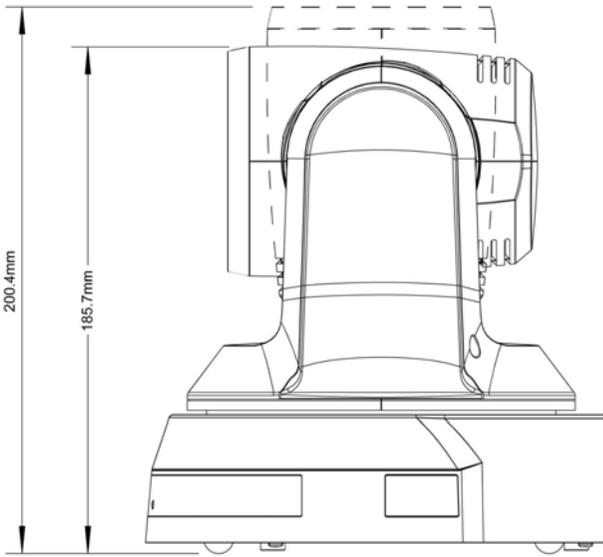
4.2.2.2 Camera Size

Length x Width x Height : 174x186x182.7mm

Weight : 2.0Kg

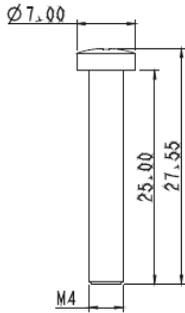


4.2.2.3 Max. rotation dimension of camera

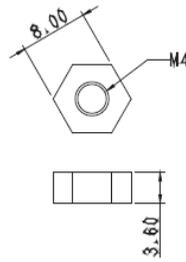
| | |
|-------|--|
| Black |  <p>197.57mm</p> |
| White |  <p>200.4mm</p> <p>185.7mm</p> |

4.2.2.4 Size Diagram

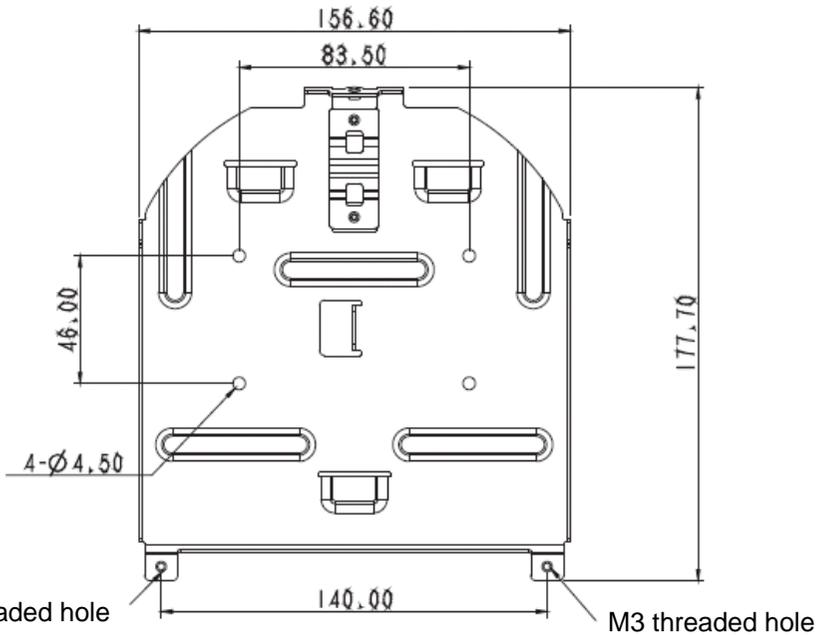
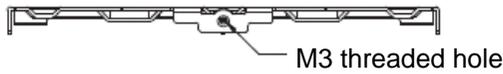
1. Metal plate B - ceiling side



