



IP camera

SV-BA301-E

User manual

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1 Notes and warnings

- ▲ Notes contain additional information on using and configuring the device.
- ☑ Tips contain important information, tips or recommendations on device operation and setup.

2 Product description

SV-BA301-E is a camera designed for real-time video surveillance. Due to the QuadHD resolution, the transmitted image is clear and detailed. PoE technology allows installing the camera everywhere, regardless of the location of the power supply. It also saves on the cost of power cables and makes the installation simple and not time-consuming.

Features and capabilities:

- Night vision provides clear images even in low-light conditions.
- Motion detection notifies you of events as they occur.
- Video archive provides options for saving recordings: to a memory card for local storage or to network storage¹. If the local storage fails, all recordings will remain available on the network storage.
- PoE power supply.



¹ Support for the function of saving records to network storage is under development.

2.1 Technical specifications

Interfaces		
Memory card	1 × MicroSD/SDHC/SDXC up to 256 GB	
Ethernet	1 × 10/100BASE-T (RJ-45), support for PoE	
Sensor		
Туре	1/3" progressive scan CMOS	
Effective pixels	4 M	
Lens and illumination		
Focal distance	2.8 mm	
Aperture	F/2.0	
Field of view (horizontal)	100°	
Field of view (diagonal)	116°	
Angle adjustment (tilt)	from 0° to 90°	
Angle adjustment (rotate)	from 0° to 360°	
IR illumination	yes	
IR range	up to 40 m	

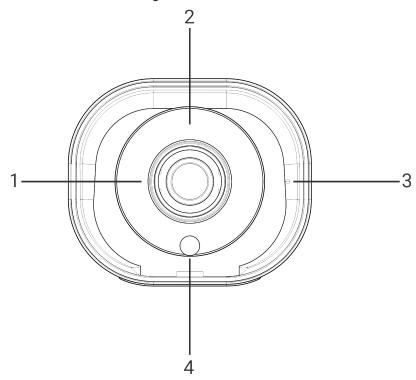
Image		
Image	color	
Maximum resolution	2560 × 1440	
Maximum frame rate	25 fps	
Bit rate	up to 10 Mbps	
Video compression	H.264, H.265	
Image quality improvement	BLC, HLC, DWDR, ANTI-FLICKER, DEFOG	
Signal-to-noise ratio	no less than 50 dB	
Minimum illumination	color: 0,02 lx, bw: 0 lx with IR	
Audio		
Built-in microphone	yes	
Built-in speaker	yes	
Audio compression	PCM, AAC, MP2, ADPCM1, G.711U (PCMU)1, G.711A (PCMA)1, G.726 ¹ , ROI ¹	
Voice pickup distance	up to 5 m	
Physical specifications		
Power supply	12 V DC, PoE 802.3af	
Housing	metal	
Form factor	cylindrical camera	
Mount options	indoor and outdoor	
Dimensions (W × H × D)	70 × 67 × 186 mm	
Weight	0.38 kg	
Operating temperature	from -40 to +60°	
Operating humidity	no more than 90 % (non-condensing)	
Ingress protection	IP66	
Lifetime	no less than 5 years	

¹ Under development.

2.2 Design

2.2.1 Front view

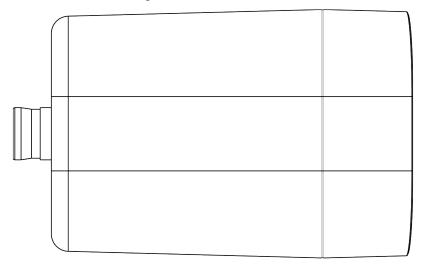
The front view of the camera is shown in the figure below.



Nº	Description
1	Lens
2	Indicator
3	Microphone
4	Light sensor

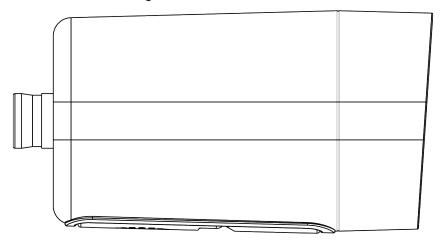
2.2.2 Top view

The top view of the camera is shown in the figure below.



