



DL30/DL50

User Manual



Federal Communications Commission Statement

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radiofrequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning - This is a class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

This Class A digital apparatus complies with Canadian ICES-003.

Caution

Risk of explosion if battery is replaced by an incorrect type. Dispose of used batteries in a safe and proper manner.

Remote Control Battery Safety Information

- Store batteries in a cool and dry place.
- Do not throw away used batteries in the trash. Properly dispose of used batteries through specially approved disposal methods.
- Remove the batteries if they are not in use for long periods of time. Battery leakage and corrosion can damage the remote control. Dispose of batteries safely and through approved disposal methods.
- Do not use old batteries with new batteries.
- Do not mix and use different types of batteries: alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium).
- Do not dispose of batteries in a fire.
- Do not attempt to short-circuit the battery terminals.

DISCLAIMER

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NOTICE

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE. THE INFORMATION CONTAINED HEREIN IS TO BE CONSIDERED FOR REFERENCE ONLY.

WARNING

- To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture. Warranty will be void if any unauthorized modifications are done to the product.
- Do not drop the camera or subject it to physical shock.
- Use the correct power supply voltage to avoid the damaging camera.
- Do not place the camera where the cord can be stepped on as this may result in fraying or damage to the lead or the plug.
- Hold the bottom of the camera with both hands to move the camera. Do not grab the lens or lens holder to move the camera.







More Help

For FAQs, technical support, software and user manual download, please visit:

<u>Global</u>

Download Center: <u>https://www.aver.com/download-center</u> Technical Support: <u>https://www.aver.com/technical-support</u>

USA

Download Center: <u>https://www.averusa.com/pro-av/support/</u> Technical Support: <u>https://averusa.force.com/support/s/contactsupport</u>

<u>Europe</u>

Download Center: <u>https://www.avereurope.com/download-center</u> Technical Support: <u>https://www.avereurope.com/technical-support</u>

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*Only for Japan

Camera Mount Suggestions (Optional Accessories)

For details on optional accessories, consult your local dealer.

Wall mount USA: Part#PTMLTWM01 Other countries: Part#60S5000000AC Ceiling mount USA: Part#PTMLTCM02 Other countries: Part#60S5000000AB





Product Introduction

Overview



(1) Camera Lens	(4) Kensington Lock	(7) USB Port		
(2) IR Sensor	(5) Audio In*	(8) DC Power Jack		
(3) LED Indicator	(6) HDMI Port**	(9) PoE+ Port***		

*Line input level: 1Vrms (max)

*Mic input level: 50mVrms (max); Supplied voltage: 3.3V

**DL30 does not support HDMI port.

***Only support IEEE 802.3at PoE+ standard.

LED Indicator

LED	Status
Blue (Blinking every 2 seconds)	Tracking On
Blue (Solid)	Normal Operation and Tracking Off
Orange (Blinking)	Camera Initialization
Orange (Solid)	Standby Mode
Red (Blinking)	Firmware Update

Pan and Tilt Angle





Dimension



3

Cable Fixing Plate Installation



(1) Secure the cable fixing plate to the camera with two M2 x 4mm screws in the package.



[Note] DL30 does not support HDMI port.

Device Connection



PoE+ Connection

Connect the camera to the router or switch through the PoE+ port.

[Note] Only support IEEE 802.3at PoE+ standard.



HDMI Connection

Use the HDMI cable to connect with monitor or TV for video output.



[Note]

- 1. DL30 does not support HDMI port.
- HDMI monitor can be connected to camera and output live video. Assuming HDMI monitor is well connected before the camera is turned on, the OSD menu will be displayed on HDMI monitor in default.

Audio Input Connection

Connect the audio device for audio receiving.

[Note]

- 1. Line input level: 1Vrms (max)
- 2. Mic input level: 50mVrms (max); Supplied voltage: 3.3V
- Because video conferencing software such as Google Hangouts (Windows), Skype (Mac), or Teams (Windows and Mac) can automatically adjust volume, the user might experience randomly unstable volume while using the camera.



