



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.

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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.

OK





More Help

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

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

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Contact Information

Global AVer Information Inc. https://www.aver.com 8F, No.157, Da-An Rd., Tucheng Dist., New Taipei City 23673, Taiwan Tel: +886 (2) 2269 8535

European Headquarters

AVer Information Europe B.V. <u>https://www.avereurope.com</u> Westblaak 134, 3012KM, Rotterdam, The Netherlands Tel: +31 (0) 10 7600 550 Technical support: <u>eu.rma@aver.com</u>

<u>USA</u>

AVer Information Inc. https://www.averusa.com 668 Mission Ct., Fremont, CA 94539, USA Tel: +1 (408) 263 3828 Toll-free: +1 (877) 528 7824 Technical support: support.usa@aver.com

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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 two seconds) | Tracking On |
| Blue (Solid) | Normal Operation and Tracking Off |
| Orange (Blinking) | Camera Initialization |
| Orange (Solid) | Standby Mode |
| Red (Blinking) | Firmware Update |
| Purple (Blinking for three times)**** | RTMP being switched on or off |

****Supported since V7.0.0016.22

Pan and Tilt Angle





Dimension



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 | | |
|---|--------------------------------|---|---|--|--|
| 1 0 b b 4 34 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | - 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. | | |
| | -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. | | |
| (8) Preset | use a) b) Ren Pre: | press " Preset " + " Number button (0~9)" simultaneously, or hold " Preset " then press " Number button (0~9)". mote control LED and camera button LED will not light when pressing eset button alone. | | | |
| (9) Reset | Use a) b) Ren Res | er can use below two ways to press " Reset " + " Number I hold " Reset " then press " N note control LED and camer set button alone. | cancel pre-configured preset position: button (0~9)" simultaneously, or umber button (0~9)". a button LED will not light when pressing | | |
| (10) ▲,▼,◀, & ► | Pan may web | and tilt the camera. Pan/Til / change pan/tilt speed by us p browser, please refer to Se | t speed by remote control is fixed. You sing web browser. For setting details of t Up the Camera section. | | |
| (11) Enter | Afte in C | opening the OSD menu, confirm the selection or make a selection SD menu. | | | |
| (12) Zoom In/Out | Zoo cha web | com in/out. Zoom in/out speed by remote control is fixed. You may nange zoom in/out speed by using web browser. For setting details of eb browser, please refer to Set Up the Camera section. | | | |
| (13) EV +/- | EV *Pre *Pre | level adjustment. ess EV+ for three seconds to ess EV- for three seconds to is function is supported since | e switch on RTMP. switch off RTMP. e V7.0.0016.22. | | |

| (14) Upper Body | Tracking mode switches to Presenter Mode when pressing Upper Body button, and presenter's size on screen is upper body. |
|--------------------|---|
| (15) Full Body | Tracking mode switches to Presenter Mode when also pressing Full Body button, and presenter's size on screen is full body. |
| (16) Zone | Tracking 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. |
| 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: <u>https://www.avereurope.com/download-center</u>
- 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 | User | ID | Passw | ord | |
|--------------------------|-----------------------|-------------------|---------------------|-------------------|-------------|-----------------|-------------------|-------|
| work Setti earch Resu | ng Date/Time Se lt | etting Maintena | ince Import/Expor | t Config | | | | |
| 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 |
| □3 | Working | | DL30 | DL30 | 7.0.0000.08 | 10.100.93.18:80 | 00:18:1a:06:e4:be | [fe8 |
| 4 | Working | | VB130 | VB130 | 0.0.7300.13 | 10.100.93.32:80 | 36:69:88:33:34:43 | []:80 |
| 5 | Working | | CAM520 Pro2 | CAM520 Pro2 | 0.0.7200.36 | 192.168.1.33:80 | 00:18:1a:ba:02:db | []:80 |
| < | | | | | | | | 3 |
| attings Device Nar | ne: | | | Start IP Address: | | | | |
| | | | | End IP Address: | | | | |
| C DHCP | p | | | Subnet Mask: | | | | |
| Static 1 | , | | | Gateway: | | | | |
| | | | | | | | | |
| | | | | | | | | |

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 & Password for login | |
| Login Name | |
| | |
| Login Password | |
| | |
| | |
| Cancel Change | |
| | |

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

to zoom. Select



to adjust the camera view position and use

to go back to default position.

and

Manual Pan-Tilt Speed Adjustment



Adjust the speed of manual Pan-Tilt.