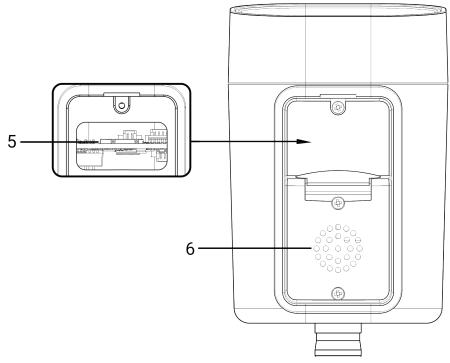
2.2.3 Side view

A side view of the camera is shown in the figure below.



2.2.4 Bottom view

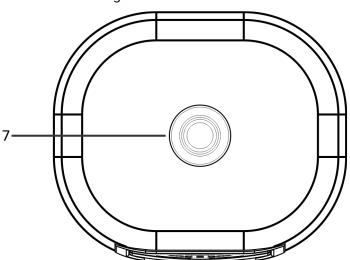
The bottom view of the camera is shown in the figure below.



Nº	Description	
5 MicroSD card slot		
6	Speaker	

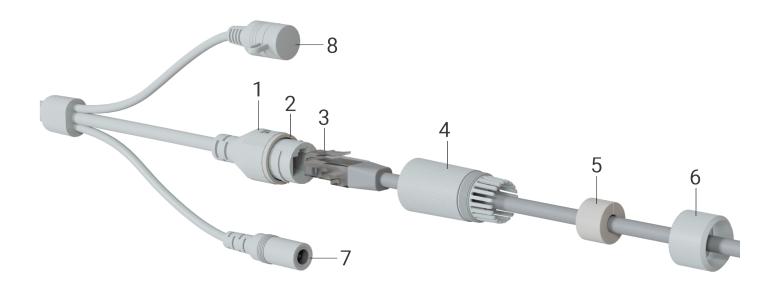
2.2.5 Base view

The base view of the camera is shown in the figure below.



Nº	Description
7	Cable hole

2.2.6 Cable design



Nº	Description
1	Network interface
2	Sealing ring
3	Ethernet cable
4	Cable gland
5	Waterproof ring
6	Locking nut
7	Power adapter connector
8	Reset button

2.3 Light indication

Indicator	Device state
Red, solid	The device is working
Off	The device is not working

2.4 Delivery package

SV-BA301-E standard delivery package includes:

- SV-BA301-E IP camera;
- Mounting kit;
- · Case mounting template;
- · Installation and initial configuration guide.

2.5 Reset to factory settings

There are two ways to perform a factory reset:

- **Software reset.** In the device web interface, enter "System settings", select "Configuration" and click "Reset to Factory Default Settings".
- **Hardware reset**. The reset button is located on the cable. Remove the protective cap, then press and hold the reset button for three seconds. The camera will then reboot.

2.6 Operating conditions

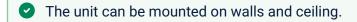
- The camera is designed for indoor and outdoor usage.
- · Do not install the device near heat sources.
- Do not expose the device to smoke, dust, water or other liquids. Do not mechanically damage the device.
- Do not open the device case. There are no user-serviceable elements inside the camera.
- At the end of its service life, do not dispose of the camera with normal household waste. Take it to an electronics recycling center.

3 Device installation

3.1 Selecting the camera location

- 1. Determine the areas that need to be monitored. Consider that entrance doors, windows, and various objects may obstruct the camera's field of view and reduce it.
- 2. Pay attention to the lighting where the camera is installed to ensure a clear image. Avoid direct sunlight and other bright light sources directed at the camera lens. Also consider light sources that may create shadows or glare in the image.
- 3. Consider the location of the power supply. The use of extension cords or additional cables is not recommended, as this may impair the quality of the power supply.

3.2 Mounting using a bracket



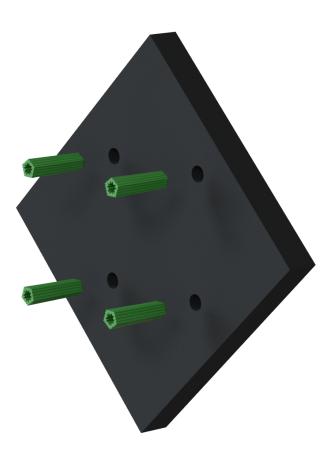
- 1. Select a location for the camera based on the recommendations in the "Selecting a camera location" section.
- 2. On the selected surface, mark where the four holes for the bracket will be drilled. Use the supplied template for this purpose.