Ceiling Mount Installation (Optional)

- Use two M2 x 4mm screws (in the DL camera package) to secure the cable fixing plate (in the DL camera package) to the camera. Plug in cables. Use four cable ties (in the DL camera package) to secure the cables and cable fixing plate.
- 2. Use four M4 (L≥10mm) screws (not supplied) to secure the mount bracket on the ceiling.
- 3. Use three 1/4"-20, L=7.5mm screws (in the ceiling mount kit) to install another mount bracket on the camera.
- 4. Slide the mount bracket with the camera into the mount bracket secured on the ceiling.
- 5. Use three M3 x 6mm screws (in the ceiling mount kit) to secure the camera.



Wall Mount Installation (Optional)

- Use two M2 x 4mm screws (in the DL camera package) to secure the cable fixing plate (in the DL camera package) to the camera. Plug in cables. Use four cable ties (in the DL camera package) to secure the cables and cable fixing plate.
- 2. Use the drilling paper included in the package to drill the holes in the wall where the user wants to mount the camera.
- Use the screws (not included) to secure the L-mount bracket on the wall.
 [Note] For cement wall: M4 x 20mm self-tapping screws (x4) + plastic conical anchor For wooden wall: M4 x 20mm self-tapping screws (x4)
- 4. Then, assemble the L-mount brackets + with 2 screws (M4 x 8mm, included in the package).





 After assembling the L-mount brackets, use the screws (not included) to secure the lower part of L-mount brackets on the wall.

[Note] For cement wall: M4 x 20mm self-tapping screws (x2) + plastic conical anchor For wooden wall: M4 x 20mm self-tapping screws (x2)

- 6. Pass the cables through the hole on the L-mount brackets and connect the cables to corresponding connection ports.
- 7. Use the remaining screw (1/4"-20, L=7.5mm, included in the package) to secure the camera on the L-mount brackets.







Tracking Setup

- Distance range to podium: 8~9m is suggested.
- Tracking distance for upper body: 2~16m; tracking distance for full body: 3~28m.
- Suggested setup position: center of classroom.
- Install height range (from floor): 2~3m; 2.4m is suggested.
- No human outline on poster/screen/monitor/TV in the background.
- No more than three people in a single camera view.



Remote Control

The remote control requires two "AAA" size batteries. Make sure batteries are installed properly before use.

POWER MENU	-2	Name	Function		
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	- 3 - 5 - 6	(1) Power	 Turn the unit on/standby/privacy: Press once to turn on privacy mode. Press again to turn off privacy mode. Long press for 3 seconds to turn on standby mode. Short press again to turn off standby mode. 		
8 PRESET 0 RESET	-9 -11	(2) Remote Control LED	It will be on when pressing other buttons.		
		(3) Menu	Open and exit the OSD menu. [Note] DL30 does not support OSD menu.		
	- 13	(4) Switch	Switch from presenter to another presenter.		
	- 16	(5) Auto Tracking On	Turn on auto tracking.		
		(6) Auto Tracking Off	Turn off auto tracking.		
AVer		(7) Number buttons	Use for setting the preset position 0~9.		
(0)	a) b) Ren Pres	press " Preset " + " Number hold " Preset " then press " N note control LED and camer set button alone.	button (0~9) " simultaneously, or Number button (0~9) ". a button LED will not light when pressing		
 (9) Reset User can use below two ways to cancel pre-configured preset pos a) press "Reset" + "Number button (0~9)" simultaneously, or b) hold "Reset" then press "Number button (0~9)". Remote control LED and camera button LED will not light when pr Paset button close 					
(10) ▲,▼,◀, & ►	Pan may web	Pan and tilt the camera. Pan/Tilt speed by remote control is fixed. You may change pan/tilt speed by using web browser. For setting details of web browser, please refer to Set Up the Camera section.			
(11) Enter	Afte in C	After opening the OSD menu, confirm the selection or make a selection in OSD menu.			
(12) Zoom In/Out Zoo cha web		Zoom in/out. Zoom in/out speed by remote control is fixed. You may change zoom in/out speed by using web browser. For setting details of web browser, please refer to Set Up the Camera section.			
(13) EV +/-	EV	level adjustment.			
(14) Upper Body	Trac butt	cking mode switches to Pres on, and presenter's size on	enter Mode when pressing Upper Body screen is upper body.		
(15) Full Body	Trac Bod	cking mode switches to Pres y button, and presenter's siz	enter Mode when also pressing Full ze on screen is full body.		
(16) Zone	Trac	acking mode switches to Zone Mode when pressing Zone button.			

