

Full-HD Optical Zoom PTZ

PTZ-X12-IP | PTZ-NDI-X12 | PTZ-NDI-X18W/B | PTZ-X20-IP | PTZ-NDI-X20
User Manual



V3.0

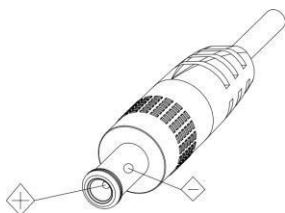
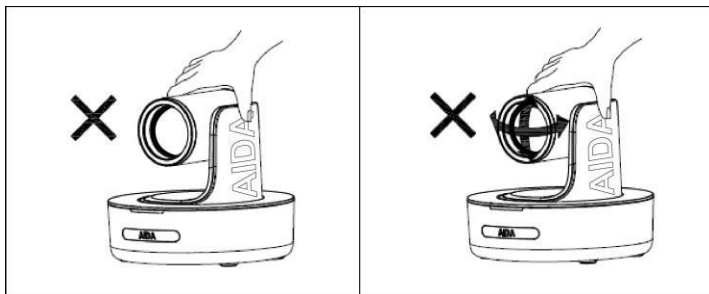
AIDA

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Packing List (CONTD)

1. Before operation, please read all the instructions in the manual carefully. For your convenience, please keep this manual.
2. The camera power input range is 100-240 VACv(50-60hz.) Ensure the power supply input is within this rate before powering it on.
3. Camera power voltage = 12VDC, rated currency=2A. We suggest you use it with the original power supply supplied in the packaging.
4. Please keep the power cable, video cable, and control cable in a dry, safe place out of any obstructions.
5. Operational environment for the camera should be: 0°C-50°C/32°F-122°F, with humidity levels less than 90%. To avoid any damage, do not place or pour anything on inside or on top of the camera.
6. Avoid placing any extra weight, stress, vibration or pressure on the camera during transportation, storage, or operation.
7. Do not remove the camera housing or cover. Any attempt to self-repair or open the camera will void all warranty.
8. Make sure the camera is on a fixed and balanced platform. Avoid any uneven surfaces.
9. Do no direct the camera towards strong / intensive light. Doing so could cause irreversible damage to the camera sensor, thus voiding all warranty on the camera.
10. Use a dry cloth to clean the camera housing, along with a neutral cleaning agent if necessary. To avoid damage on the camera lens, do not use strong or abrasive cleaning agents on the camera.
11. To avoid mechanical trouble, please do not hands to rotate the camera head. Please refrain from touching or moving the camera while its in motion, as it can cause irreversible damage to the motor mechanisms and thus voiding all warranty on the camera.



Power Supply Polarity Schematics:

⚠ Warning:

Video quality can be affected by specific frequencies of electromagnetic fields.

Packing List

Check for the items below when opening the package!

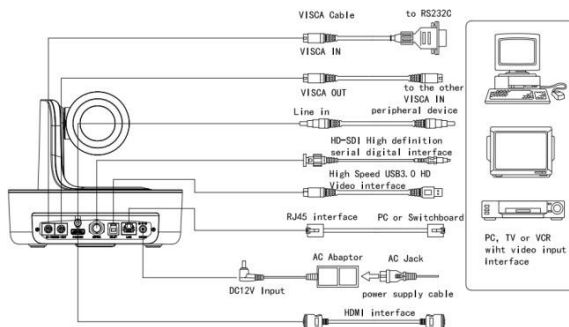
1
EA

- AIDA PTZ Camera
- Power Adapter
- Power Cable
- RS232 Control Cable
- USB 3.0 Cable
- Remote Control
- User Manual
- Double Sided Adhesive
- QC Certification
- Wall Mount

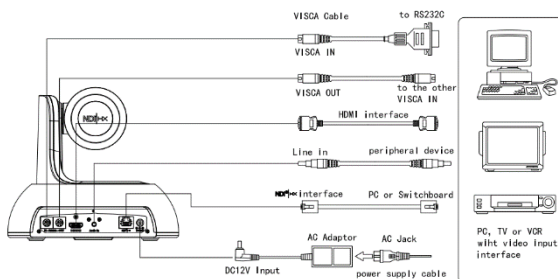
Quick Start

1. Please ensure all the cabling is correct. (PTZ Outputs may vary per model, please check the back of the camera to see which outputs you have.)

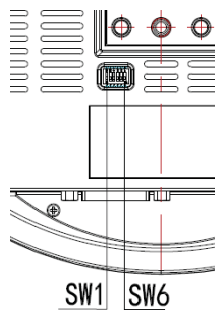
PTZ-X12/PTZ-X20 Model



PTZ-X18 Model



Packing List (CONTD)



Dial Switch (ARM)			
	SW-1	SW-2	Mode
1	OFF	OFF	Updating Mode
2	ON	OFF	Debugging Mode
3	OFF	ON	Undefined
4	ON	ON	Working Mode

Dial Switch			
	SW-3	SW-4	Instruction
1	OFF	OFF	Reserve
2	ON	OFF	Reserve
3	OFF	ON	Reserve
4	ON	ON	Reserve

Dial Switch (USB)			
	SW-5	SW-6	Instruction
1	OFF	OFF	Undefined
2	ON	OFF	Working Mode
3	OFF	ON	Updating Mode
4	ON	ON	Undefined

Product Highlights

- Contains a Sony Progressive CMOS Sensor providing 1920x1080 crisp HD resolution.
- Wide angle optical lens options: 12x / 18x / 20x optical zoom.
- Full-HD video over IP, via H.264 or H.265 encoding.
- Contains traditional outputs such as HDMI, SDI, USB3.0, and RJ-45 for RTSP/RTMP/SRT/NDI® streaming. (Outputs per model may vary.)
- Support line-in function for unbalanced 3.5mm audio.
- In-depth fully adjustable camera settings, such as exposure settings, image parameters, and white balance.
- Supports PoE+ (rated at 24V 30W) which allows for single ethernet cable for control and video over a single cable.
- Fast and precise focusing after camera head movement for no-delay video quality.
- Smooth and quiet PTZ movements for sound-sensitive rooms
- Supports up to 10 presets via the remote, or 128 presets via RS232 / web UI.
- Supports Sony Serial Visca and VISCA over IP. Also supports NDI control if applicable.
- Supports in and out Serial Daisy Chaining for up to 7 PTZ cameras.
- Menu based parameters such as image flip and mirror for stress-free installations.
- Handheld remote can also be used to switch video formats fast, as well as change camera IP via the menu.
- Free firmware updates to keep the camera up to date with the latest and greatest!
- Supports UVC control with well known conferencing softwares.
- PTZ Menu supports both English and Spanish.
- Supports NDI® | Hx transmission (PTZ-NDI-X12, PTZ-NDI-X18W/B, PTZ-NDI-X20) only.