Metal plate B locking screw

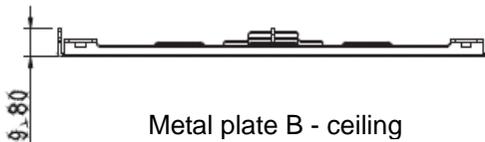


Metal plate B locking bolt



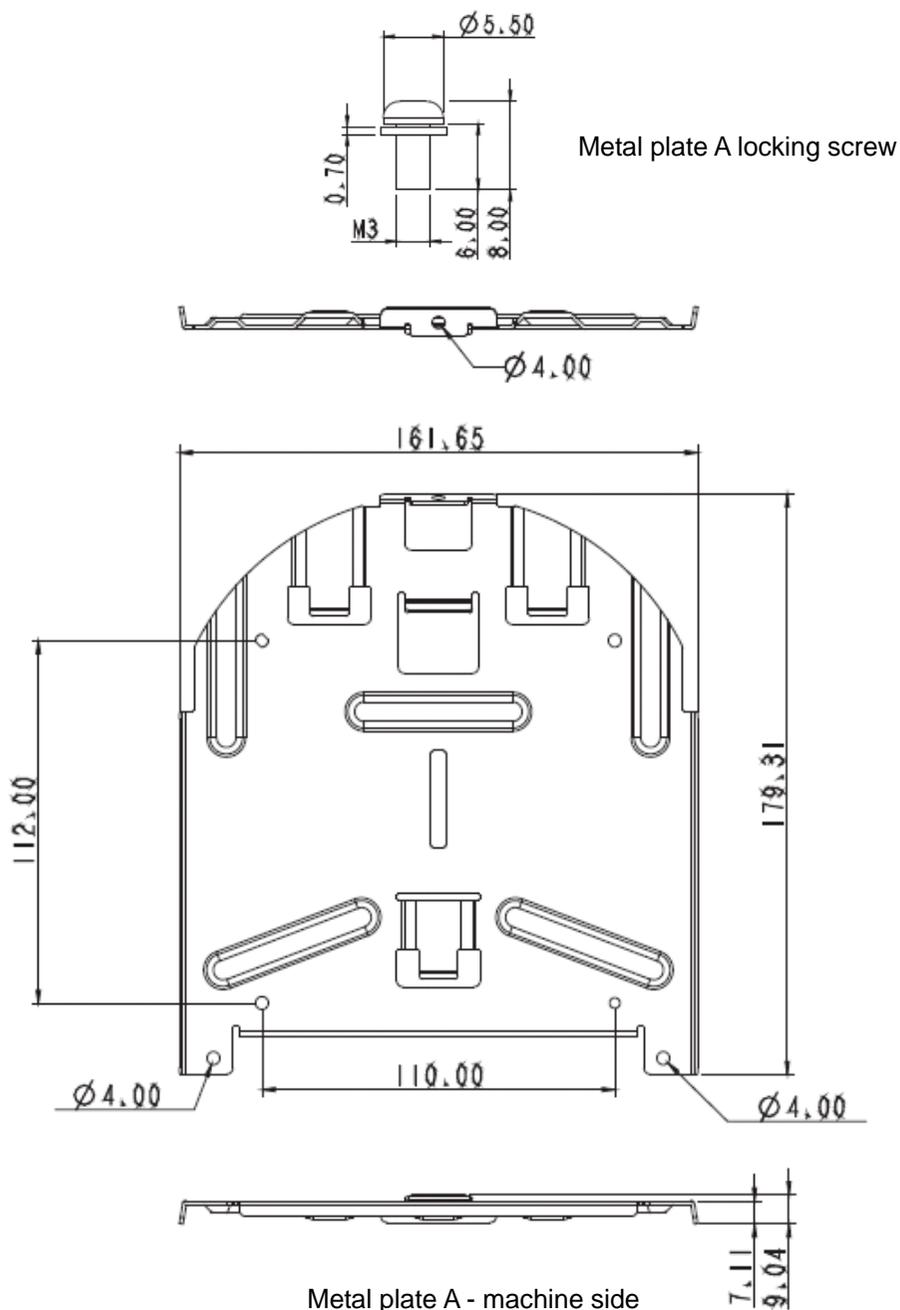
M3 threaded hole

M3 threaded hole

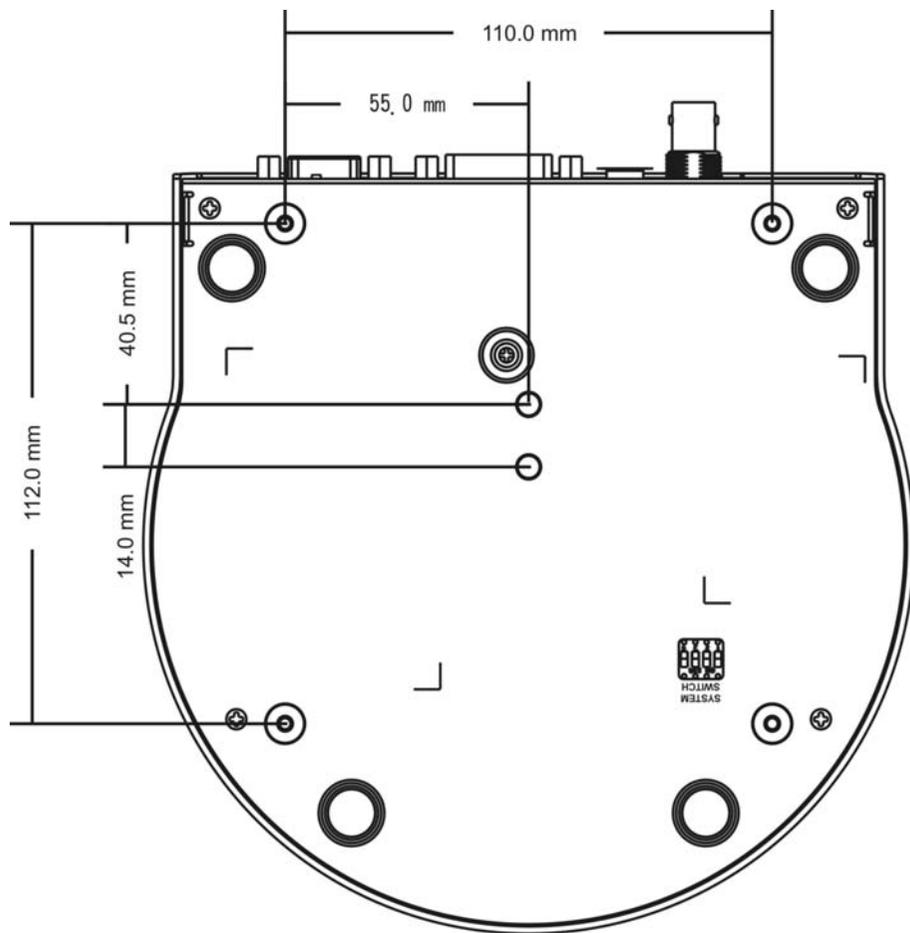


Metal plate B - ceiling

2. Metal plate A - machine side

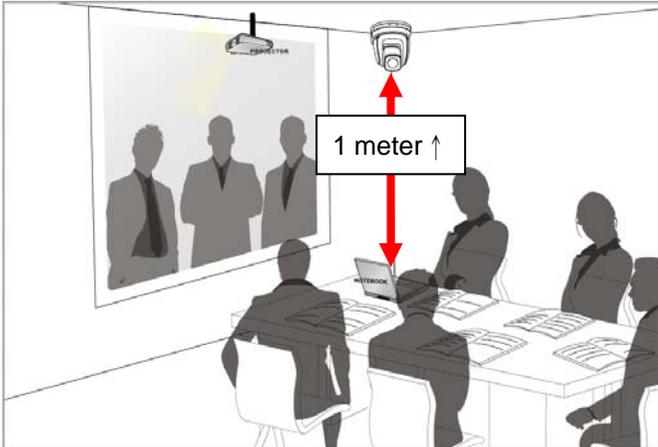


3. Bottom of machine



4.2.2.5 Precautions for installation

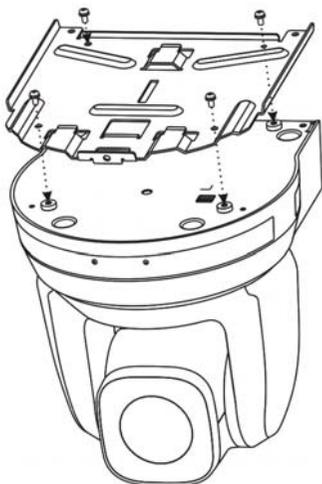
1. Before installation, please confirm the orientation of the machine relative to the object to be captured
2. It is recommended that the machine should be set at a distance of more than 1 meter away from the object to be captured. Please adjust for a best distance according to the magnification of the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



3. 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 [Chapter 7 DIP Switch Setting](#) for the relevant descriptions on DIP switch.
2. Fix the metal plate A on the machine base with 4 M3 screws



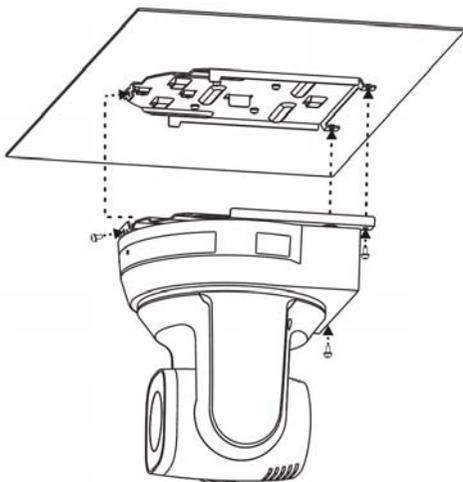
3. Lock the metal plate B on ceiling mounted hanger

※Caution:

- (1) Please use the hanger that has obtained UL security approval
- (2) Please reserve the hole for the connecting wires of the camera