[Note] The max manual pan speed is 90°/sec. The max manual tilt speed is 45°/sec.

17

Focus



Preset Position



Switch to auto (AF) or manual (MF) focus.

- You can <u>configure AF Mode</u> under Settings (²⁰) > Camera Settings > Camera Control.
- Manual focus: Click the minus sign to focus near and plus sign to focus far.
 - One push focus: Click to adjust lens focus automatically once.

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.
- Hybrid: With the advantages of both the Presenter Mode and Zone Mode, the camera tracks and captures the presenter's movement. As the presenter enters the previously configured preset point zone, the camera steers to focus on the content of the zone, such as the whiteboard and the projector screen.
- 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 (,),
- 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.
- 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.
- 6. Effect Tracking Area: When Effective Tracking Area function is on, camera only tracks around the selected area. Check the box to turn on the Effective Tracking Area function then click Set to configure the targeted area in the live view. Move the upper left corner and the lower right corner of the red solid frame to define the targeted area.





[Note] The position of the red solid frame corresponds to the central position of the presenter. The black dotted frames represent the tracking areas for different positions of the presenter. Therefore, the red dotted frame is the actual effective tracking area of the red solid frame.

7. **Auto Zoom**: When Auto Zoom is off, camera stops zooming in/out automatically and shoots the presenter according to the shot size of Preset 1.

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



(**O**, **O**, **O**, **O**, **O** and **O** to move the camera to desired 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.

Hybrid

Under Tracking Settings, select Hybrid.



Hybrid benefits you with the advantages of both the **Presenter Mode** and **Zone Mode**. Under **Hybrid Mode**, the camera tracks and captures the presenter's movement. As the presenter enters the previously configured preset point zone, the camera steers to focus on the content shown on the teaching gadget in the zone, such as the whiteboard and the projector screen.

Firstly, configure Preset 10-13 to define the preset point zone.

- 1. Select **Preset 10** from the drop-down menu.
- 2. Use (,),
- 3. Select Save to save Preset 10.
- 4. Select Delete to remove Preset 10. You can proceed to reconfigure Preset 10.
- 5. Repeat the steps above to configure **Preset 11-13**. Leave some space between **Preset 10** to **13**, as each preset point zone is meant to center on the content of the teaching gadget, such as the whiteboard and the projector screen.



Secondly, determine how the camera tracks the presenter.

- Use Tracking Sensitivity slider to adjust the sensitivity level of tracking. The current value is displayed at the upper right corner.
- Use Time of Return to Tracking Point slider to define the idle time before the camera returns to the tracking point. The current value is displayed at the upper right corner.
 [Note] The default value of the Tracking Point is preset 1. If preset 1 is not set, the Tracking Point will be home position.
- People Size: Choose to cover the presenter's Full Body or Upper Body while tracking him/her.
 Once the Effective Tracking Area is enabled, the camera tracks the presenter only when he/she is within the specified Effective Tracking Area. When configuring the Effective Tracking Area, include Preset 10-13 in the Effective Tracking Area so that the camera tracks to focus on the content of the preset point zone. For instance, in the case where Preset 10 is excluded from the Effective Tracking Area, even if the presenter walks to the flat TV in Preset 10, the camera will not go to Preset 10 and will not show the content of the flat TV.

Camera Settings

Camera Control



Select Settings () > Camera Settings > Camera Control.

You can navigate the camera to the desired angle with its PTZ function.

