



Speaker for webinar: Alexander Payvin International projects coordinator









Eltex Company



The leading Russian manufacturer and developer of network and telecommunication equipment



Manufacturing complex in Novosibirsk

Experience

- 32 years experience in developing and manufacturing
- More than 1 500 employees

Partners

- More than 100 partner companies in Russia, CIS, Asia, Middle East
- More than 20 000 client companies
- 2 manufacturing plants –
 Novosibirsk and Kazakhstan



Planned expansion of Eltex





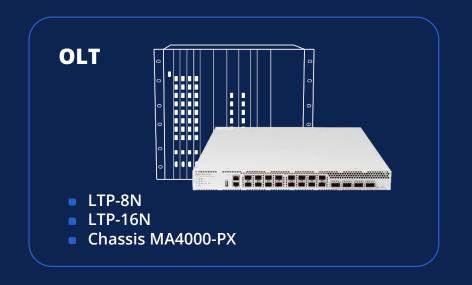
Building of the third facility

- Start of construction 2023
- Completion 2025
- Floor area: 12 floors
- Total area of the building: 32,363 m²
- Total number of employees 1,300 people
- Project status: construction started



GPON equipment







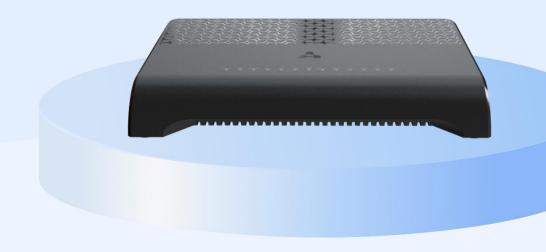


GPON equipment



Subscriber terminals – new models





NTU-RG-5520G-Wax 2Q2024

- 1 × GPON
- 4 × 1G
- Two band Wi-Fi (802.11a/b/g/n/ac/ax)
- 1 × USB 3.0

NTU-RG-5520G-Wax-Z

2Q2024

- 1 × GPON
- 4 × 1G
- Two band Wi-Fi (802.11a/b/g/n/ac/ax)
- 1 × USB 3.0
- Smart home controller

NTU-RG-5521G-Wax

- 1 × GPON
- 4 × 1G
- 1 × FXS
- Two band Wi-Fi (802.11a/b/g/n/ac/ax)
- 1 × USB 3.0

XGS-PON equipment

1

- XGS-PON solution released in 2023
- 10Gbps uplink/10Gbps downlink











XGS-GPON Equipment



Station terminal

LTX-8C

- Performance 120 Gbps
- 8 × GPON/XGS-PON (Combo)
 - 2 × 25G SFP28 2 × 100G QSFP28
- Maximum number of ONTs: 1024 GPON + 2048 XGS-PON
- 1U



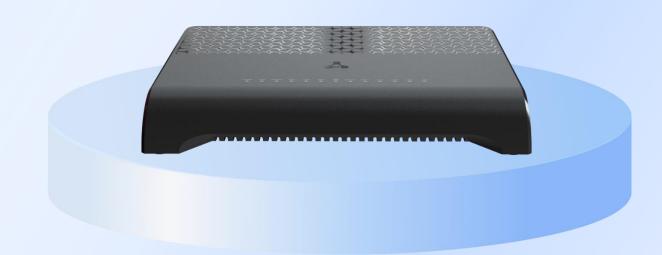
XGS-GPON Equipment



Subscriber terminal

NTX-RG-5521-Wax-Z 2Q2024

- 1 × XGS-PON
 - 1 × 10G
 - 4 × 1G
- 1 × FXS
- 1 × USB 2.0
 - 1 × USB 3.0
- Two band Wi-Fi (802.11a/b/g/n/ac/ax)
- Wi-Fi EasyMesh
- Smart home controller



XGS-GPON Equipment

Chassis solution



In development

MA5020

Performance Up to 160 Gbit/s

Interface modules (2 pcs)