(17)	Camera	Select
------	--------	--------

CAM1 to CAM4 buttons. Select a camera to operate. Once a camera is selected, the CAM button LED will be on when pressing other buttons.

Hot Key

Press certain button on remote controller to perform hot key function.

Button	Action	Function
5	Press five times (55555)	Turn on DHCP.
7	Press seven times (7777777)	Show the tracking indicator. When the hot key takes effect, you will see the tracking indicator on the target outline.
8	Press eight times (88888888)	Set DL camera's IP address as default IP (192.168.1.168).
9	Press nine times (999999999)	Password reset mechanism: When the hot key takes effect, the password of entering Web UI will go back to the default "admin".

Set Up the Camera

Set Up IP Address of the Camera

DL camera's default setting is DHCP on.

If there is DHCP environment

- 1. Connect your camera to the internet and wait for your camera to get IP address.
- 2. From your server, you can find your new camera IP address.
- 3. If necessary, modify the IP address.

Or if you want to configure by yourself

- 1. Use the remote control and press the button "8" eight times to switch to Static IP mode.
- 2. The default IP for the camera would be set to 192.168.1.168.
- 3. Set up your computer with static IP 192.168.1.x and then type in 192.168.1.168 in your web browser to access the camera.

Web Setup

Connect the camera from a remote site through the Internet.

Use the AVer IPCam Utility to Find the Camera

To find the IP address of your cameras, you can execute the IPCam Utility installer. Follow the below steps to find the IP address of the camera.

- Download the IPCam Utility from Global: <u>https://www.aver.com/download-center</u> USA: <u>https://www.averusa.com/education/support</u> Europe: https://www.avereurope.com/download-center
- 2. Run the IPCam Utility.
- 3. Click Search, and all available devices will be listed on the screen.
- 4. Select a camera from the list.
- 5. The corresponding fields of IP address will display.
- 6. Double-click on the IP address of the camera from the list to connect to the camera through the browser.

[Note] If IPCam utility cannot find the camera, please check following:

- 1. Please make sure the Ethernet connection of camera is well connected.
- 2. The camera and PC (IPCam utility) are in the same LAN segment.

tel(R) Ethe	rnet Connection (12) I219-V 🔻	Search	liser	ID	D		
					10	Passw	ord	
	,							
work Setti	ing Date/Time Se	etting Maintena	ince Import/Expor	t Config				
Coloct								
Selecci	<u></u>	1-		1	1	1		
No.	Status	Progress	Model Name	Device Name	FW version	IPv4 Address	MAC Address	IPv6
	Working		VC520 Pro2	VC520 Pro2	0.0.7200.36	10.100.93.19:80	00:18:1a:84:62:55	[]:80
	Working		VB130	VB130	0.0.7300.10	10.100.93.14:80	36:69:88:00:00:99	[]:80
	Working		DL30	DL30	7.0.0000.08	10.100.93.18:80	00:18:1a:06:e4:be	[fe80
	Working		VB130	VB130	0.0.7300.13	10.100.93.32:80	36:69:88:33:34:43	[]:80
	Working		CAM520 Pro2	CAM520 Pro2	0.0./200.36	192.168.1.33:80	00:18:1a:ba:02:db	[]:80
<								1
ettings — Device Nar	me:							
				Start IP Address:	· ·			
I				End IP Address:				
C DHCP								
O Static I	P			Subnet Mask:	· ·	· · · ·		
				Gateway:	•			
*Auto cor	urch will start after	sottings change	di	Primary DNS:		A		

Make a Connection to the Camera via Browser

Open the browser and enter the IP address of the camera. The PC/laptop requires an internet access. After connecting to the camera, enter the user account and password (default is **admin/admin**) to log in Web.