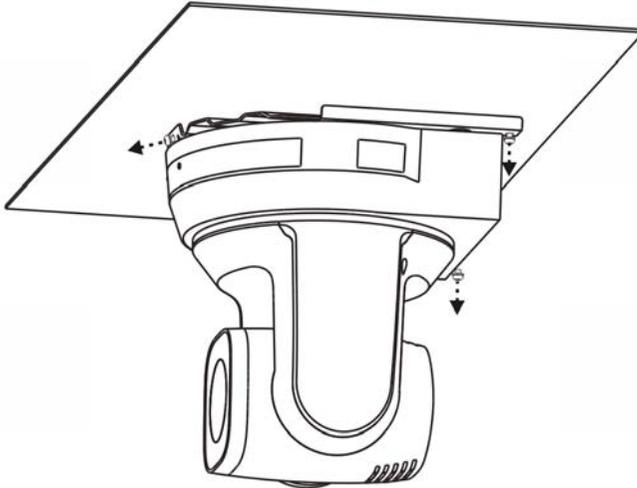
4. Combine the metal plate A and the metal plate B

- (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



4.2.2.7 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

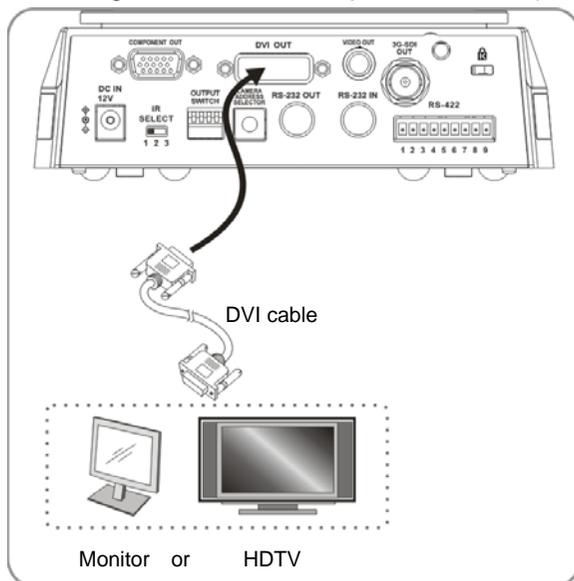


3. Then remove the screws on the hanger and the machine

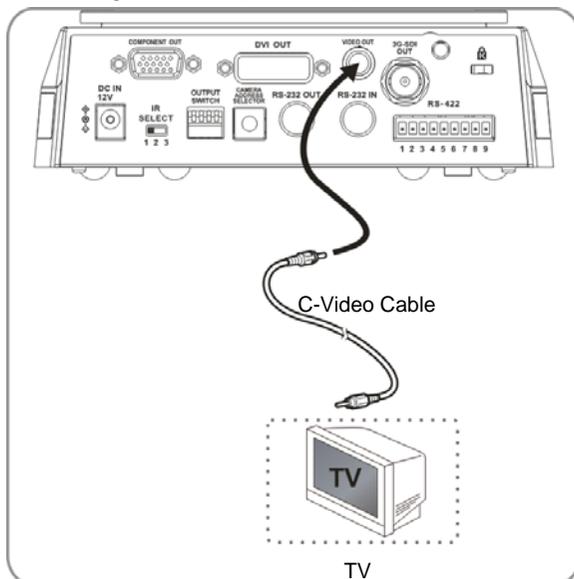
4.3 Connecting the device

4.3.1 Image Output

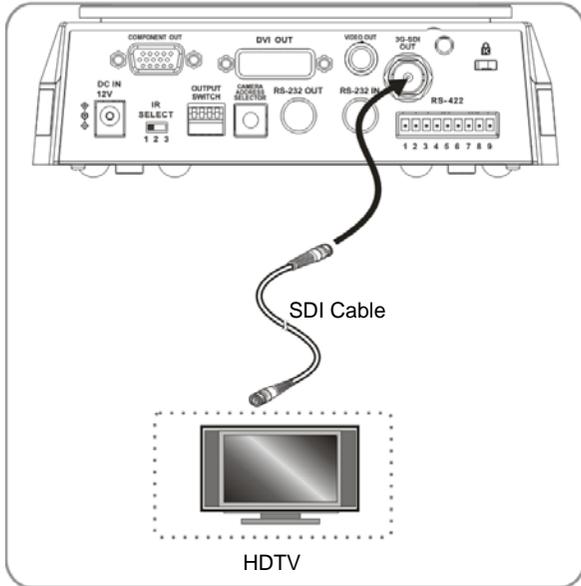
4.3.1.1 Connecting to an HDTV/computer monitor (DVI)