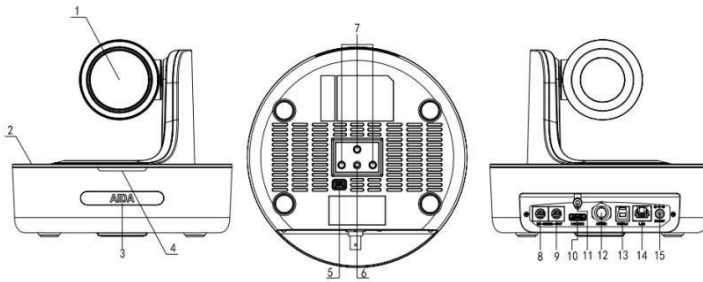
Camera Specs

Video Formats (varies per model)	HDMI	1920 x 1080 60p/59.94p/50p/30p/29.97p/25p/24p/23.98 1920 x 1080 60i/59.94i/50i 1280 x 720 60p/59.94p/50p/30p/29.97p/25p
	SDI	1920 x 1080 60p/59.94p/50p/30p/29.97p/25p/24p/23.98 1920 x 1080 60i/59.94i/50i 1280 x 720 60p/59.94p/50p/30p/29.97p/25p
	USB	1920 x 1080 60/50/30/25 1280 x 720 60/50/30 1280 x 720 60p/59.94p/50p/
	RJ-45	PTZ-NDI-X12: 1920 x 1080 @ 3 ~ 60 1280 x 720 @ 3 ~ 60 PTZ-NDI-X20: 1920 x 1080 @ 3 ~ 60 1280 x 720 @ 3 ~ 60 PTZ-NDI-X18: 1920 x 1080 @ 3 ~ 30, 1280 x 720 @ 3 ~ 30

Camera Specs (CONTD)

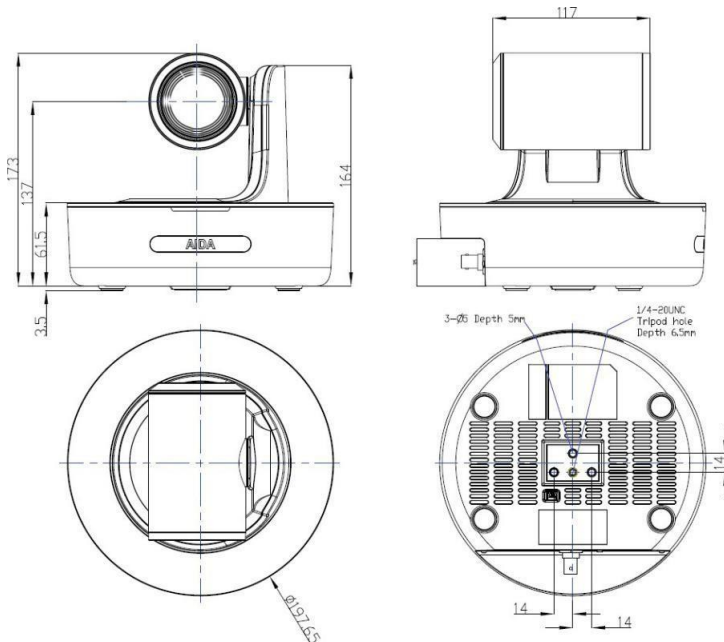
Video Interface	HDMI (V1.4) 3G-SDI, RJ-45, USB 3.0
Sensor	SONY Progressive CMOS Sensor
Zoom	12x, 18x or 20x Optical Zoom
Lens	Field of view per lens: (X12) 79°(wide) ~6.8°(Tele) (Subject at 20ft from camera) (X18) 57°(wide) ~4.2°(Tele) (Subject at 20ft from camera) (X20) 57°(wide) ~3.3°(Tele) (Subject at 20ft from camera) Focal Length and Fstop no.: (X12) f=3.92(near)~47.32mm(far), F1.8(Wide)~2.8 (Tele) (X18) f=5.2(near)~90mm(far), F1.5(Wide)~3.0 (Tele) (X20) f=5.2(near)~98mm(far), F1.5(Wide)~3.0 (Tele)
Rotation Angle	Pan: -170°~+170°; Tilt: -30°~+90°
Rotation Speed	Pan: 0°~120°/s; Tilt: 0°~80°/s
Preset	Remote Controller: 10 RS-232: 128
Control Port	RS-232, RJ-45 (VISCA over IP), USB 3.0 (UVC 1.5), USB 2.0 (UVC 1.1)
Network Speed	1000M
Video Encode	H.264/H.265 (default: H.264)
Bit Rate Control	Variable Bit Rate, Constant Bit Rate
Video Bit Rate	1024kbps(min)~16384 kbps(max)
IP Protocol	IP, HTTP, RTSP, RTMP, DCHP, ONVIF, VISCA over IP, NDI®
Line in	Supporting ACC audio coding
Daisy Chain	Support RS-232 serial daisy chain
Minimum Lux	0.01 Lux
White Balance	Auto/Manual/Indoor/Outdoor/One Push
Exposure	Auto/Manual/Bright/Shutter/Iris
Focus	Auto/Manual
Iris	Auto/Manual
Anti-Flicker	OFF/50Hz/60Hz
Image Voltage	DC12V/PoE+ (24V 30W)
Dimension	220mm x 173mm x 190mm/8.66" x 6.81" x 7.48"
Net Weight	1.4kg/3.1lbs

Camera Interface PTZ-X12, X20

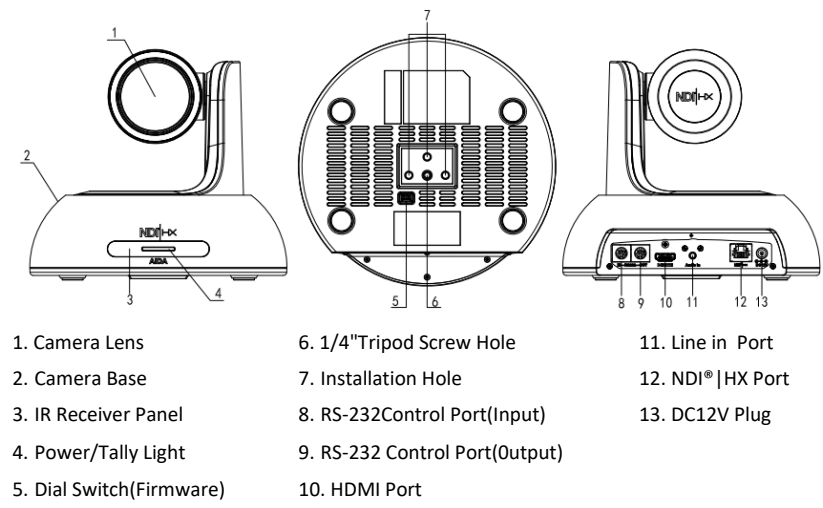


- | | | |
|--------------------------------------|----------------------------|---|
| 1. Camera Lens | 6. ¼" tripod mounting hole | 11. 3.5 Unbalanced Passive Line in port |
| 2. Camera Base | 7. WM Installation Holes | 12. 3G-SDI Output |
| 3. IR receiver panel | 8. RS-232 Control Input | 13. USB Port |
| 4. Power/Tally Indicator | 9. RS-232 Control Output | 14. RJ-45 Port |
| 5. Dial Switches (AIDA support only) | 10. HDMI Output | 15. DC12V Plug-in port |

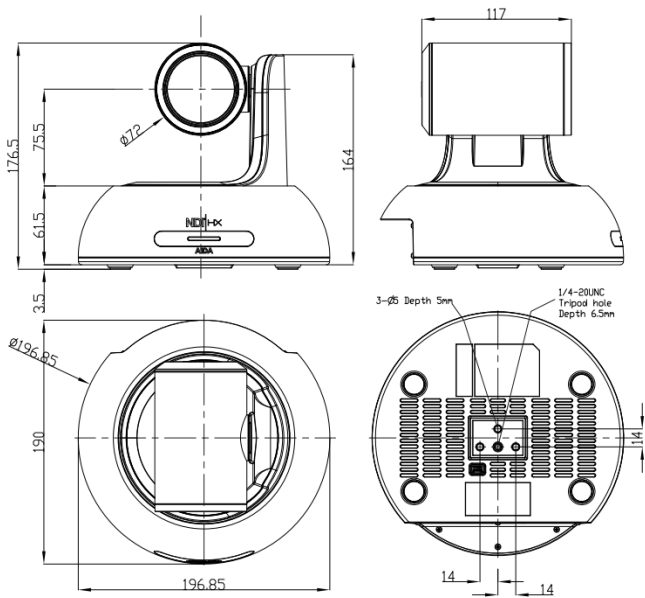
Camera Dimensions PTZ-X12, X20 (in mm)



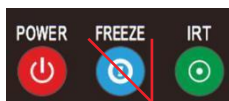
Camera Interface PTZ-X18



Camera Dimensions PTZ-X18 (in mm)



IR Remote Controller



Power

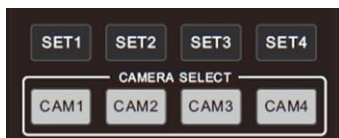
When powered on, pressing the power key will enter the camera into Standby mode. Pressing it again will start up the camera. *Note: This is not any means of shutting off the camera, it only shuts down the motor mechanics. Video will still display.