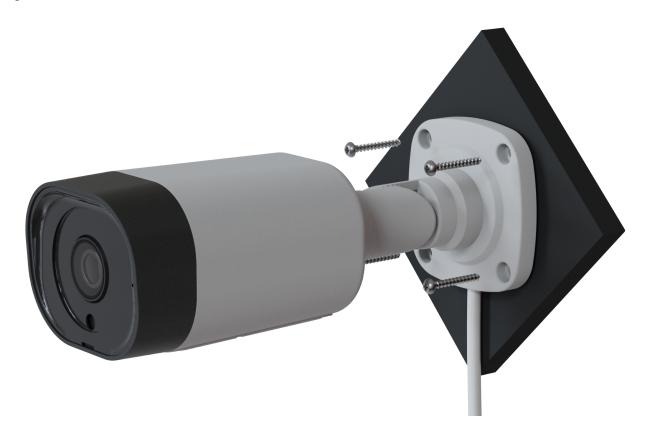
3. Separate the template from the backing and stick it to the wall.



4. Drill four holes according to the template. Use dowels if necessary.



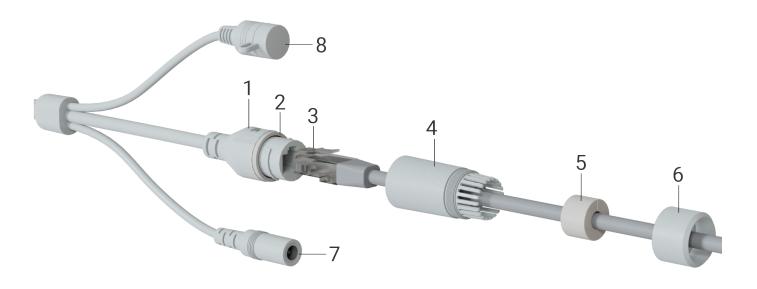
5. Align the holes on the wall with the holes on the bracket and fix the camera with screws.



A view of the camera placed on the ceiling is shown in the figure below.



6. Connect the Ethernet cable in the order shown in the image below: slide the O-ring (2) over the sealing cap of the network interface (1). Place the locking nut (6) and the cable gland (4) on the Ethernet cable (3). Insert the Ethernet cable (3) into the network interface. Tighten the cable gland (4) and fix it to the sealing cap (1). Slide the waterproof ring (5) over the sealing ring (4). Make sure that the ring fits snugly over the connector. Tighten the locking nut (6) and fix it to the cable gland(4). Once the Ethernet cable is connected and insulated, connect the power cable to the power connector (7).



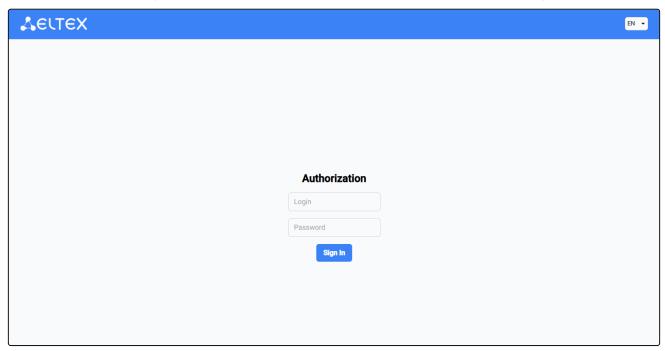
The assembled cable is shown in the figure below.



4 Managing the device via the web interface

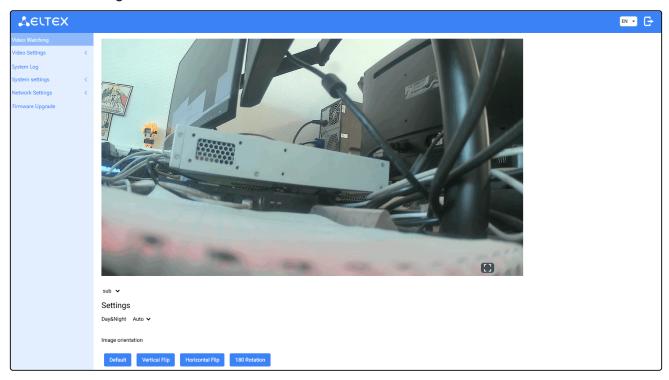
4.1 Getting started

- 1. Connect the camera to your local network.
- 2. Open a web browser and enter the IP address of the device obtained from the DHCP server in the address bar.
- 3. The authorization page will be displayed in the browser window. Enter your username and password in the appropriate fields. (The default login name is **admin** and password is **password**).