Auto Focus Modes:

Select Find the two modes below in the **AF Mode** drop-down list.

- AF Trigger after PTZ (Default): After the camera pans, tilts, or zooms in/out, the auto focus will be triggered once. This mode is suitable for scenarios where the presenter uses gestures and body language but walks around only occasionally. The camera will auto focus on the presenter only once after he/she stops walking, thus stabilizing the footage.
- Continuous AF: The camera automatically maintains its focus on the presenter whenever it detects any movement. This mode is widely used in cases where the presenter strolls around the room, for it can firmly keep focus on the presenter optimally.
- Select Select to switch to the manual focus. Click the minus sign to focus near and plus sign to focus far.
 - > One push focus: Click 💽 to adjust lens focus automatically once.
- You can adjust the **Pan Speed** of the camera with the slider.
- You can adjust the **Tilt Speed** of the camera with the slider.
- You can select **High** or **Low** for **Zoom Speed**.
- You can select **On** or **Off** for Digital Zoom.

Preset

Set up preset position and view preset position.

| С | Camera Control | | Preset | Exposure | | Image Proc | cess | | | |
|---|----------------|------|---------------------------|--------------|-------------|------------|------|----|----|----|
| | | | Save Preset | | Load Preset | | | | | |
| | | Ð | 0 | Save | 0 | | Load | | | |
| | | | Video Freeze while Presel | | Quick Call | | | | | |
| | ♠ ▶ | 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.



- 3. 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.



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 | ŵ | 50Hz | 60Hz | | | |
| • Tracking S | Settings | Video Mode | ~ | | | |
| Camera S | ettings | Stream Only | | | | |
| Video & Ai | udio | Stream Video Output | | Bitrate | | Encoding Type |
| 昦 Network | | 1920x1080 | ¥ | 4Mbps | ~ | H.264 H.265 |
| | | Framerate | | I-VOP Interval (S) | | Rate Control |
| System | | 30 | Ý | 1 💁 🔤 | 10 | VBR CBR |
| | | | | | | |
| | | Audio Input Type | | Audio Volume | | Sampling Rate |
| | | Line In | O MIC In | 0 |) 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 | Ö | 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 |
| Handreich Network | | RTMP Settings | | RTSP Security | • | |
| -v∕- System | | Server URL | | On | Off | |
| | | Stream Key | | | | |
| | | Start Stream | | | | |

RTMP Settings

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 | | Model Name | DL30 |
|--|---------------------|---|------------------------|--|---|
| • Tracking S | ö ettings | Choose File No filoser Factory Default Reset To Factory | n Upgrade y Default | IP Address Serial Number MAC Address Firmware Version | 10.100.105.129 5100337300034 00:18:1a:06:e4:df 7.0.0000.10 |
| Camera Settings Camera Settings Video & Audio R Network System | | Login Login Name Chief Login Password Change | Cancel | Language English | v |
| | | Save to Profile | 3 | Load Profile | 2 3 |
| | | Sleep limer Off | 0 10sec 5 | min 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.
- 5. Where can I configure the Hybrid Mode?
 - •You can access the camera Web user interface to configure the Hybrid Mode. The Hybrid Mode is not supported by the remote control.
- 6. What should I pay attention to when configuring the Effective Tracking Area under the Hybrid Mode?
 - •Effective Tracking Area defines where the presenter is tracked. When configuring the Effective Tracking Area, include the preset point zone (Preset 10-13) as well.

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, Hybrid 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 Flotocols | 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 | | |
|--------------------------|---|--|
| | AVer CaptureShare (via USB, via IP with virtual camera) | |
| Single Camera Control | AVer PTZ Control Panel (via IP) | |
| | AVer OBS Plugin for PTZ Cameras (via IP) | |
| Multi-Camera Control and | AVer PTZ Management (via IP) | |
| Configuration | | |
| | AVer CaptureShare/Information | |
| Device IP Searching | 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.