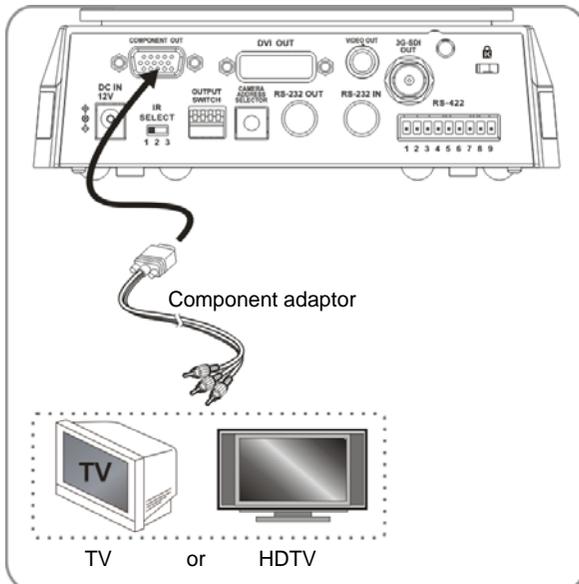
4.3.1.2 Connecting to a TV (C-Video)



4.3.1.3 Connecting to an HDTV (3G-SDI)

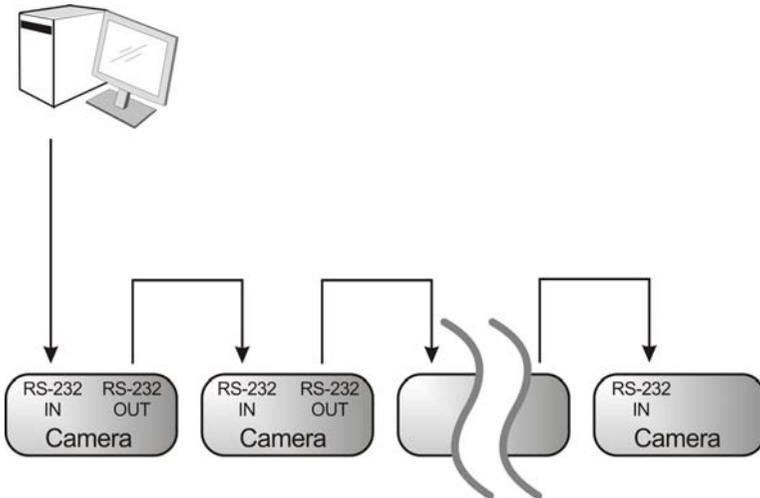


4.3.1.4 Connection to the device for image output



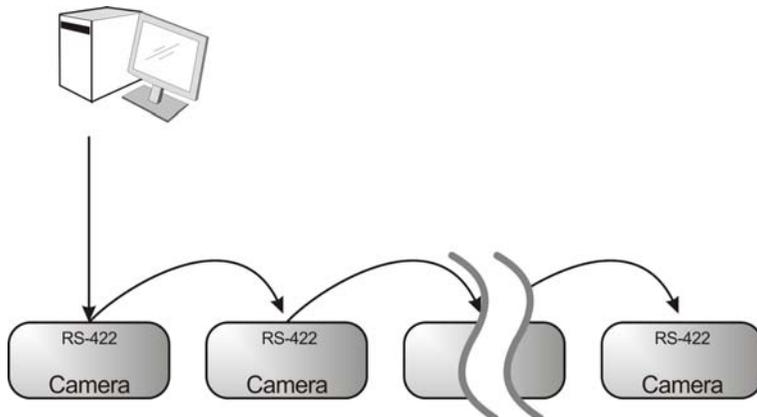
4.3.2 Controlling VCs with the computer

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)



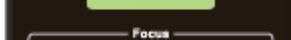
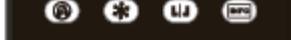
<Remark> Please refer to [7.2 RS-422 connection](#) for the RS-422 connection instructions.

<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.

| Item | Description |
|--|---|
|  | Move the lens |
|  | Turn on/off back light compensation |
|  | Select 1 ~ 3 VC-A60S |
|  | 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 / OFF / Normal |
|  | Display OSD menu |
|  | Rotate the image (OFF / Mirror / Flip / Mirror + Flip) |
|  | Clear the Pan / Tilt setting |
|  | Switch image effect (OFF / Neg / B&W) |
|  | Power Switch |
|  | Appoint an ID (0 ~ 9) to save the current position data |
|  | Appoint an ID (0 ~ 9) to delete the current position data |
|  | Adjust image size |
|  | 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.