Freeze (No Function)

The freeze button has no functionality.

IRT (IR Transfer/IR Pass)

Enables IR Transferring onto 4 separate signals. Best used when operating multiple PTZ's in same line of sight.

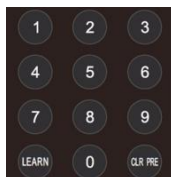


SET 1~4 Address Setting:

Hold the SET# button to set the cameras IR address.

CAM 1~4 Buttons:

Pressing the CAM# button will enable the IR control of the selected IR Address.



Number Keys (0-9)

Setting Presets: To set a preset, hold down a key (0-9) and wait 3 seconds. Once complete, the preset will be saved to that #.

Recalling Presets: Pressing a key (0-9) will recall the corresponding preset saved to that number.

Clearing Presets (CLR PRE)

Clearing Prests: To clear a preset, press CLR PRE and the #.

Learn (LEARN)

Currently has no independent function. Used with other funcs.

IR Remote Controller (CONTD)



Focus Adjustments (+/-)

Tapping the + or – will set the camera to manual focus for a set precise focus adjustment.

Zoom Control (+/-)

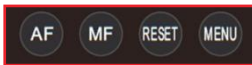
Tapping the + or – will zoom in or out the camera head.

Camera head Control (Up/Down/Left/Right)

Tapping the directional buttons will adjust the PTZ head accordingly. If menu is open, these can be used to navigate it.

Resetting the Camera Head (OK)

Pressing the OK button will reset the PTZ head to HOME. IF menu is open, this can be used to enter sub-menus.



Auto Focus (AF)

When enabled, the camera will automatically focus on the object in the center of the camera.

Manual Focus (MF)

When enabled, the camera will remain the same unless adjusted by the +/- focus keys.

Resetting Image Settings (RESET)

Press to reset all image parameters.

Accessing the Camera's Menu (MENU)

Press Menu to enter the camera settings.



Limiting Camera Movement (LIMIT L/R/CLR)

You can adjust the pan / tilt threshold by pressing the LIMIT L and LEARN button to set the Left (LIMIT L) or Right (LIMIT R) threshold. You can use LIMIT CLR to reset this.

(SCAN)

Currently has no function.



Video Format Keys (Blue buttons at the bottom)

Allows for hot swapping specific resolutions when needed. Simply hold the blue button corresponding to the resolution you want and it will change. (Only works on HDMI/SDI outputs only.)

OSD MENU

1. To enter the menu, simply use the handheld remote and press the MENU key to enter the menu.
2. To navigate the menu, please use the directional keypad.
3. Press the RIGHT directional keypad to enter a submenu. Press the LEFT directional keypad or MENU button to exit a submenu or main menu.

OSD MENU LIST:

PTZF	FOCUS MODE	AUTO/MANUAL: Ability to change from auto or manual focus	DEFAULT: AUTO
	DIGITAL ZOOM	ON/OFF: Ability to digitally zoom 2X. (PTZ-X12-IP PTZ-NDI-X12 only)	DEFAULT: OFF
	RATIO DISPLAY	ON/OFF: Grants display of the zoom X module. Off by default.	DEFAULT: OFF
	ZOOM SPEED	Zoom speed control IR remote: 7 changeable levels.	DEFAULT: 5
	SPEED BY ZOOM	When zoomed into the max, the camera will adjust very slow.	DEFAULT: ON
	PAN/TILT SPEED	Pan/Tilt speed control by IR remote. Controllable at different levels	DEFAULT: 18
	FREEZE PRESET	During preset movement, freeze the image for smooth transitions (SDI/HDMI only)	DEFAULT: OFF
	PRESET SPEED	Adjust the speed at which it will take to get to the next preset	DEFAULT: 15
	RETURN	Return to previous menu.	
EXPOSURE	EXPOSURE MODE	AUTO/MANUAL/BRIGHT/SHUTTER/IRIS: Choose the current Exp. Mode	DEFAULT: AUTO
	SHUTTER	Set shutter speed. 1/30-1/10000: Allows for tuning of the shutter speed	DEFAULT: AUTO
	IRIS	Set Iris: CLOSE-F1.8: Allows for tuning of the Iris opening.	DEFAULT: AUTO
	GAIN	Set gain: 0dB-28dB: Allows for tuning the gain of the camera	DEFAULT: AUTO
	BRIGHTNESS	Set brightness: 0-15: Allows for tuning the brightness of the camera	DEFAULT: AUTO
	FLICK	Allows for adjustment of the flickerless options on the camera	DEFAULT: 50Hz
	BLACKLIGHT	Allows for the enabling of the backlight or not.	DEFAULT: OFF
	GAMMA	Allows setting changes for the Gamma option of the camera	DEFAULT: 0
	RETURN	Return to previous menu	
IMAGE	WB MODE	AUTO/INDOOR/OUTDOOR/PUSH/ATW/MANUAL/	DEFAULT: ATW
	BLUE	Set red gain level: 0-255 (Allows for precise tuning of the blue setting)	DEFAULT: AUTO
	RED	Set blue gain level: 0-255 (Allows for precise tuning of the red setting)	DEFAULT: AUTO
	MIRROR	ON/OFF: Makes the image flip on the vertical plane	DEFAULT: OFF
	FLIP	ON/OFF: (optional) Makes the image flip on the horizontal plane	DEFAULT: OFF
	COLOR/B&W	COLOR/B&W: Allows for B&W color mode	DEFAULT: COLOR
	GAIN LIMIT	Allows you to cap the gain at a certain level	DEFAULT: 15

OSD MENU (CONTD)

QUALITY	2DNR	When enabled, image noise and sharpness is reduced	DEFAULT: OFF
	3DNR	OFF/AUTO/0-4 optional: higher level = less image reduction happens	DEFAULT: AUTO
	SHARPNESS	ON/OFF optional, 0-15 level: higher level = sharper edges of image	DEFAULT: 6
	CONTRAST	Set contrast level: 0-15: Sets the contrast level	DEFAULT: 8
	SATURATION	Set image saturation: 0-15: Sets the saturation level	DEFAULT: 8
	BRIGHTNESS	Set brightness of auto exposure: 0-15: Sets the brightness level	DEFAULT: 8
	WDR	ON/OFF: Enables better to light and dark images	DEFAULT: OFF
	WDR LEVEL	1-6: Enables more control of WDR	DEFAULT: 1
	RETURN	Return to previous menu	
FORMAT	SIZE	1080p/1080i/720p (default resolution: 1080 30p)	After selecting format, press OK to switch format.
	FRAME RATE	60/59.94/50/30/29.97/25/24/23.98	
	RETURN	Return to previous menu	
SYSTEM	ID	Set VISCA control address 1-7	DEFAULT: 1
	BAUDRATE	Set RS-232 baud rate to 2400/4800/9600/115200	DEFAULT: 9600
	LANGUAGE/IDIOMA	Set language: ENGLISH/SPANISH	DEFAULT: ENG
	DHCP	IP address automatic acquisition switch: ON/OFF	DEFAULT: OFF
	IP	Set camera IP	192.168.1.188
	NET MASK	Set camera net mask	255.255.255.0
	GATEWAY	Set camera gateway	192.168.1.1
	RETURN	Return to previous menu	
INFO	IP ADDRESS	Display the current IP address	
	RTSP URL	Display the current main stream RTSP URL	
	F/W VERSION	Display the current ISP firmware version	
	ARM VERSION	Display the current ARM firmware version	
	FPGA VERSION	Display the current FPGA firmware version	
	USB VERSION	Display the current USB firmware version	
RESET	FACTORY RESET	Reset whole camera to factory parameters	
	USER SETTING	Save current parameters for User Reset use	
	USER RESET	Recalls the saved user settings	
	RETURN	Return to previous menu	

Web Settings

The camera's web UI can be accessed via Google Chrome, Firefox, IE, Safari, Opera, or any other major internet browsers.