MA5K-LC16G: 16 × GPON MA5K-LC16XG: 16 × XGS-PON

Number of ONTs

4K/8K

Management and switching modules (2 pcs)

FC16:

2 × 100G QSFP28 + 2 × 25G SFP28

FC16L:

2 × 25G SFP28

2U



In development

MA5160

Performance Up to 1.3 Tbit/s

Interface modules (16 pcs)

MA5K-LC16G: 16 × GPON MA5K-LC16XG: 16 × XGS-PON

Number of ONTs

32K/64K

Management and switching modules (2 pcs)

FC64:

6 × 100G QSFP28 + 4 × 25G SFP28

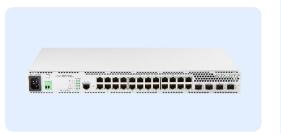
11U

Switches - common models



24xx Series

- L2+
- 1G-10G
- PoE/PoE+



23xx Series

- L2+L3
- 1G-10G
- PoE/PoE+
- Stacking



33xx Series

- L3
- 1G-10G
- 2 PSUs AC/DC
- Stacking



34xx Series

- L3
- 1G-10G
- 2 PSUs AC/DC
- Cost effective



53xxA Series

- L3
- 10G
- 2 PSUs AC/DC
- Stacking
- EVPN/VXLAN



54xx/55xx series

- L3
- 10G/25G/40G/100G
- 2 PSUs AC/DC
- Stacking
- EVPN/VXLAN



MES switches evolution

4

Availability scale

MES23xx	MES2300xx	Terms
MES2308R	MES2300-08	3Q2024
MES2308P	MES2300-08P	3Q2024
MES2324	MES2300-24	Available
MES2324B	MES2300B-24	Available
MES2324P	MES2300-24P	Available
MES2324F	MES2300-24F	Available
MES2324FB	MES2300B-24F	2Q2024
MES2328I	MES2300DI-28	3Q2024
MES2348B	MES2300B-48	Available
MES2348P	MES2300-48P	Available

MES33xx MES35xx	MES3300xx MES3500xx	Terms
MES3308F	MES3300-08F	2Q2024
MES3316F	MES3300-16F	2Q2024
MES3324	MES3300-24	Available
MES3324F	MES3300-24F	Available
MES3348	MES3300-48	Available
MES3348F	MES3300-48F	3Q2024
MES3508P	MES3500I-08P	3Q2024
MES3510P	MES3500I-10P	3Q2024

2410xx, 2420xx series access switches



Recent developments



MES2410-08DP

Available

- 80 Gbps
- 8 × 2.5G PoE/PoE+2 × 10G SFP+
- 1 PSU

MES2410-08DU

3Q2024

- 80 Gbps
- 8 × 2.5G PoE/PoE+/PoE+
 2 × 10G SFP+
- 1 PSU

MES2420B-24D

2Q2024

- 200 Gbps
- 24 × 2.5G4 × 10G SFP+
- 1 PSU + Cell battery

MES2420-24DP

4Q2024

- 200 Gbps
- 24 × 2.5G PoE/PoE+4 × 10G SFP+
- 1 PSU

MES2410-48DP

- 440 Gbps
- 48 × 2.5G PoE/PoE+
 4 × 25G SFP28
- 2 PSUs

34xx series aggregation switches



MES 34xx series switches can be used in service provider networks as aggregation or transport switches. They ensure high performance due to the universal interfaces operating at speeds of 1 Gbps or 10 Gbps, perform the support for static and dynamic routing, hot-swappable redundant power modules.