4. Click the "Sign In" button. The "Video Watching" page will open in the browser window.

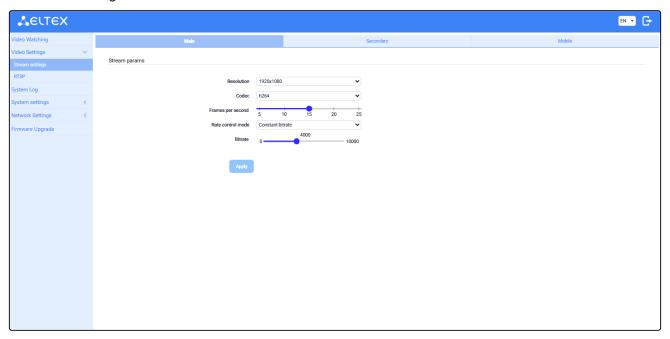
4.2 "Video Watching" menu



- Day&Night IR illumination mode selection:
 - Auto automatic switching between day and night mode based on light level;
 - Day IR illumination is always off;
 - *Night* IR illumination is always on.
- *Image orientation control* camera image control:
 - Default camera renders the image as the user sees it with their eyes;
 - Vertical Flip image is mirrored along the vertical axis;
 - Horizontal Flip image is mirrored along the horizontal axis;
 - 180 Rotation image is mirrored vertically and horizontally, thus providing an image as in the "Standard" mode for a physically inverted camera.

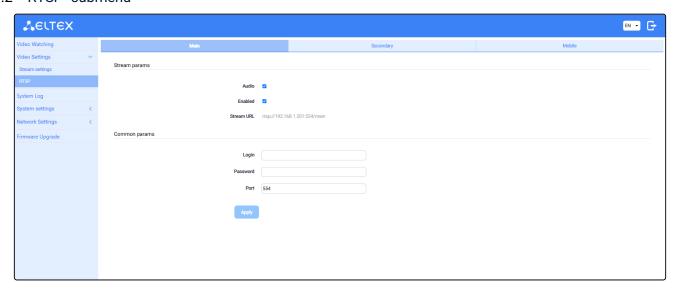
4.3 "Video settings" menu

4.3.1 "Stream settings" submenu



- · Streams:
 - Main primary stream, the best broadcast quality;
 - Secondary secondary stream, average broadcast quality;
 - Mobile mobile stream, poor broadcast quality.
- · Stream parameters:
 - Resolution selection of resolution of the image broadcast from the camera. The maximum resolution is 2560 × 1440.
 - Codec selection of video compression standard:
 - · H.264;
 - H.265.
 - Frame per second number of frames that will be transmitted in one second. Maximum frequency 25 fps;
 - Rate control mode mode of stream encoding:
 - Constant bitrate mode where the stream has a constant bitrate set in the "Bitrate" field;
 - Variable bitrate mode where the stream has a variable bitrate. Bitrate is varied by the
 complexity of the image, but does not exceed the "Maximum bitrate" value, and adheres to
 the "Bitrate" value.
 - Bitrate amount of information transmitted by the camera. Increasing this parameter proportionally increases the quality of the transmitted image.

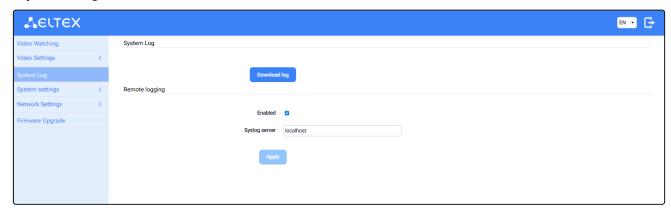
4.3.2 "RTSP" submenu



- Stream params section for configuring RTSP broadcasting:
 - · Audio enable and disable audio in the stream;
 - Enabled enable and disable the stream;
 - Stream URL link to the selected stream considering the "Login", "Password" and "Port" fields of the "General parameters" section;
- · Common params:
 - Login user name up to 63 Latin alphabet characters and digits;
 - Password user password up to 63 Latin alphabet characters and digits;
 - Port port to receive stream from RTSP server.