1. Logging in:

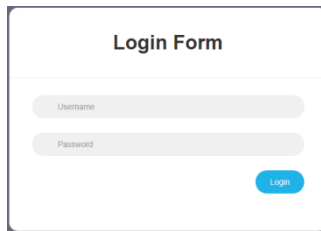
Open your browser and in the address bar, type in the Camera's IP address:

Default IP: 192.168.1.188. If changed, enter that specific IP address.

Default Username: admin

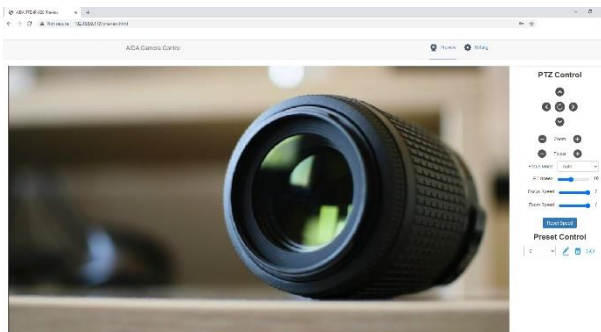
Default Password: admin

*If you are having trouble logging in, please contact AIDA Imaging support.

A screenshot of the camera's login form. It features a white background with a dark border. At the top, the text "Login Form" is centered. Below it, there are two input fields: "Username" and "Password", each with a light gray border and a small eye icon to toggle visibility. A blue "Login" button is positioned to the right of the password field.

2. Real-time Previewing:

When logging in, you will get a real time image preview of the camera via our HTTP protocol.



On the right is the control interface. You can control the camera's movements with the directional buttons, as well as adjust the zoom and focus of the camera via the corresponding +/- buttons. Feel free to adjust the speed at which the camera focuses and adjusts via the slider bars as well. You will also find the Preset control to create or recall presets via the web UI.

Near the bottom of the preview is a main and substream player, as well as the option to do a picture in picture preview for adjustable movement of the preview.

Web Settings (CONTD)

Settings:

Clicking the “Settings” button at the top right will enter the cameras web UI settings.

Video Encode:

Under Video Encode, you will have access to adjust the main and sub video parameters of the camera. This will also adjust the quality of your RTSP, RTMP, SRT and NDI® (if applicable.)

Stream	Main	Sub
Enable	☒	☒
Encode Mode	H.264	H.264
Profile	MP	MP
RTSP Address	rtsp://192.168.2.188:554/stream/main	rtsp://192.168.2.188:554/stream/sub
Resolution	1920x1080	1280x720
Bitrate(kbps) (1024-16384)	4096	2048
Framerate	30	30
Bitrate Control	CBR	CBR
I Frame Interval (3-120)	30	30

Save

Option Descriptions:

Encode Mode: Allows for H.264 or H.265 for better compression streaming (Will not work for NDI and SRT)

Profile: Set the encoding profile mode for the camera.

MP: Main Profile – Used for web streaming.

Baseline: Baseline Profile – Used for streaming to legacy devices.

HP: High Profile – Use for recording purposes with other softwares.

Resolution: Set the resolution of the stream.

Bitrate: Set the bitrate of the camera via (kbps) Higher bitrate = better performance, but can lag a slower system. Lower bitrate = stable performance, but at a loss of quality.

Framerate: Change your streams framerate.

Bitrate Control: Choose between CBR or VBR. (CBR Recommended for stable streams)

I-Frame Interval: Adjust the time inbetween key-frames. Doubling your current framerate is recommended.

Web Settings (CONTD)

Video Transmission Settings:

Under video transmission, you will find the options to adjust your RTMP, SRT, or NDI® streams.

RTMP Setting:

RTMP can be used to stream directly to social media sites such as Youtube, Vimeo, and Facebook Live. To utilize this, please follow the following steps:

1. For better results, please ensure your PTZ is in DHCP mode and connected to the internet.
2. Next obtain the live RTMP address from your website. It should look something like the (?) found on the page.
3. Place the live RTMP address in the RTMP address slot.
4. Next, ensure there is a forward slash after the RTMP address. (/)
5. Lastly, paste the stream key if necessary.
6. Click Save.

RTMP Setting

Stream Main Sub

Enable ☐ ☒ ☐ ☒

RTMP Address

[Save](#)

NDI Setting®:

Here you can adjust your cameras NDI settings. (if applicable to your camera)

NDI

Enable ☒

Name

Groups

Discovery Server ☐

[Save](#)

Option Descriptions:

Name: Change the name that shows up on NDI Studio monitor for manageable multi-cam setups.

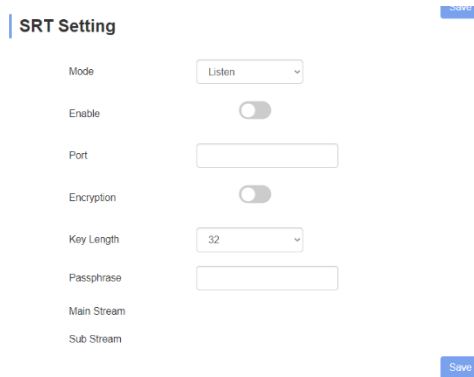
Groups: Adjust the NDI group it is categorized in. (Default: public)

Discovery Server: For multiple subnets, set a dedicated NDI PC that hosts a discovery service to connect to, regardless of where you are on the router chain. Enter the NDI PC's IP below.

Web Settings (CONTD)

SRT Settings:

In this menu, you can setup a SRT stream to any given software / SRT player.



The screenshot shows the 'SRT Setting' web interface. It features a title bar with 'SRT Setting' and a 'Cancel' button. Below the title bar, there are several settings: 'Mode' with a dropdown menu set to 'Listen'; 'Enable' with a toggle switch turned on; 'Port' with an empty text input field; 'Encryption' with a toggle switch turned on; 'Key Length' with a dropdown menu set to '32'; 'Passphrase' with an empty text input field; 'Main Stream' and 'Sub Stream' with empty text input fields. At the bottom right, there is a 'Save' button.

Option Descriptions:

Mode: Change the SRT mode into Listener or Caller.

Port: Enter the SRT port number here.

Encryption: Allows for an encrypted SRT stream.

Key Length: If Encryption is selected, choose the keylength of the password.

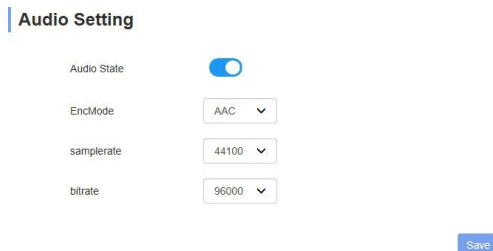
Passphrase: Enter the encryption password for the software to connect to the camera.