- Basic L3 functions
- Advanced security functions (L2-L4 ACL, IP Source Guard, Dynamic ARP Inspection, etc.)
- Hot-swappable redundant power modules



MES3400-24

Available for order

- 128 Gbps
- 24 × 1G4 × 10G SFP+
- 2 PSUs

MES3400-24F

Available for order

- 128 Gbps
- 24 × 1G SFP 4 × 10G SFP+
- 2 PSUs

MES3400-48

Available for order

- 176 Gbps
- 48 × 1G4 × 10G SFP+
- 2 PSUs

MES3400-48F

- 176 Gbps
- 48 × 1G SFP
 4 × 10G SFP+
- 2 PSUs

Special switches for industrial needs



- Advanced L2 features
- Multicast support (IGMP Snooping, MVR)
- Advanced security features (L2-L4 ACL, IP Source Guard, Dynamic ARP Inspection, etc.)



MES34001-24

2Q2024

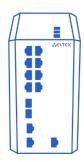
- 128 Gbps
- 24 × 1G4 × 10G SFP+
- 2 PSUs



MES3400I-24F

3Q2024

- 128 Gbps
- 24 × 1G SFP 4 × 10G SFP+
- 2 PSUs



MES3700I-8P8F

- 72 Gbps
- 8 × 1G PoE/PoE+ 8 × 1G SFP 2 × 10G SFP+
- 1 PSU (2 DC inputs)
- PRP/HSR support

Data center/core switch MES5410-48



Support for EVPN/VXLAN technology implemented in the devices enables networking with a simple, high-performance and scalable architecture for Leaf-Spine (Cloze network) data centers

MES5410-48

- Throughput- 3.6 Tbps
- 48 × 1G SFP / 10G SFP+ / 25G SFP28
 - 6 × 40G QSFP+ / 100G QSFP28
 - 1 × Console
 - 1 × 00B
 - 1 × USB 2.0
- Stacking up to 8 devices*
- Up to 2 PSUs (AC/DC)



Data center switches of 5300/5310 series





MES5300-24

4Q2024

Interfaces:

24 × 10G SFP+ 4 × 100G QSFP28

Redundant power supplies



MES5300-48 2Q2024

MES5310-48 4Q2024

Interfaces:

48 × 10G SFP+ 6 × 100G QSFP28

Redundant power supplies

Routers. ESR an ME series





ESR service routers

- For small, mid-sized, large corporate networks
- Firewall, NAT
- VPN
- Routing, MPLS
- Security (IPS/IDS, Anti-spam)
- From 1 to 46 Gbps

ME core routers

- High performance routers, can be used as a corporate or an operator's core or border
- Up to 19,2 Tbps performance
- Carrier grade routing and MPLS
- L2VPN/L3VPN
- Multicast routing
- HQoS

ESR service routers new models





ESR-15VF

2Q2024

- ≈ 1 Gbit/s
- 8 × 1G2 × 1G SFP4 × FXS
- 1 PSU

ESR-31

2Q2024

- ≈ 8 Gbit/s
- 8 × 1G6 × 1G SFP2 × 10G SFP+
- 2 PSUs

ESR-2100

3Q2024

- ≈ 20 Gbit/s
- 8 × 1G SFP8 × 10G SFP+
- 2 PSUs

ESR-3200L

3Q2024

- ≈ 20-25 Gbit/s
- 8 × 10G SFP+ 4 × 25G SFP28
- 2 PSUs

ESR-3300

- ≈ 70-80 Gbit/s
- 4 × 25G SFP284 × 100G QSFP28
- 2 PSUs

Backbone IP/MPLS routers



Pilot testing



ME6008

- Performance up to 19.2 Tbps
- Up to 2 ME6K-RCC1 Routing and Control Modules
- Up to 4 ME6K-FC96-8 Switch Factory Modules
- Up to 8 line modules:
 ME6K-LC24CGE: 24 × 100G QSFP28
 ME6K-LC48XGE: 48 × 25G SFP28
- Two DC power inputs
- Chassis height 15U



IP/MPLS routers



With support of SyncE and PTPv2



Routers can be used in 5G mobile communication networks as access and aggregation routers as well as cell-site gateway routers or edge routers