| 1 st Level Major Items | 2 nd Level Minor Items | 3 rd Level Adjustment Values | | Function Descriptions | |
|---|--------------------------------------|---|--|--|--------------------------|
| Exposure | Mode | 1. <u>Auto</u> 2. Brightness 3. Shutter Pri 4. Iris Pri 5. Manual | | Exposure mode setting | |
| | Exposure_C omp. | <u>On</u> / Off | | AE Level | |
| | Exposure_C omp. Level | -7~ <u>C</u> ~7 | | The value can be adjusted only after Exposure_ Comp. is activated | |
| | Spot Light | On / <u>Off</u> | | The value can be adjusted when the mode is set to Full Auto or Shutter Pri | |
| | Spot Light Position | X(0~15)Y(0~15) | | The value can be adjusted only after Spot Light is activated | |
| | Shutter Pri | 60/59.94/ 30/29.97 mode | | 50/25 mode | Shutter priority setting |
| | | 1/10000 | | 1/10000 | |
| | | 1/6000 | | 1/6000 | |
| | | 1/4000 | | 1/3500 | |
| | | 1/3000 | | 1/2500 | |
| 1/2000 | | 1/1750 | | | |
| 1/1500 | | 1/1250 | | | |
| 1/1000 | | 1/1000 | | | |
| 1/725 | | 1/600 | | | |
| 1/500 | | 1/425 | | | |

| | | | | |
|--|-----------------|--|--------------------|---------------------|
| | | 1/350 | 1/300 | |
| | | 1/250 | 1/215 | |
| | | 1/180 | 1/150 | |
| | | 1/125 | 1/120 | |
| | | 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 | |
| | Iris Pri | <ol style="list-style-type: none"> 1. <u>F1.6</u> 2. F2 3. F2.4 4. F2.8 5. F3.4 6. F4 7. F4.8 8. F5.6 9. F6.8 10. F8 11. F9.6 12. F11 13. F14 14. Close | | Iris setting |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|---|--|-----------------------|-------------------------------|---------------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| Manual Gain | <ol style="list-style-type: none"> 1. 0dB 2. 3.6 dB 3. 7.1 dB 4. 10.7 dB 5. 14.3 dB 6. 17.8 dB 7. 21.4 dB 8. 25 dB 9. 28.6 dB 10. 32.1 dB 11. 35.7 dB 12. 39.3 dB 13. 42.8 dB 14. 46.4 dB 15. 50 dB | | Manually set the gain | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;">60/59.94/ 30/29.97 mode</td> <td style="width: 50%; text-align: center;">50/25 mode</td> </tr> <tr><td style="text-align: center;">1/10000</td><td style="text-align: center;">1/10000</td></tr> <tr><td style="text-align: center;">1/6000</td><td style="text-align: center;">1/6000</td></tr> <tr><td style="text-align: center;">1/4000</td><td style="text-align: center;">1/3500</td></tr> <tr><td style="text-align: center;">1/3000</td><td style="text-align: center;">1/2500</td></tr> <tr><td style="text-align: center;">1/2000</td><td style="text-align: center;">1/1750</td></tr> <tr><td style="text-align: center;">1/1500</td><td style="text-align: center;">1/1250</td></tr> <tr><td style="text-align: center;">1/1000</td><td style="text-align: center;">1/1000</td></tr> <tr><td style="text-align: center;">1/725</td><td style="text-align: center;">1/600</td></tr> <tr><td style="text-align: center;">1/500</td><td style="text-align: center;">1/425</td></tr> <tr><td style="text-align: center;">1/350</td><td style="text-align: center;">1/300</td></tr> <tr><td style="text-align: center;">1/250</td><td style="text-align: center;">1/215</td></tr> <tr><td style="text-align: center;">1/180</td><td style="text-align: center;">1/150</td></tr> <tr><td style="text-align: center;">1/125</td><td style="text-align: center;">1/120</td></tr> <tr><td style="text-align: center;">1/100</td><td style="text-align: center;">1/100</td></tr> <tr><td style="text-align: center;">1/90</td><td style="text-align: center;">1/75</td></tr> </table> | | | 60/59.94/ 30/29.97 mode | 50/25 mode | 1/10000 | 1/10000 | 1/6000 | 1/6000 | 1/4000 | 1/3500 | 1/3000 | 1/2500 | 1/2000 | 1/1750 | 1/1500 | 1/1250 | 1/1000 | 1/1000 | 1/725 | 1/600 | 1/500 | 1/425 | 1/350 | 1/300 | 1/250 | 1/215 | 1/180 | 1/150 | 1/125 | 1/120 | 1/100 | 1/100 | 1/90 |
| 60/59.94/ 30/29.97 mode | 50/25 mode | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/10000 | 1/10000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/6000 | 1/6000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/4000 | 1/3500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/3000 | 1/2500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/2000 | 1/1750 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/1500 | 1/1250 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/1000 | 1/1000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/725 | 1/600 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/500 | 1/425 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/350 | 1/300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/250 | 1/215 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/180 | 1/150 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/125 | 1/120 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/100 | 1/100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1/90 | 1/75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manual Speed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | | | | |
|--|--------------------|--|-------------|-----------------------------------|
| | | <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 | <ol style="list-style-type: none"> 1. <u>F1.6</u> 2. F2 3. F2.4 4. F2.8 5. F3.4 6. F4 7. F4.8 8. F5.6 9. F6.8 10. F8 11. F9.6 12. F11 13. F14 14. Close | | Manually set the aperture |
| | Bright | 1~ <u>C</u> ~28 | | |
| | Gain Limit | <ol style="list-style-type: none"> 1. 10.7 dB 2. 14.3 dB 3. 17.8 dB 4. 21.4 dB 5. 25 dB 6. 28.6 dB 7. 32.1 dB 8. 35.7 dB 9. 39.3 dB 10. 42.8 dB 11. 46.4 dB 12. <u>50 dB</u> | | Max. limit value of electron gain |
| | WDR | <ol style="list-style-type: none"> 1. <u>Off</u> 2. 1 3. 2 4. 3 | | WDR settings |