Main Stream / Sub Stream: Will populate once complete.

Caller mode will look different than this. To get a better idea on how to setup a SRT stream, head to our Youtube at youtube.com/aidaimaging for tutorials!

Audio Settings:

In the "audio settings" tab, audio can be turned off or on. You are also able to adjust the encode mode, samplerate, and bitrate.



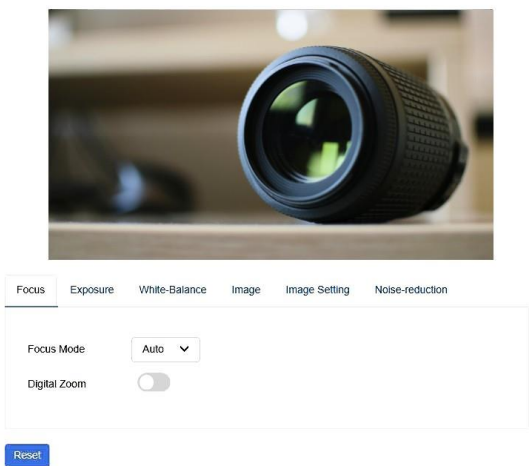
The screenshot shows the 'Audio Setting' web interface. It features a title bar with 'Audio Setting' and a 'Cancel' button. Below the title bar, there are several settings: 'Audio State' with a toggle switch turned on; 'EncMode' with a dropdown menu set to 'AAC'; 'samplerate' with a dropdown menu set to '44100'; and 'bitrate' with a dropdown menu set to '96000'. At the bottom right, there is a 'Save' button.

Web Settings (CONTD)

Image Parameters Settings:

In this menu, you can adjust the same parameters found from the OSD menu. All settings will save over the OSD settings.

Image Parameter



Ethernet Settings:

In this menu, you can adjust ethernet settings of the camera. Below are the standard settings found on the camera by default. Please power cycle the camera after clicking “save.”

DHCP	OFF	DNS	192.168.1.1
IP Address	192.168.1.188	HTTP Port	80
Netmask	255.255.255.0	RTSP Port	554
Gateway	192.168.1.1	VISCA over IP	52381

Use the RTSP Encrypt option to encrypt your RTSP streams.

Reset to Default:

In this menu, you can reset some of the cameras settings.

Reset Simply: Reset ONLY image parameters. IP Settings will remain the same.

Reset Completely: Factory reset the whole camera – will default IP address.

Reboot: Does not reset anything, simply just restarts the camera.

Reset to default

Reset simply

To reset the image parameter

Reset completely

To reset all parameter and reboot the device

Reboot

Web Settings (CONTD)

Account Settings:

In the account settings, you can change the account name and password from the default. If you lose your new account / password, you will have to contact AIDA support for help, so don't forget to write it down!

Account Setting

Account	
Password	
Confirm Password	

Ok

System Time:

In the system time tab, you can adjust the timezone of each clock to sync them.

System Time Settings

Time Zone	UTC
NTP Enable	☐
NTP Update Interval	1h
NTP Server Address	us.pool.ntp.org
NTP Port	80

Save

VISCA over IP

VISCA over IP:

Our PTZ's use VISCA over IP to reliably send and receive information from any standard VISCA over IP controller!

Information of Communications port:

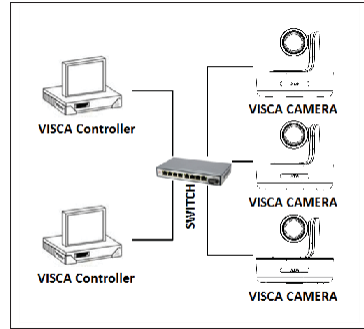
Control Port: RJ-45 LAN connection

IP Protocol: IPv4

Transmission Protocol: UDP

IP Address: *depends on your camera's IP

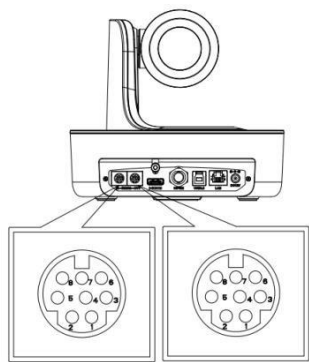
Port Address: 52381



What is VISCA over IP?

Simply put, VISCA over IP is the magic behind the communications between controller and PTZ cameras! These VISCA commands are sent via UDP protocol. Since UDP transmission isn't stable, a couple of steps must occur before a movement is executed. First, the controller will send out a VISCA command to our camera. Our camera will then receive and send back the same command to the controller. Once the commands are confirmed – the movement will be executed. At the end, a message back to the controller will confirm the action was actually done. Each VISCA command controls its own settings, as there could be no overlaps of existing commands. Luckily, this happens instantaneously so there is no lag when using VISCA over IP!

VISCA RS232



1	DTR
2	DSR
3	TXD
4	GND
5	RXD
6	A
7	IR OUT
8	B

VISCA IN & Mini DIN Connection

Camera VISCA IN		Mini DIN	
1	DTR	1	DSR
2	DSR	2	DTR
3	TXD	5	RXD
4	GND	4	GND
5	RXD	3	TXD
6	A(+)	6	NC
7	IR OUT	7	NC
8	B(-)	8	NC

VISCA IN & DB9 Connection

Camera VISCA IN		Windows DB9	
1	DTR	6	DSR
2	DSR	4	DTR
3	TXD	2	RXD
4	GND	5	GND
5	RXD	3	TXD
6	A(+)		
7	IR OUT		
8	B(-)		

Serial Port Configuration

Parameter	Value	Parameter	Value
Baud Rate	2400/4800/9600/115200	Stop Bit	1 Bit
Start Bit	1 Bit	Check Bit	None
Date Bit	8 Bit		

VISCA Protocol

For whole updated list, please reach out to our support team!

Part 1: Camera Return Command

ACK/Completion Message		
	Command Packet	Note
ACK	z0 41 FF	Returned when the command is accepted
Completion	z0 51 FF	Returned when the command has been executed

z= camera address +8

Error Messages		
	Command Packet	Note
Syntax Error	z0 60 02 FF	Returned when the command format is different or when a command with illegal command parameters is accepted
Command Not Executable	z0 61 41 FF	Returned when the command cannot be executed due to current conditions. For example, when commands controlling the focus manually are received during auto focus.

Part 2: Camera Control Command

AddressSet	Broadcast	88 30 01 FF	Address setting
IF_Clear	Broadcast	88 01 00 01 FF	I/F Clear
CommandCancel		8x 21 FF	
CAM_Power	On	8x 01 04 00 02 FF	Power ON/OFF
	Off	8x 01 04 00 03 FF	
CAM_Zoom	Stop	8x 01 04 07 00 FF	
	Tele(Standard)	8x 01 04 07 02 FF	
	Wide(Standard)	8x 01 04 07 03 FF	
	Tele(Variable)	8x 01 04 07 2p FF	p=0(low)~7(high)
	Wide(Variable)	8x 01 04 07 3p FF	
	Direct	8x 01 04 47 0p 0q 0r 0s FF	pqrs: Zoom Position (0 (wide)~0x4000(tele))
	Direct with speed	8x 0A 04 47 0t 0p 0q 0r 0s FF	t: spd 0~7 pqrs: Zoom Position (0(wide)~0x4000(tele))
	Separate Mode	81 01 04 36 01 FF	Separate with optical zoom control

VISCA Protocol (CONTD)