ME3100

4Q2024

- ≈ 2.4 Tbit/s
- 64 × 25G SFP28
 8 × 100G QSFP28
 2 × 100G QSFP-DD
- 2 PSUs
- 2 RU

ME3002

4Q2024

- ≈ 800 Gbit/s
- 24 × 25G SFP282 × 100G QSFP282 × 400G QSFP-DD
- 2 PSUs
- 1RU

ME5210S

2Q2024

- 720 Gbit/s
- 32 × 10G SFP+ 6 × 100G QSFP28
- 2 PSUs
- 1RU
- More powerful CPU
- RAM (up to 64 Gb)

ME2001

- ≈ 300 Gbit/s
- 16 × 10G SFP+8 × 25G SFP282 × 100G QSFP28
- 2 PSUs
- maintenance-free back panel
- Depth 300 mm
- 1RU

IP/MPLS routers



With support of SyncE and PTPv2

In development

ME2001

Performance

300 Gbit/s

Power supply

2 PSUs

Ventilation

1 ventilation module

Air stream from left to right 440_{MM} 300mm Reduced depth 2 × 100G QSFP28 8 × 25G SFP28 16 × 10G SFP+

No backside access is needed for maintenance. Front access to the power supplies and ventilation module. All redundant units are replaceable while the unit is running

ECCM



Centralized equipment management system



Roadmap 2024

- LDAP support for authentication and authorization
- Public API (NBI)
- Reports on data available in ECCM
- Log collector from syslog
- Hardware inventory
- Service inventory
- Development of ME, ESR, WLC, MES equipment support with new functionality
- Development of a group of security directions

NAICE



Access control system to the equipment and enterprise network



Key features

- Centralized policy storage and management
- Authentication of network users via 802.1X (RADIUS) protocol
- Authentication of network equipment administrators via TACACS+ protocol
- Registration of new users on the network (BYOD - Bring Your Own Device)
- User segmentation

Cisco ISE → Eltex NAICE

Main branches of VoIP equipment









Trunk gateways with redundancy support

TAU



Line of analog subscriber gateways



IP phones

Softswitch



SBC



Session border controller to protect against unauthorized access

Upcoming models of IP-Phones



VP-30P

2Q 2024



- CPU: 2 cores of 800 MHz
- DDR3: 256 MB
- NAND Flash: 512 MB
- PoE+ power supply
- Complete with expansion consoles
- 1GB ports
- Color LCD display
- Up to 6 SIP-accounts
- Automatic configuration and software updates (Autoprovision)

VP-100P



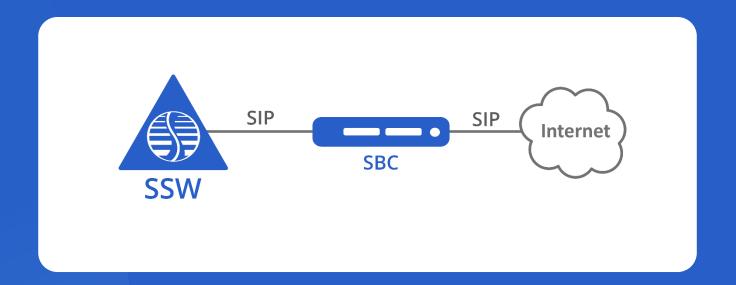
- 4 × Cortex-A53 1600 MHz
- DDR4 16 Gbit
- eMMC 8 GB
- Display 1024×600
- PoE+
- Up to 6 SIP-accounts
- 1GB ports
- Complete with expansion consoles





Session border controller



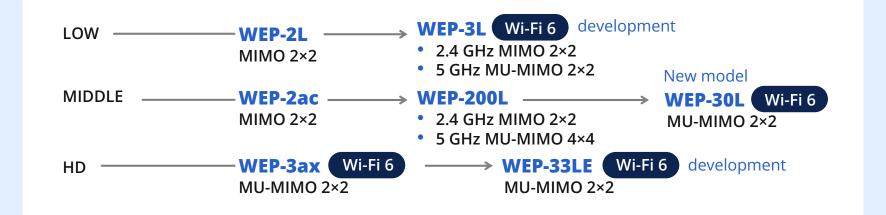


- Integrated with vESR
- Provides full-fledged information security within a given perimeter