[Note] User will be asked to set a new account and password after first login. Please use the new account and password to log in later.

Login	
Please change new Name & Passw	ord for login
Login Name	
4	
Login Password	
A	
Cancel Cha	hge

Live View

In live view, the user can make a snapshot, set up camera control (zoom in/out, camera direction control, pan/tilt speed, focus), view preset, and tracking control (on, off, tracking mode).



Snapshot



Select the camera button to make a snapshot and download the file to local storage.

Pan-Tilt-Zoom Control



To operate the PTZ Camera motion, use \bigcirc , \bigcirc , \bigcirc , \bigcirc , \bigcirc , \bigcirc , \bigcirc , and \bigcirc to adjust the camera view position and use \bigcirc and \bigcirc to zoom. Select \bigcirc to go back to default

position.

Manual Pan-Tilt Speed Adjustment



Adjust the speed of manual Pan-Tilt.

 $\left[\text{Note} \right]$ The max manual pan speed is 90°/sec. The max

manual tilt speed is 45°/sec.

Focus



Switch to auto (AF) or manual (MF) focus. The manual focus use "+" and "-" to adjust focus. Select "+" to adjust focus to the far end and focusing on a far subject; select "-" to adjust focus to near end and focusing on a near subject.

One push focus: By clicking the button to adjust Lens focus automatically once.

Preset Position



Select the number to view preset positions. User can also enter preset position number (0~255) in "Go to" column directly for a quickly calling section.

Tracking Control



Enable/disable tracking function, select tracking mode, and operate one-click tracking function.

- Tracking mode (refer to <u>Tracking Settings</u> section for setup)
 - Presenter: Camera will start tracking when object enters the tracking point.

[Note] Tracking point under presenter mode: default set is preset 1. When preset 1 is not set, tracking point is home position.

- Zone: Camera will start tracking when object is moving between the preset tracking block area.
- Click Track: This function allows user to change tracking object while auto tracking.
 - Select Click Track button. A red frame is targeted on the tracking object and blue frames are targeted on other objects on the live screen.



2. To select a new target, just simply click the object on the live screen.



Settings

Tracking Settings

Enable/disable tracking function, set up tracking mode, operate one-click tracking function and pan/tilt/zoom the camera.

[Note] Tracking will be off when activating pan/tilt/zoom or go to preset point.



Tracking Control

Enable/disable tracking function, select tracking mode, operate one-click tracking function (refer to <u>Tracking Control</u> section), and pan/tilt/zoom the camera.



Presenter

Select the "Presenter" tab in Tracking Settings interface.



Camera will start tracking when object enters the tracking point.

- 1. Use \bigcirc , \bigcirc and \bigcirc to adjust the camera to tracking point.
- 2. Then, select **Save to Preset 1** to save the tracking point.
- 3. **Tracking Sensitivity:** sets the sensitive level of tracking. Move bar to set the value. The current value is displayed at upper right corner.
- 4. **Time of Return to Tracking Point:** sets the idle time for camera return to tracking point. Move bar to set the value. The current value is displayed at upper right corner.
- 5. People Size: selects the people in full or upper body while tracking.

[Note] Tracking point under presenter mode: default set is preset 1. When preset 1 is not set, tracking point is home position.

Zone

Select the "Zone" tab in Tracking Settings interface.



Set up 2 to 4 block areas for the camera. Each block is corresponding to one preset position. Camera will switch between preset positions when the presenter enters different blocks.

1. Select the "Number of block" (2, 3, or 4).



2. Select the block and set the preset positions in order (preset 6 to preset 9). Use



, , , , and , to move the camera to wanted position and select "Save" to save

the preset position. And, a snapshot of the preset image will show at corresponding image display

box. Repeat the steps to set another preset position.