CAM_DZoom	Stop	81 01 04 06 00 FF	Enable in separate mode
	Tele(Variable)	81 01 04 06 2p FF	Enable in separate mode
	Wide(Variable)	81 01 04 06 3p FF	Enable in separate mode
	Direct	81 01 04 46 0p 0q 0r 0s FF	Enable in separate mode
CAM_Focus	Stop	8x 01 04 08 00 FF	
	Far(Standard)	8x 01 04 08 02 FF	
	Near(Standard)	8x 01 04 08 03 FF	
	Far(Variable)	81 01 04 08 2p FF	p=0 (Low) to 7 (High)
	Near (Variable)	81 01 04 08 3p FF	p=0 (Low) to 7 (High)
	Direct	8x 01 04 48 0p 0q 0r 0s FF	pqrs: Focus Position
	Auto Focus	81 01 04 38 02 FF	
	Manual Focus	81 01 04 38 03 FF	
CAM_ZoomFocus	One Push AF	8x 01 04 18 01 FF	
	Direct	8x 01 04 47 0p 0q 0r 0s 0t 0u 0v 0w FF	pqrs: Zoom Position (0(wide)~0x4000(tele)) tuvw: Focus Position
CAM_WB	Auto	8x 01 04 35 00 FF	
	Indoor	8x 01 04 35 01 FF	
	Outdoor	8x 01 04 35 02 FF	
	One Push	8x 01 04 35 03 FF	
	ATW	8x 01 04 35 04 FF	
	Manual	8x 01 04 35 05 FF	
	Sodium lamp	8x 01 04 35 08 FF	
	Flourescent	8x 01 04 35 09 FF	
	One Push Trigger	8x 01 04 10 05 FF	
CAM_RGain	Reset	8x 01 04 03 00 FF	Manual Control of RGain
	Up	8x 01 04 03 02 FF	
	Down	8x 01 04 03 03 FF	
	Direct	8x 01 04 43 00 00 0p 0q FF	pq: RGain (0~0xFF)
CAM_BGain	Reset	8x 01 04 04 00 FF	Manual Control of BGain
	Up	8x 01 04 04 02 FF	
	Down	8x 01 04 04 03 FF	
	Direct	8x 01 04 44 00 00 0p 0q FF	pq: BGain (0~0xFF)

VISCA Protocol (CONTD)

CAM_AE	Full Auto	81 01 04 39 00 FF	Automatic Exposure mode
	Manual	81 01 04 39 03 FF	Manual Control mode
	Shutter Priority	81 01 04 39 0A FF	Shutter Priority Automatic Exposure mode
	Iris Priority	81 01 04 39 0B FF	Iris Priority Automatic Exposure mode
	Bright	81 01 04 39 0D FF	Bright Mode (Manual control)
CAM_Shutter	Reset	8x 01 04 0A 00 FF	Shutter Setting
	Up	8x 01 04 0A 02 FF	
	Down	8x 01 04 0A 03 FF	
	Direct	8x 01 04 4A 00 00 0p 0q FF	pq: Shutter Position (0~0x15)
CAM_Iris	Reset	8x 01 04 0B 00 FF	Iris Setting (0~0x0D)
	Up	8x 01 04 0B 02 FF	
	Down	8x 01 04 0B 03 FF	
	Direct	8x 01 04 4B 00 00 0p 0q FF	pq: Iris Position (0~0x0D)
CAM_Gain	Reset	8x 01 04 0C 00 FF	Gain Setting (0~0x0E)
	Up	8x 01 04 0C 02 FF	
	Down	8x 01 04 0C 03 FF	
	Direct	8x 01 04 0C 00 00 0p 0q FF	pq: Gain Position (0~0x0E)
CAM_Bright	Reset	8x 01 04 0D 00 FF	Bright Setting
	Up	8x 01 04 0D 02 FF	
	Down	8x 01 04 0D 03 FF	
	Direct	8x 01 04 4D 00 00 0p 0q FF	pq: Bright Position (0~0x1B)
CAM_ImageBright	Direct	8x 01 04 A4 00 00 0p 0q FF	pq: Image Bright Position (0~0x0F) AE_AUTO/AE_SHUTTER/AE_IRIS
CAM_WDR	On	8x 01 04 3D 02 FF	Exposure Compensation ON/OFF
	Off	8x 01 04 3D 03 FF	
	Direct	8x 01 04 D3 pq FF	pq: ExpComp Position (0~0x6)
CAM_Backlight (BLC)	On	8x 01 04 33 02 FF	Blacklight On
	Off	8x 01 04 33 03 FF	Blacklight Off
CAM_Sharpness	Reset	8x 01 04 02 00 FF	Aperture Control
	Up	8x 01 04 02 02 FF	
	Down	8x 01 04 02 03 FF	
	Direct	8x 01 04 42 00 00 0p 0q FF	pq: Aperture Gain (0~0x0F)

VISCA Protocol (CONTD)

CAM_Memory (preset)	Reset	8x 01 04 3F 00 0p FF	p: Preset Number (=0 to 128) Corresponds to 0-9 on the remote controller
	Set	8x 01 04 3F 01 0p FF	
	Recall	8x 01 04 3F 02 0p FF	
CAM_LR_Reverse	On	8x 01 04 61 02 FF	Image Flip Horizontal On/Off
	Off	8x 01 04 61 03 FF	
CAM_PictureFlip	On	8x 01 04 66 02 FF	Image Flip Horizontal On/Off
	Off	8x 01 04 66 03 FF	
CAM_RS485Ctl	On	8x 01 06 A5 02 FF	
	Off	8x 01 06 A5 03 FF	
CAM_Saturation	Saturation	8x 01 04 A1 00 00 0p 0q FF	pq: Saturation Level 0x00~0xff
CAM_Contrast	Contrast	8x 01 04 A2 00 00 0p 0q FF	pq: Contrast Level 0x00~0xff
CAM_SpeedByZoom	On	8x 01 06 A0 02 FF	
	Off	8x 01 06 A0 03 FF	
CAM_PTSpeed	PT Speed	8x 01 04 C1 00 00 0p 0q FF	pq: PT Speed 0x05~0x18
CAM_ZoomSpeed	Zoom Speed	8x 01 04 D1 00 00 0p 0q FF	pq: Zoom Speed 0x01~0x07
CAM_ZoomDisplay	On	8x 01 06 C2 02 FF	
	Off	8x 01 06 C2 03 FF	
CAM_IRaddress	IR address	8x 01 06 D8 0p FF	p: IR address1~4
CAM_Gamma	Gamma set	81 01 04 5B 0p FF	p: Gamma No. (0~4)
CAM_ColorGain	Direct	8x 01 04 49 00 00 0p FF	(0~0xE)
CAM_2DNR	Direct	8x 01 04 A5 0p FF	(0~0x1)
CAM_3DNR	Direct	8x 01 04 53 0p FF	(0~0x05)
FLICK	50Hz	81 01 04 23 01 FF	
	60Hz	81 01 04 23 02 FF	
	OFF	81 01 04 23 00 FF	

VISCA Protocol (CONTD)