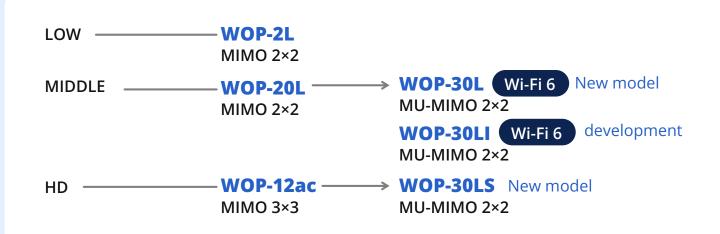
Wireless access points - serial devices



INDOOR



OUTDOOR



Wi-Fi 6: Outdoor



- Increase wireless network throughput
- Use in high-load, high-class-of-service networks

Middle WOP-30L

- 2.4/5 GHz 802.11ax
- MU-MIMO 2×2
- Seamless roaming 802.11r/k/v
- 1 Ethernet 2.5G port
- PoE+ 48 V/54 V (IEEE 802.3at-2009)
- Up to 50 users
- Centralized network management and monitoring with SoftWLC / WLC

Middle

WOP-30LS



- 2.4/5 GHz 802.11ax
- MU-MIMO 2×2
- Seamless roaming 802.11r/k/v
- 60×38 9dBi 2.4G, 11dBi 5G directional antenna
- 1 Ethernet 2.5G port
- PoE 48 V/56 V (IEEE 802.3af-2003)
- Up to 50 users
- Centralized network management and monitoring with SoftWLC / WLC

Middle

WOP-30LI



- 2.4/5 GHz 802.11ax
- MU-MIMO 2×2
- Seamless roaming 802.11r/k/v
- 2×2.5G Ethernet ports, 2×SFP (1G)
- PoE 48V/56V (IEEE 802.3af-2003), from 12V source
- Up to 50 users
- Centralized network management and monitoring with SoftWLC / WLC

WLC hardware controller lineup



- Management and monitoring of Wi-Fi access points
- Airtune. Management of access point radio parameters and roaming (802.11 r/k/v)
- WPA-Enterprise / WPA-Personal authorization
- Controller monitoring via SNMP
- Authorization on external Radius server

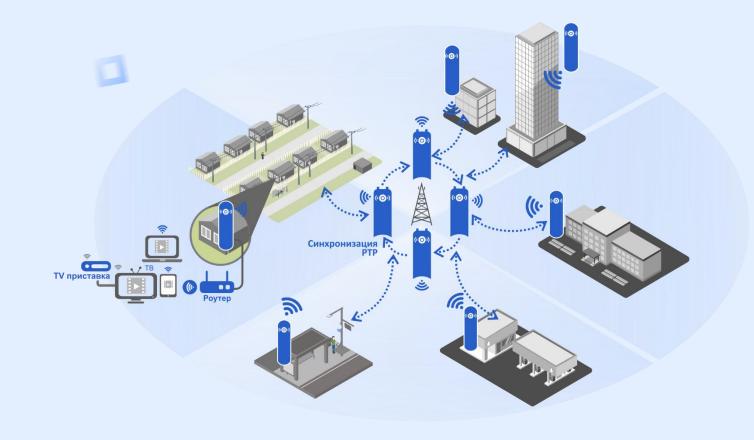


FBWA equipment

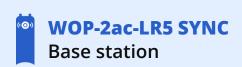


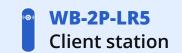
Key features

- Using one frequency for multiple base stations
- Synchronization of up to 4 base stations via PTP protocol
- Increased subscriber capacity









Wi-Fi-6 FBWA solution



WOP-3ax-LR6



- 6-7 GHz 802.11ax
- Transmit power up to 28 dBm
- SFP option
- Signal level indication
- Intersectoral synchronization
- Up to 50 users
- Centralized network management and monitoring with Eltex EMS