[Notes]

- Set each preset overlapping with the next one (one man width).
- Set the preset view to clearly see at least 60% upper body of the presenter to ensure tracking accuracy. Make sure no other human-outline poster/TV/monitor in the background.
- 3. **Tracking Sensitivity:** sets the sensitive level of tracking. Move bar to set the value. The current value is displayed at upper right corner.
- 4. **Time of Return to Tracking Point:** sets the idle time for camera return to tracking point. Move bar to set the value. The current value is displayed at upper right corner.

Camera Settings

Camera Control

The user can set up camera control (zoom in/out, camera direction control, focus, pan/tilt/zoom speed), and enable/disable digital zoom function.



Preset

Set up preset position and view preset position.

Camera Control		Preset Exposure		Image Process				
		Save Preset		Load Pres	set			
^	Ð,	0	Save	0		Load		
		Video Freeze while Pr	eset	Quick Ca	all			
▲ ♠ ▶ =	Zoom	•	•	0	1	2	3	4
		On	Off	5	6	7	8	9
-	Q	Preset Speed		10	11	12	13	14
		O High	Low	15	16	17	18	19

- 1. Select the "Preset" tab in Camera Settings interface.
- 2. Use , , , and to adjust camera view position.
- Enter preset position number (0~255) in Save Preset column and select "Save" to save the position.
- To call the preset position, enter a preset number (0~255) in Load Preset column or select the preset number (0~19) from Quick Call section.
- 5. Video Freeze while Preset: turns on/off the screen view freeze function. When "Video Freeze while Preset" is on, during the preset operation, the screen will freeze until the operation is done.
- 6. **Preset Speed:** selects the preset speed.

[Note] Preset point value includes: pan/tilt/zoom, exposure, shutter, iris, ev, brightness, gain, slow shutter, white balance, focus, focus position, digital zoom, and R&B gain.

Exposure

Select the "Exposure" tab in camera settings interface.

Set up the exposure type - Full Auto or Manual and relevant settings.



Image Process

Select the "Image Process" tab in camera settings interface.

Set up the white balance, saturation, contrast, sharpness, noise filter, mirror, and flip.

Camera Control	Camera Control Preset E		Exposure Image		age Process			
White Balance			Saturation		Noise Filter			
AWB	~		•	10	Off	O Low	Medium	High
R Gain	128 B Gain	128	Contrast		Mirror		Flip	
•	255 0	255	•	4				
One Push			Sharpness					
Set If you select " sheet of white	One push", please press SET when pl paper to the camera.	acing a		- O - 3			D)efault

Video & Audio

The user can set up Power Frequency, Video Mode, Stream Video Output, Bitrate, Encoding Type, Framerate, I-VOP Interval (S), Rate Control, Audio Input Type, Audio Volume, and Sampling Rate.

AV er		Power Frequency	0				
O	Ö	50Hz	60Hz				
• Tracking S	Settings	Video Mode Stream Only	~				
Camera Settings							
Video & Audio		Stream Video Output		Bitrate	_	Encoding Type	•
몲 Network		1920x1080	~	4Mbps	~	H.264	H.265
System		Framerate 30	~	1	1s 10	Rate Control	O CBR
		Audio Input Type		Audio Volume	10	Sampling Rate	
		Line In	O MIC In		O 10	48KHz	~

3 types of video modes can be selected and each one only supports single function,

- Stream Only: supports RTSP/RTMP only.
- USB Only (factory default): supports USB port output only; not compatible with AVer PTZ Management and PTZ Control Panel. Please switch to other two modes if necessary.
- USB + Streaming: supports both RTSP/RTMP and USB output at the same time.

[Note] If Video mode is in "Stream Only", the frame rate is up to 60fps; in "USB + Streaming" mode, the frame rate is up to 30fps.

Network

Set up IP address of camera – DHCP or static IP, Netmask, Gateway, and DNS. After setting, select "Confirm" to apply settings.

AVer		DHCP	•			
O	ġ	On IP Address	Off			
Tracking Settings		10.100.105.129		255.255.255.0		
Camera Settings		Gateway		DNS		
📲 🛛 Video & Audio		10.100.105.254		10.100.1.5		Confirm
몲 Network		RTMP Settings		RTSP Security	•	
-√- System		Server URL		On	Off	
		Stream Key				
		Start Stream				

RTMP Setting

Follow below steps to set up RTMP:

- 1. Get the RTMP server URL and stream key from the broadcasting platform and enter in "Server URL" and "Stream Key" column.
- 2. Select "**Start Stream**" to begin uploading the live video of the camera to the broadcasting platform.
- 3. Select "STOP" to stop uploading the video.