VideoSystem Set (AIDA)		8x 01 06 35 00 pp FF	pp: Video Format: 1080P60 0x00 1080P50 0x01 1080i60 0x02 1080i50 0x03 1080P30 0x 04 1080P25 0x05 720P60 0x 06 720P50 0x07 720P30 0x08 720P25 0x09 1080P5994 0x0E 1080i5994 0x0F 1080P2997 0x10 720P5994 0x13 720P2997 0x14 1080P24 0x11 1080P2398 0x12
VideoSystem Set (Sony)		81 01 04 24 72 0p 0q FF	pp: Video Format: 1080P60 0x2e 1080P50 0x2f 1080i60 0x01 1080i50 0x04 1080P30 0x06 1080P25 0x08 720P60 0x09 720P50 0x0c 720P30 0x0e 720P25 0x11 1080P5994 0x13 1080i5994 0x02 1080P2997 0x07 720P5994 0x0a 720P2997 0x0f 1080P24 0x2a 1080P2398 0x2b
CAM_IDWrite		8x 01 04 22 0p 0q 0r 0s FF	pqrs: Camera ID (=0000 to FFFF)
DHCP control	DHCP off	8x 01 04 AE 00 FF	DHCP off
	DHCP on	8x 01 04 AE 01 FF	DHCP on
Main Stream	Resolution	8x 01 04 C2 00 0p 0q 0r 0s 0m 0n 0x 0y FF	pqrs: Column(x size) mnx: Line (y size) only support: 1920x1080/1280x720
	Rate	8x 01 04 C2 01 0p 0q 0r 0s 0m 0n 0x 0y FF	pqrsmnx: bitrate (0~15360)
Sub Stream	Resolution	8x 01 04 C3 00 0p 0q 0r 0s 0m 0n 0x 0y FF	pqrs : Column(x size) mnx: Line (y size) only support: 1280x720/1024x576/640x360
	Rate	8x 01 04 C3 01 0p 0q 0r 0s 0m 0n 0x 0y FF	pqrsmnx: bitrate (0~15360)
Tally Control	Off	8x 01 7E 01 0A 00 0p FF	p: 0: OFF(LED off) 1: (LED green on) 2: (LED red on) 4: (LED blue on)
IP address control	IP Set	8x 01 04 AB 0p 0q 0r 0s 0m 0n 0x 0y FF	Set ip to :pq.rs.mn.xy
	Mask	8x 01 04 AC 0p 0q 0r 0s 0m 0n 0x 0y FF	Set mask to :pq.rs.mn.xy
	Gateway set	8x 01 04 AD 0p 0q 0r 0s 0m 0n 0x 0y FF	Set gateway to :pq.rs.mn.xy
Color adjust	Color Adjust OFF	8x 01 04 B6 00 FF	Color adjust off
	Color Adjust ON	8x 01 04 B6 01 FF	Color adjust on
	Brightness Balance OFF	8x 01 04 B7 00 FF	Keep Brightness
	Brightness Balance ON	8x 01 04 B7 01 FF	Don't Keep Brightness

VISCA Protocol (CONTD)

Color adjust	Flare red	8x 01 04 B8 dat FF	Flare mode red value (Default=32)
	Flare green	8x 01 04 B9 dat FF	Flare mode green value (Default=32)
	Flare blue	8x 01 04 BA dat FF	Flare mode blue value (Default=32)
SYS_Menu	Menu On	8x 01 06 06 02 FF	Turn on menu
	Menu Off	8x 01 06 06 03 FF	Turn off menu
	Menu Back	8x 01 06 06 10 FF	Menu step back
	Menu Ok	8x 01 7E 01 02 00 01 FF	Menu ok
IR_Receive	On	8x 01 06 08 02 FF	IR(remote commander)receive ON/OFF
	Off	8x 01 06 08 03 FF	
	On/Off	8x 01 06 08 10 FF	
Pan_TiltDrive	Up	8x 01 06 01 VV WW 03 01 FF	VV: Pan speed 0x01 (low speed) to 0x18 (high speed) WW: Tilt speed 0x01 (low speed) to 0x14 (high speed) YYYY: Pan Position(TBD) ZZZZ: Tilt Position(TBD)
	Down	8x 01 06 01 VV WW 03 02 FF	
	Left	8x 01 06 01 VV WW 01 03 FF	
	Right	8x 01 06 01 VV WW 02 03 FF	
	Upleft	8x 01 06 01 VV WW 01 01 FF	
	Upright	8x 01 06 01 VV WW 02 01 FF	
	Downleft	8x 01 06 01 VV WW 01 02 FF	
	Downright	8x 01 06 01 VV WW 02 02 FF	
	Stop	8x 01 06 01 VV WW 03 03 FF	
	Absolute Position	8x 01 06 02 VV WW 0Y 0Y 0Y 0Z 0Z 0Z FF	
	Relative Position	8x 01 06 03 VV WW 0Y 0Y 0Y 0Y 0Z 0Z 0Z FF	
	Home	8x 01 06 04 FF	
	Reset	8x 01 06 05 FF	
Pan Tilt_LimitSet	Set	8x 01 06 07 00 0W 0Y 0Y 0Y 0Y 0Z 0Z 0Z FF	PW: 1: UpRight 0:DownLeft YYYY: Pan Limit Position(TBD) ZZZZ: Tilt Limit Position(TBD)
	Clear	8x 01 06 07 01 0W 07 0F 0F 0F 07 0F 0F FF	

VISCA Protocol (CONTD)

Part 3: Inquiry Command

Command Type	Command	Return	Note
CAM_PowerInq	8x 09 04 00 FF	y0 50 02 FF	On
		y0 50 03 FF	Off (Standby)
CAM_ZoomPosInq	8x 09 04 47 FF	y0 50 0p 0q 0r 0s FF	pqrs: Zoom Position
CAM_Focus ModelInq	8x 09 04 38 FF	y0 50 02 FF	Auto Focus
		y0 50 03 FF	Manual Focus
CAM_FocusPosInq	8x 09 04 48 FF	y0 50 0p 0q 0r 0s FF	pqrs: Focus Position
CAM_WBModelInq	8x 09 04 35 FF	y0 50 00 FF	Auto
		y0 50 01 FF	Indoor Mode
		y0 50 02 FF	Outdoor Mode
		y0 50 03 FF	OnePush Mode
		y0 50 04 FF	ATW
		y0 50 05 FF	Manual
CAM_RGainInq	8x 09 04 43 FF	y0 50 00 00 0p 0q FF	pq: R Grain
CAM_BGainInq	8x 09 04 44 FF	y0 50 00 00 0p 0q FF	pq: B Grain
CAM_AEModelInq	8x 09 04 39 FF	y0 50 00 FF	Full Auto
		y0 50 03 FF	Manual
		y0 50 0A FF	Shutter Priority
		y0 50 0B FF	Iris Priority
		y0 50 0D FF	Bright
CAM_Shutter PosInq	8x 09 04 4A FF	y0 50 00 00 0p 0q FF	pq: Shutter Position
CAM_IrisPosInq	8x 09 04 4B FF	y0 50 00 00 0p 0q FF	pq: Iris Position
CAM_GainPosInq	8x 09 04 4C FF	y0 50 00 00 0p 0q FF	pq: Gain Position
CAM_BrightPosInq	8x 09 04 4D FF	y0 50 00 00 0p 0q FF	pq: Bright Position
CAM_ImageBright PosInq	8x 09 04 A4 FF	y0 50 00 00 0p 0q FF	pq: ImageBright Position
CAM_SaturationInq	8x 09 04 A1 FF	y0 50 00 00 0p 0q FF	pq: Saturation level 0x00~0x0f
CAM_DefogInq	8x 09 04 A3 FF	y0 50 0p FF	p: Defog level 0x00~0x0f
CAM_ContrastInq	8x 09 04 A2 FF	y0 50 00 00 0p 0q FF	pq: Contrast level 0x00~0x0f
CAM_WDRModelInq	8x 09 04 3D FF	y0 50 02 FF	On
		y0 50 03 FF	Off
CAM_WDRPosInq	8x 09 04 2D FF	8x 01 04 02 03 FF	pq: WDR LEVEL Position 1~6

VISCA Protocol (CONTD)

