

Integrated Networking Solutions

IP camera

# SV-BA401-E

User manual

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# 1 Notes and warnings

A 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-BA401-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 storage<sup>1</sup>. If the local storage fails, all recordings will remain available on the network storage.
 PoE newer supply.

PoE power supply.

<sup>1</sup> 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 128 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 30 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			
Signal-to-noise ratio	no less than 50 dB			
Minimum illumination	color: 0,03 lx, bw: 0 lx with IR			
Audio				
Built-in microphone	yes			
Built-in speaker	no			
Audio compression	PCM, AAC, MP2			
Voice pickup distance	up to 5 m			
Physical specifications				
Power supply	12 V DC, PoE 802.3af			
RAM	128 MB			
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	IP67			
Lifetime	no less than 5 years			

# 2.2 Design

# 2.2.1 Front view

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



N⁰	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

#### 2.2.5 Base view

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



Nº	Description
6	Cable hole

# 2.2.6 Cable design



N⁰	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-BA401-E standard delivery package includes:

- SV-BA401-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

The unit can be mounted on walls and ceiling.

- 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**).

Aeltex	SV-BA401-E	EN 🔹
	Authorization	
	Login	
	Password	
	Sign In	

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

LELTEX	SV-BA401-E			
Video Watching	Main	2	econdary	Mobile
Video Settings 🔷 🗸				
Stream settings	Stream params			
RTSP	Resolution	(1920x1080 V		
System Log	Codec	h264 🗸		
System settings <	Frames per second	·		
Network Settings	Pote control mode	5 10 15 20 25		
Firmware Upgrade	Rate Control mode	4000		
	Bitrate	0 10000		
	_			
	Apply			

- 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.

Click the "Apply" button to save the settings.

#### 4.3.2 "RTSP" submenu

стех			SV-BA401	I-E	EN 💌	G
Video Watching	м	ain		Secondary	Mobile	
Video Settings						
Stream settings	Stream params					
RTSP		Audio 🔽				
System Log		Cashied .				
System settings		Enabled				
Network Settings		Stream URL rtsp://1	92.168.1.201:554/main			
Firmware Upgrade	Common params					
		Login				
		Password				
		Port 554				
		Apply				

- 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

Seltex		SV-BA401-E		
Video Watching		System Log		
Video Settings	<			
System Log			Download log	
System settings	<	Remote logging		
Network Settings	<		Fachled .	
Firmware Upgrade			Enabled	
			Syslog server localhost	
			Apply	

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

Click the "Apply" button to save the settings.

### 4.5 "System settings" menu

#### 4.5.1 "Device Information" submenu

<b>≴</b> естех		SV-BA401-E	en 🔹 🕞
Video Watching	Device Information		
Video Settings <			
Archive settings <	Model	SV-BA401-E	
System Log	Serial Number	FCDC000070	
System settings	Mac Address	and Sam (A. Sawahi and	
Device Information	Firmware Version		
Configuration			
Date And Time			
Users Settings			
Network Settings <			
Audio Settings			
Firmware Upgrade			

- 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 "Device configuration" submenu

Δειτεχ		SV-BA401-E	
Video Watching	Configuration		
Video Settings <			
System Log	Load the Device Configuration from a File	Choose File No file chosen	
System settings 🔹 🗸	Save the Device Configuration to a File	Download	
Device Information	Paboot Py Timor		
Configuration	Reboot by filler		
Date And Time	Reboot By Timer		
Network Settings	Day	Monday 🗸	
	Time	O	
	Apply reboot settings	Apply	
	Device Management		
	Reboot Device	Reboot	
	Flush Recorder	Flush	
	Reset to Factory Default Settings	Raset	

- 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.

Click the "Apply" button to save the settings.

#### 4.5.3 "Date And Time" submenu

LELTEX		SV-BA401-E 🛛 🔊 (		
Video Watching		Date And Time		
Video Settings	<			
System Log		Time	05/22/2025 12:31 PM	
System settings	~	Timezone	Asia/Novosibirsk	
Device Information		NTP Server Synchronization	8	
Configuration			under and a second s	
Date And Time				
Network Settings	<			
Firmware Upgrade				

- 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

<b>∠</b> €LT€X			SV-BA401-E	en 🔹 🕞
Video Watching		Network Settings		
Video Settings	<			
System Log		Mode	Auto	
System settings	<	Ap	pply	
Network Settings				
Firmware Upgrade				
<b>Децтех</b>			SV-BA401-E	en 🔹 🕞
Video Watching		Network Settings		
Video Settings	<		(Marriel and	
System Log		мое	Manuai	
System settings	<	IP Address	192.168.0.2	
Network Settings		Network Mask	8.8.8	
Firmware Upgrade		Dns List		
		Default Gateway	192.168.1.1	
		A6	aphy	

- 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.

Click the "Apply" button to save the settings.

# 4.7 "Firmware Upgrade" menu

SV-BA401-E	en 🔹 🕞
Firmware Upgrade	
Himware Uki	
Start Upgrading	
	SV-BA401-E Firmware Upgrade Firmware UR Start Upgreding

• 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/