WB-3P-LR6



- 6-7 GHz 802.11ax
- Transmit power up to 28 dBm
- Signal strength indication

4Q2024





Eltex Home

Takes care of safety and comfort in one touch









ELTEX smart home



Eltex Smart Home automates and simplifies many household tasks: lighting and climate control, home security and monitoring. Smart devices are combined into a single system and controlled through convenient services in the Eltex Home application

Security

Management

Control

Survey







Sending notifications



Voice control



Cloud or local solution



Executing scenarios



Wireless technologies



Home state monitoring

Z-Wave sensors



New design



Wi-Fi Smart Devices







Wi-Fi camera



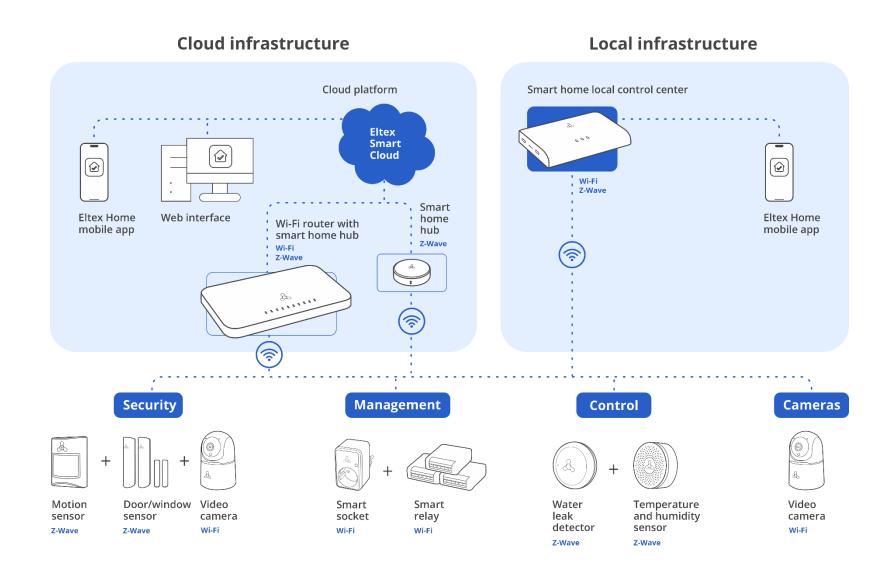


Characteristics	SV-C01
Power supply	Micro USB 5B 2A
Wireless network	IEEE 802.11 b/g/n 2.4 GHz/5 GHz
Sensor viewing angle	Horizontal 84°
	Vertical 46°
	Diagonal 99°
Angle of rotation	Horizontal 360°
	Vertical 110°
Supported resolutions	FullHD 1920 × 1080
	HD 1280 × 720
	nHD 640 × 360
Power consumption	Max 3.1 W
Dimensions (W × H × D)	77.5 × 116.3 × 77.5 mm
Weight	190 g
Matrix resolution	4 megapixels
Operating temperature	-5 to +35 °C

Eltex Home ecosystem

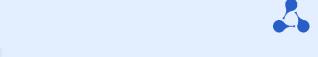


Two infrastructure options: cloud or local



Eltex Home infrastructure

Smart home hub



The device can connect to the router's home network either via LAN or Wi-Fi 2.4.

It performs the functions of the main Z-Wave hub.

The hub is added via the Eltex Home application.

The hub connects Z-Wave smart home sensors with the Eltex SC cloud platform

Key features of the cloud platform:

- Security: Contact door/window sensor, motion sensor
- Management: lighting and electrical appliances
- Control: temperature and humidity sensors, smoke detector, water leak detector
- Cameras: live streaming, recording video data to archive
- Working with scenarios and automation

SH-10-WZ

2Q 2024

ZigBee support with USB dongle in future versions



SH-20-WBZ

- Z-WAVE
- ZigBee
- Bluetooth
- 2Q-3Q 2024



SH-XX

4Q2024

+ Matter



Eltex Home infrastructure



Smart home local control center

Commands and information about the system operation are stored on a separate device where the local platform is installed.