Command Type	Command	Return	Note
CAM_ApertureInq	8x 09 04 42 FF	y0 50 00 00 0p 0q FF	p: Aperture Gain
CAM_FlickerInq	8x 09 04 AA FF	y0 50 0p FF	p: Flick mode 0:off 1:50Hz 2:60Hz
CAM_2DNRIrq	8x 09 04 A5 FF	y0 50 0p FF	p: 2DNR: 0=OFF 1= AUTO 2
CAM_3DNRIrq	8x 09 04 53 FF	y0 50 0p FF	p: 3DNR: 0=OFF 1= AUTO 2~5=Manual Level
CAM_GammaInq	8x 09 04 5B FF	y0 50 0p FF	p: Gamma Position
CAM_MemoryInq	8x 09 04 3F FF	y0 50 pp FF	pp: Memory number last operated
SYS_MenuModelInq	8x 09 06 06 FF	y0 50 02 FF	On
		y0 50 03 FF	Off
CAM_LR_Reverse Inq	8x 09 04 61 FF	y0 50 02 FF	On
		y0 50 03 FF	Off
CAM_PictureFlipInq	8x 09 04 66 FF	y0 50 02 FF	On
		y0 50 03 FF	Off
CAM_IDInq	8x 09 04 22 FF	y0 50 0p 0q 0r 0s FF	pqrs: Camera ID
CAM_DHCPInq	8x 09 04 AE FF	y0 50 pp FF	
CAM_IPInq	8x 09 04 AB FF	y0 50 0p 0p 0q 0q 0r 0r 0s 0s FF	
CAM_MASKInq	8x 09 04 AC FF	y0 50 0p 0p 0q 0q 0r 0r 0s 0s FF	
CAM_GATEWAYInq	8x 09 04 AD FF	y0 50 0p 0p 0q 0q 0r 0r 0s 0s FF	
CAM_FlareModelInq	8x 09 04 B6 FF	y0 50 pp FF	
CAM_FlareBright ModelInq	8x 09 04 B7 FF	y0 50 pp FF	
CAM_FlareRed	8x 09 04 B8 FF	y0 50 pp FF	
CAM_FlareGreen	8x 09 04 B9 FF	y0 50 pp FF	
CAM_FlareBlue	8x 09 04 BA FF	y0 50 pp FF	
CAM_VersionInq	8x 09 00 02 FF	y0 50 ab cd mn pq rs tu vw FF	
VideoSystemInq (AIDA)	8x 09 06 23 FF	y0 50 pp FF	pp: Video position
VideoSystemInq (Sony)	8x 09 04 24 72 FF	y0 50 0p 0p FF	pp: Video position
IR_Transfer	8x 09 06 1A FF	y0 50 02 FF	On
		y0 50 03 FF	Off
TallyInq	8x 09 7E 01 0A FF	y0 50 0p FF	p: tally state
IR_Receive	8x 09 06 08 FF	y0 50 02 FF	On
		y0 50 03 FF	Off
IR_ReceiveReturn		y0 07 7D 01 04 00 FF	Power ON/OFF

VISCA Protocol (CONTD)

Command Type	Command	Return	Note
IR_ReceiveReturn		y0 07 7D 01 04 00 FF	Zoom tele/wide
		y0 07 7D 01 04 07 FF	AF On/Off
		y0 07 7D 01 04 33 FF	CAM_Backlight
		y0 07 7D 01 04 3F FF	CAM_Memory
		y0 07 7D 01 06 01 FF	Pan_tiltDrive
Pan-tiltMaxSpeed Inq	8x 09 06 11 FF	y0 50 ww zz FF	ww: PanMaxSpeed zz: Tilt Max Speed
Pan-tiltPosInq	8x 09 06 12 FF	y0 50 0w 0w 0w 0z 0z 0z 0z FF	www: PanPosition zzzz: Tilt Position
Mainstream ResolutionInq	8x 09 04 C2 00 FF	y0 50 0p 0q 0r 0s 0m 0n 0x 0y FF	pqrs : Column(x size) mnx: Line (y size) only supports: 1920x1080
MainstreamRate Inq	8x 09 04 C2 01 FF	y0 50 0p 0q 0r 0s 0m 0n 0x 0y FF	pqrsmnx: bitrate (0~15360)
Substream ResolutionInq	8x 09 04 C3 00 FF	y0 50 0p 0q 0r 0s 0m 0n 0x 0y FF	pqrs : Column(x size) mnx: Line (y size) only supports: 1280x720/1024x576/640x360
SubstreamRateInq	8x 09 04 C3 01 FF	y0 50 0p 0q 0r 0s 0m 0n 0x 0y FF	pqrsmnx: bitrate (0~15360)

Note: [x] refers to camera address; [y] = [x +8]

VISCA Pan Tilt Absolute Position Value

Pan Angle	VISCA Value	Tilt Angle	VISCA Value
-170	0xF67D	-30	0xFE50
-135	0xF868	0	0x0000
-90	0xFAF0	30	0x0180
-45	0xFD78	60	0x0360
0	0x0000	90	0x510
45	0x0288		
90	0x0510		
135	0x0798		
170	0x0990		

VISCA Pan Tilt Speed Value

Pan Degree/Second			
0	0.3	0.3	.03
1	1	1	1
2	1.5	1.5	1.5
3	2.2	2.2	2.2
4	2.4	2.4	3.6
5	2.6	2.6	4.7
6	2.8	2.8	6
7	3.0	3.0	8
8	3.2	3.2	10
9	3.4	3.4	12
10	3.8	3.8	15
11	4.5	4.5	18
12	6	6	23

Pan Degree/Second			
13	9	13	30
14	15	14	39
15	19	15	48
16	25	16	59
17	32	17	69
18	38	18	80
19	45		
20	58		
21	75		
22	88		
23	105		
24	120		

UVC Control

AIDA PTZ's also support UVC interface.

PU_BRIGHTNESS_CONTROL	81 01 04 4d 00 00 0p 0q FF
PU_CONTRAST_CONTROL	81 01 04 A2 00 00 0p 0q FF
PU_SATURATION_CONTROL	81 01 04 A1 00 00 0p 0q FF
PU_SHARPNESS_CONTROL	8x 01 04 42 00 00 0p 0q FF
PU_GAMMA_CONTROL	8x 01 04 5B 0p FF
PU_WHITE_BALANCE_TEMPERATURE_CONTROL	8x 01 04 35 0X FF
PU_BLACKLIGHT_COMPENSATION_CONTROL	81 01 04 33 02/03 FF
PU_POWER_LINE_FREQUENCY_CONTROL	8x 01 04 AA 00/01/02 FF
CT_ZOOM_ABSOLUTE_CONTROL	8x 01 04 47 0p 0q 0r 0s FF
CT_PANTILT_ABSOLUTE_CONTROL	8x 01 06 02 VV WW 0Y 0Y 0Y 0Y 0Z 0Z 0Z F
CT_PANTILT_RELATIVE_CONTROL	8x 01 06 01 pp qq rr ss FF
CT_ZOOM_RELATIVE_CONTROL	8x 01 04 07 pp FF

Warranty

Our Promise:

AIDA Imaging warrants all its cameras and accessories to be free from defects under normal use for a period of two years after purchase date. IF proof of purchase cannot be provided during a warranty claim, AIDA Imaging reserves the right to not honor the warranty set above. Therefore, labor and parts may be charged to the consumer. For more info on our warranty, please refer to our website at:

aidaimaging.com/warranty

Support:

If you would like additional support or explanation on anything related to our product, please feel free to our website at aidaimaging.com for more info!

We have Youtube tutorials located at youtube.com/aidaimaging.

Reach out to us!:

Our contact information can be seen below:

Telephone: 909.333.7421

Email Address: support@aidaimaging.com

We are also reachable during our normal operating business hours:

Open Yearly, Mon-Fri from 8AM to 5PM PST, excluding major holidays and events.

Also, feel free to subscribe to our newsletter which keeps you up to date on the latest and greatest firmwares we can release for your PTZ!

AIDA

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