| | | | |
|----------------------|-------------------------|---|--|
| White Balance | Mode | <ol style="list-style-type: none"> 1. Auto 2. Indoor 3. Outdoor 4. Trigger White Balance 5. Auto White Balance 6. Manual 7. Outdoor Auto 8. Sodium Lamp Auto 9. Sodium Lamp 10. Sodium Lamp Outdoor Auto | Select the color temperature mode |
| | One Push Trigger | <u>ENTER</u> | One push trigger |
| | R-Gain | 0~ <u>C</u> ~255 | Adjustable when the white balance mode is set to Manual |
| | B-Gain | 0~ <u>C</u> ~255 | Adjustable when the white balance mode is set to Manual |
| Picture | Picture effect | <ol style="list-style-type: none"> 1. Off 2. Neg 3. B&W | Set the picture effect |
| | Sharpness | 1~ <u>A</u> ~16 | Adjust the sharpness of the image |
| | NR | <ol style="list-style-type: none"> 1. Off 2. 1 3. 2 4. 3 5. 4 6. 5 | Noise reduction setting |
| | 3D NR | <ol style="list-style-type: none"> 1. Off 2. Low 3. Typ 4. Max | 3D dynamic noise reduction settings |
| | Saturation | 0~ <u>A</u> ~14 | Adjustable when the image mode is set to Custom mode |

| | | | |
|----------------------|-------------------------|---|---|
| | Hue | 0~ <u>A</u> ~14 | Adjustable when the image mode is set to Custom mode |
| | Gamma | 1. <u>0</u> 2. <u>1</u> | Adjustable when the image mode is set to Custom mode |
| | Brightness | 0~ <u>A</u> ~31 | Adjustable when the image mode is set to Custom |
| | Contrast | 0~ <u>A</u> ~31 | Contrast adjustment; Adjustable when the image mode is set to Custom |
| | Black Level | 1. <u>Off</u> 2. Type 1 3. Type 2 4. Type 3 | Shadow details and transparency adjustment, adjustable when the image mode is set to Custom |
| Pan Tilt Zoom | 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 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 |
| | D-Zoom Limit | <u>x1</u> ~x12 | Limit the D-zoom multiple |
| | Preset Speed | 1. 5 per second 2. 25 per second 3. 50 per second 4. <u>150 per second</u> 5. 250 per second 6. 300 per second | Set the rotation speed of the cradle head when Preset is executed |
| Dig.-Effect | Mirror | 1. <u>Off</u> 2. Mirror 3. Flip 4. Mirror + Flip | Set the mode at which the image is turned |

| | | | |
|-----------------------|--|--|---|
| Auto Focus | AF Sensitivity | 1. Low 2. <u>Normal</u> | Select the AF triggering speed. The higher the speed is, the faster AF is triggered |
| | AF speed | 1. <u>Normal</u> 2. 1 3. 2 4. 3 5. 4 6. 5 | Focus speed after AF triggering |
| System | C-Video | NTSC LB | Image mode |
| | | NTSC CP | |
| | | <u>NTSC SQ</u> | |
| | | PAL LB | |
| | | PAL CP | |
| | | PAL SQ | |
| | Video Type | <u>DVI/SDI</u> | Select video output type |
| | | YPbPr | |
| | Prompt | On / <u>Off</u> | Turn on/off the prompt information on the display |
| | 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 |
| | Low Latency | On / <u>Off</u> | Turn on to reduce image delay |
| | IR Receive | <u>On</u> / Off | Turn on/off the infrared reception |
| | Language | <u>English</u> / Chinese | Language |
| Control Device | <u>Encoder</u> / Controller | Control Device setting | |
| Protocol | <u>Protocol V</u> / Protocol PD | Protocol V: VISCA Protocol PD: PELCO D | |
| PD Address | 1~ <u>C</u> ~255 | The Protocol set to PD allows the camera ID address to be assigned | |

| | | | |
|---------------|----------------------|---|------------------------------------|
| | Output Mode | <ol style="list-style-type: none"> 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 | |
| | Factory Reset | On / <u>Off</u> | 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-A60S

1. Press [**Camera 1 ~ 3**] on the **remote control** to select VC-A60S.
 - **Camera 1 ~ 3** is selected with **IR SELECT**.