Click the "Apply" button to save the settings.

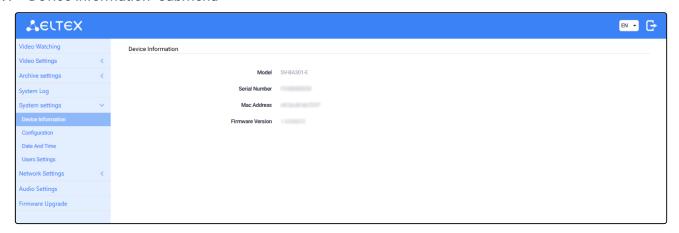
4.4 "System Log" menu



- Download log download system log;
- Remote logging section for configuring logs to a remote server:
 - Syslog server address of the remote syslog server.

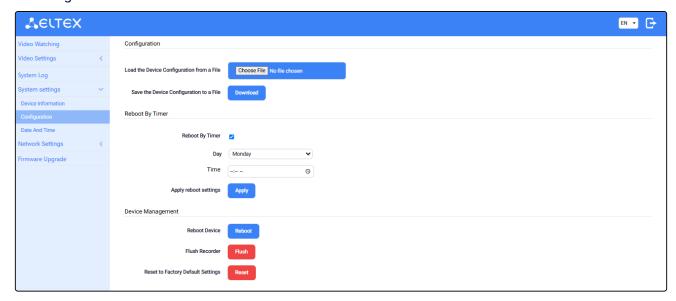
4.5 "System settings" menu

4.5.1 "Device Information" submenu



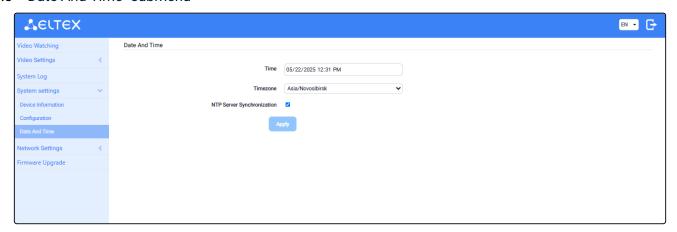
- Model name of the device model;
- Serial Number serial number of the device;
- MAC Address MAC address of the device;
- Firmware Version current firmware version of the device.

4.5.2 "Configuration" submenu



- Configuration section for working with the device configuration:
 - Load the Device Configuration from a File select a file from which the camera will load its configuration;
 - Save the Device Configuration to a File download device configuration for further use.
- Reboot By Timer section to configure an automatic weekly reboot:
 - Day day of the week when the reboot is performed;
 - Time exact time when the reboot is performed.
- Device Management:
 - · Reboot Device;
 - · Flush Recorder;
 - · Reset to Factory Default Settings.

4.5.3 "Date And Time" submenu



- Time time on the camera. It can be edited if synchronization is not enabled;
- Timezone time zone on the camera;
- NTP Server Synchronization enable synchronization by NTP.

Click the "Apply" button to save the settings.

4.6 "Network Settings" menu





- · Mode:
 - Auto receiving all settings via DHCP;
 - Manual setting all network settings manually:
 - · IP Address;
 - · Network Mask;
 - Dns List DNS servers addresses;
 - + adding a backup DNS server;
 - · Default Gateway.

4.7 "Firmware Upgrade" menu



 \cdot Firmware URI — URI link that allows the camera to download the firmware for upgrading. Click the "Start Upgrading" button to start the upgrade.

TECHNICAL SUPPORT

For technical assistance in issues related to handling Eltex Ltd. equipment, please, address to Service Center of the company: http://www.eltex-co.com/support/

You are welcome to visit Eltex official website to get the relevant technical documentation and software.

Official website: http://www.eltex-co.com/

Download center: http://www.eltex-co.com/support/downloads/