[Note] To get the RTMP server URL and stream key, please refer to the instruction of broadcasting. RTSP Security for user to set a security key number for streaming.

Connecting to DL30 via RTSP

On your media applications such as VLC, PotPlayer, or QuickTime, you can connect to DL30 by entering the following RTSP URL:

"rtsp://IP address of DL30/live_st1".

For Example: rtsp://192.168.1.168/live_st1

You can enable/disable RTSP Security function.

(When RTSP Security is **On**, the RTSP stream ID and Password will be synchronized with those of DL30 Web user interface.)

System

The system information of camera is displayed in this page, including Model Name, IP Address, Serial Number, MAC Address, and Firmware Version.

AVer		Upgrade firmware		Mo	odel Name	DL3	30
• Tracking S	ö t Settings	Choose File No Factory Default Reset To	filosen U Factory Defaul	pgrade IP Se M/ t Fir	Address erial Number AC Address rmware Version	10. 510 00: 7.0.	100.105.129 0337300034 18:1a:06:e4:df 0000.10
Camera S Video & A R Network	udio	Login Login Name Chief Login Password		Lan	guage Iglish		×
System		Change	Car	icel			
		Save to Profile	2	Loa 3	d Profile 1	2	3
		Sleep Timer	0 10sec	c 5min	O 10min	 20min	
		Camera Selector	3	4			

- Upgrade firmware: follows below steps to upgrade the firmware.
 - 1. Download the newest firmware from: Global: <u>https://www.aver.com/download-center</u> USA: <u>https://www.averusa.com/education/support</u> Europe: <u>https://www.avereurope.com/download-center</u>
 - 2. Connect to the camera through the browser.
 - 3. Select System > Upgrade firmware > Choose File.
 - 4. Select the firmware and select the "Upgrade" button.
 - 5. It takes about 5 minutes to finish update. After update, log in the web page again.
- Factory Default: clears all values and resets the camera back to factory default values.
- Login: the default login name and password are admin/admin. To change the login name and password, enter the new login name and password and select the "Change" button.
- Language: changes the Web UI language.
- Save to Profile: saves up to 3 different settings including preset settings values, tracking mode, and tracking setting values of camera.
 [Note] The settings of profiles will be cleared after factory reset.
- Load Profile: loads up to 3 different settings of camera. After selecting Load Profile, camera will go back to Home position.
- Sleep Timer: sets the duration of sleep timer. When there is no UVC and RTSP connection and timer is up, camera will enter sleep mode.
- Camera Selector: selects a camera to operate.

FAQ

- Can I pan, tilt, zoom, and set preset point when tracking is on?
 Yes, but tracking will be off when activating pan/tilt/zoom or go to preset point.
- Any value will be auto saved and shifted when going to the preset point?
 Yes, preset point value: PTZ, exposure, shutter, iris, ev, brightness, gain, slow shutter, white balance, focus, focus position, digital zoom, R&B gain.
- What value will be saved in profile?
 Profile saving value: 1) preset setting values, 2) tracking mode, and 3) tracking setting values.
- 4. How to switch from Zone mode to Presenter mode?
 You may switch to Presenter mode by simply pressing Upper or Full button on your remote control.