6.2 I would like to save the current lens position data

1. Press [**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. Press [**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 [**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 / Medium / 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

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

6.12 I would like to change the camera direction

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

6.13 I would like to display the current status

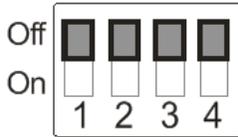
1. Press [Info] on the **remote control** to display the current status information.

Chapter 7 DIP Switch Setting

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

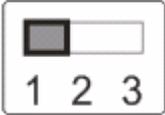
7.1 DIP SWITCH

7.1.1 OUTPUT Switch



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

7.1.2 IR SELECT



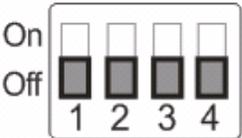
| ID | Setting |
|----|---------|
| 1 | |
| 2 | |
| 3 | |

7.1.3 Camera Address Selector



| Setting | Function Descriptions |
|---------|-----------------------|
| 0~7 | ID 0~7 |
| 8~9 | Reserved |

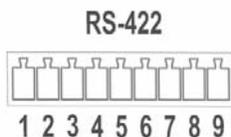
7.1.4 System Switch



| 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



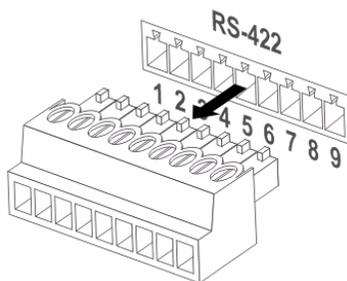
| Pin NO. | Function |
|---------|-----------|
| 1 | RXD OUT - |
| 2 | RXD OUT + |
| 3 | TXD OUT - |
| 4 | TXD OUT + |
| 5 | GND |
| 6 | RXD IN - |
| 7 | RXD IN + |
| 8 | TXD IN - |
| 9 | TXD IN + |

<Note>

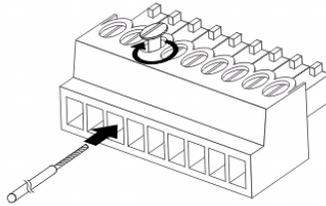
Please connect IN+ to OUT+ when connecting to SONY products. For non-SONY products, it may be necessary to connect IN+ to OUT-

7.2.2 Use RS-422 Connection

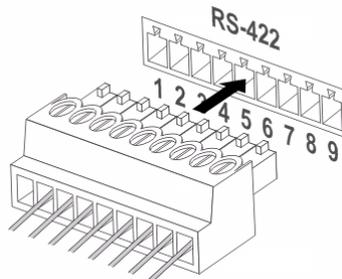
1. Hold the two sides of RS-422 connector and pull out in the direction shown by the arrow in the figure below



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-A60S. If you have questions, please refer to related chapters and follow all the suggested solutions. If the problem still occurred, please contact our distributors or service center.

| No. | Problems | Solutions |
|-----|--|---|
| 1. | Boot without power signal | <ol style="list-style-type: none">1. Make sure you have plugged in the power cord.2. Make sure the Service DIP switch is Off. |
| 2. | There is no image output from VC-A60S | <ol style="list-style-type: none">1. Check the power.2. Check if DIP switch is properly set. Please refer to 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-A60S image is severely delayed | Please use 1080p or 720p 60/50 Hz signals rather than 25/30 Hz signals. |
| 4. | Not working after changes to DIP Switch setting | After completing DIP Switch setting, unplug and reconnect the power cord and turn on the machine to change the setting. |
| 5. | VC-A60S cannot be operated by remote control | <ol style="list-style-type: none">1. Please confirm if the Camera Select on the remote control can be used together with the IR Select on VC-A60S.2. Please prevent VC-A60S 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-A60S 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. |
| 6. | The device cannot be controlled with | <ol style="list-style-type: none">1. Please consult the distributor to make sure the firmware version is the latest one. The steps to |

| | | |
|-----------|--|--|
| | Codec | <p>check version is as follows:</p> <ol style="list-style-type: none"> 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 <ol style="list-style-type: none"> 2. Make sure the connection is correct (RS-232/422 Input). 3. Make sure System Switch DIP 1 and DIP 3 are correct. |
| 7. | The device cannot be controlled with RS-232/RS422 | <ol style="list-style-type: none"> 1. Make sure the connection is correct (RS-232/422 Input). 2. Make sure System Switch DIP 1 and DIP 3 are correct. |