It performs the same functions as the cloud one, but it does not transfer information to shared storage — the user data does not go beyond the perimeter of the home.

Key capabilities

- Security: Contact door/window sensor, motion sensor
- Management: lighting and electrical appliances
- Control: temperature and humidity sensors, smoke detector, water leak detector
- Cameras: live streaming, recording video data to archive
- Working with scenarios and automation

2Q 2024

ZigBee support with USB dongle in future versions

SL-10





Eltex Home application



Eltex Home application configures the operation of the smart home individually for each user. The application has a user-friendly interface, even a beginner can master it.

The app allows selecting only the services you need.

The app can be based on the cloud or local platform, the user can decide where it is more convenient to store data.



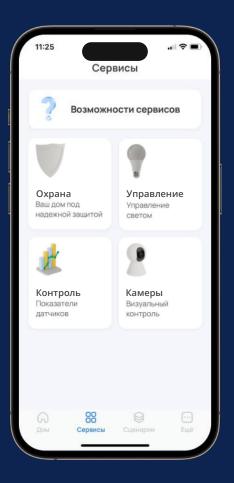


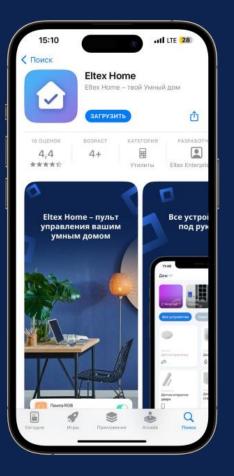
Sending notifications





Scan the QR code to download the application





Demo Mode Access









EVI Perimeter Enterprise – video monitoring system

EVI Perimeter



EVI video server is a complete solution for organizing a video monitoring system





Receiving video broadcasts from CCTV cameras

Arrangement of streams from different cameras on the same screen in different configurations

Viewing video broadcasts in real time

Formation and recording of video stream data in the archive

Access to the archive of video recordings from the client interface

Support for multiple video streams from a single camera

Motion Detection Module

Support for modern video codecs: H.264

Support for the RTP/RTSP video surveillance standard

Importing and exporting a list of cameras

User rights system, role support

The work of the visual client on the Linux platform

API for integration with third-party systems

EVI Perimeter

1

Ongoing development

- Sabotage Detector. Monitors video signal quality, informs services and operators about image problems
- Self-diagnostics.
 General checks for the server and its internal components
- Event and alarm system
- Service of camera detection in the local network.
 For convenient addition of cameras without manual entry of data in the main fields

- Blurring of frame areas. Blurring is effective only during live video broadcasting and on still images from the archive. The image is not blurred during archive playback.
- Hiding private information
- Car plate recognition
- Face recognition
- Import/export all server settings
- Premises plan



Cameras for citizen and business



Camera models



SV-B01

- 4M (2560×1440)
- Built-in speaker and microphone
- Memory card
- RAM 128 Mb
- Flash 16 Mb
- Fixed lens 2.8mm
- 25 fps
- DWDR
- IR up to 25m
- DC 12V/ PoE 802.3af



SV-B02

- 4M (2560×1440)
- RAM 128 Mb
- Flash 16 Mb
- Fixed lens 2.8mm
- 25 fps
- DWDR
- IR up to 25m
- DC 12V/ PoE 802.3af



SV-B03

- 4M (2560×1440)
- RAM 128 Mb
- Flash 16 Mb
- Variofocal 2.8mm lens
- 25 fps
- DWDR
- IR up to 25m
- DC 12B/ PoE 802.3af



Thank you for your attention!



We are always ready for dialog, development and customization of solutions in compliance with your ideas





630020, г. Novosibirsk, 29V Okruzhnaya St. 09:00 — 18:00 (GMT+7) Monday - Friday