Specification*

DL30

Camera			
Image Sensor	1/2.8" CMOS		
Effective Picture Elements	2 Megapixels		
Output Resolutions	USB: 1080P60 (max) RTSP: 1080P60 (max)		
Minimum Illumination	0.5 Lux (IRE50, F1.6, 30FPS)		
S/N Ratio	≥ 50dB		
Gain	Auto, Manual		
TV Line	800 (Center/Wide)		
Shutter Speed	1/4 s to 1/10,000 s (60Hz) 1/3 s to 1/10,000 s (50Hz)		
Exposure Control	Full Auto, Manual, WDR		
White Balance	Auto, Manual		
Optical Zoom	12X		
Digital Zoom	2X		
	DFOV: 84.1° (Wide) to 7.8° (Tele)		
Viewing Angles	HFOV: 76.5° (Wide) to 6.8° (Tele)		
	VFOV: 47.3° (Wide) to 3.8° (Tele)		
Focal Length	f = 3.9 mm (Wide) to 46.8 mm (Tele)		
Aperture (Iris)	F = 1.6 (Wide) to 2.8 (Tele)		
Minimum Working Distance	0.3 m (Wide), 1.5m (Tele)		
Pan/Tilt Angles	Pan: ±170°, Tilt: ±90°		
Pan/Tilt Speed (Manual)	Pan: 1° to 90°/sec, Tilt: 7.85° to 45°/sec		
Preset Speed	Pan: 120°/sec, Tilt: 110.84°/sec		
Preset Positions	10 (IR), 256 (IP)		
Camera Control - Interface	IP, USB		

Camera Control - Protocol	VISCA (IP), CGI (IP), USB		
Noise Reduction	2D/3D NR		
Image Effect	Flip, Mirror		
WDR	Yes		
Power Frequency	50 Hz, 60 Hz		
AI Auto Tracking Functions			
Tracking Mode	Presenter Mode, Zone Mode		
Sleep Mode			
Sleep Mode	Yes (Control by Web Page and CaptureShare)		
Audio			
Channel	2ch Stereo		
Codec	AAC, PCM		
Sample Rate	AAC (48/32/16/8Khz), PCM (48Khz)		
Interface			
Video Outputs	IP, USB		
Audio Outputs	IP, USB		
Audio Inputs	MIC in, Line in		
General			
Power Requirement	AC100 - 240V to DC12V 2A or above		
Power Consumption	12W		
PoE+	Yes		
Dimensions (W x D x H)	158.8mm x 162.2mm x 200mm		
Net Weight	1.617±0.1KG		
Application	Indoor		
Tally	NA		
Security	Kensington slot		
Operating Conditions	Temperature: 0°C to +40°C Humidity: 20% to 80%		

Storage Conditions	Temperature: -20°C to +60°C Humidity: 20% to 95%				
IP Streaming					
Resolution	1080P (60FPS)				
Network Video Compress Formats	H.264, MJPEG (Web Page)				
Maximum Frame Rate	60FPS				
Bit-rate Control Modes	VBR/CBR				
Range of Bit-rate Setting	512 Kbps to 32 Mbps				
Network Interface	10/100 Base-T				
	2				
	(RTSP/Web Page), 1080P60FPS (max)				
Multi-stream Capability	(Web Page/USB), 1080P60FPS (max)				
	3				
	(RTSP/Web Page/USB), 1080P30FPS (max)				
Notwork Protocolo	IPv6, IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP,				
Network Frotocols	RTP/RTCP, RTSP, RTMP, VISCA over IP				
NDI [®] HX Capability	NA				
USB					
Connector	USB 3.1 Gen1 Type B, backward compatible with USB 2.0				
Video Format	MJPG/YUY2				
Maximum Video Resolution	1080P60				
USB Video Class (UVC)	UVC 1.1				
USB Audio Class (UAC)	UAC 1.0				
Web UI					
Live Video Preview	Yes				
Camera PTZ Control	Pan, Tilt, Zoom, Focus, Preset Control				
Camera/Image Adjustment	Exposure/White Balance/Picture				
Network Configuration	DHCP, IP Address, Gateway, Subnet mask, DNS				

Software Tools	
Single Camera Control	AVer CaptureShare (via USB), AVer PTZ Control Panel (via IP)
Multi-Camera Control and Configuration	AVer PTZ Management (via IP)
Device IP Searching	AVer CaptureShare/Information AVer PTZ Control Panel/Auto Search AVer PTZ Management/Setup/Device/Add/Auto Search
Warranty	
Camera	3 Years
Accessories	1 Year

*Specifications are subject to change without prior notice.