VisorJet Smart IP-cameras:

Bullet, Dome, Fisheye, PTZ, Bullet mini,

Dome mini

Operation Manual

VARSh. 201219.009RE/

ВАРШ.201219.009РЭ

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6.2 The storage of the product must be carried out in compliance with the

requirements of the manipulation signs applied to the packaging. Ошибка! Закладка не определена.5

6.3 The storage of the product must be carried out in compliance with the requirements of the manipulation signs applied to the packaging.Ошибка! Закладка не определена.

6.4 The shelf life of the product in a sealed package should be no more than 7 years with re-preservation and maintenance every 3 years**Ошибка! Закладка не определена.**

7 TransportationОшибка! Закладка не определена.

7.1 The product must be transported in packaging at an atmospheric pressure of at least 60 kPa (450 mm Hg), at an ambient temperature of -25° C to +50° C... Ошибка! Закладка не определена.

7.2 When transporting the product, the requirements of the handling signs applied to the packaging must be observedОшибка! Закладка не определена.
7.3 During transportation, the packaging with the product must be securely fastened to the means of transportation.....Ошибка! Закладка не определена.
7.4 The climatic conditions for transportation in containers Ошибка! Закладка не определена.

7.5 Cargo handling operation must be carried out in compliance with safety

regulations.....Ошибка! Закладка не определена.

7.6 After transportation in below-freezing temperatures, the product will be ready

for operation within 1 hour at temperatures down to -50 ° С... Ошибка! Закладка не определена.

8 8 Recycling informationОшибка! Закладка не определена.

8.1 The product does not contain elements that are hazardous to the environment, therefore no special measures are required for the disposal.....Ошибка! Закладка не определена.

8.2 The amount of nonferrous metals and precious materials contained in imported components is determined based on actual data obtained during disposal in

operating organizations.....Ошибка! Закладка не определена.

Appendix A List of accepted abbreviations

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This operation manual (hereinafter referred to as the OM) is intended to study the principle of operation of the VisorJet Smart IP-cameras of the Bullet, Dome, Fisheye, PTZ, Bullet mini, Dome mini VAPSh.201219.009 series (hereinafter referred to as the product), their devices and construction with the aim of correct operation, ensuring the full use of technical capabilities and maintaining in constant operability. The products work both independently and as part of video surveillance systems installed at the facility.

The personnel servicing the products must be certified for knowledge of electrical safety rules. The personnel need to study this manual and undergo special training in the use of computer technology and software.

1 DESCRIPTION AND OPERATION

1.1 Intended use

1.1.1 The product is designed to work as part of security video surveillance in indoor and outdoor conditions. The product functions both independently and as part of video surveillance systems.

1.1.2 The product is designed for long-term round-the-clock operation.

1.1.3 Maintenance of the product is carried out by the customer's service personnel, certified for knowledge of safety precautions during operator work at installations with voltages up to 1000 V, who have studied this OM and trained in the use of computer technology..

1.2 Technical specification

1.2.1 The main technical characteristics of the product are given in tables 1.1-1.5:

Parameter						
	VisorJet Smart Bullet 2МП		VisorJet Smart Bullet 5M∏		VisorJet Smart Bullet LPR	
	VJS-B620-2-LPR	VJS-B620-2	VJS-B621-2	VJS-B620-5	VJS-B621-5	VJS-B622-2-LPR
1. Video matrix	1/2	.8	1/2	1/2.8		1/2.8
2. Frame rate	120 fps	120 fps 60 fps		30 fp	30 fps	
3. Max. Image Resolution		1920 x 1080			2592 x 1944	
	3.0~10.5 mm	2.7~13.5 mm	3.6~10 mm	2.7~13.5 mm	7~22 mm	Without lens, for C /
4. Focal length	(replacement 2.7					CS mount
n room longer	~ 13.5 and 7 ~ 22					
	are allowed)					
5. IR illumination range, m		6	0		100	-
6. IR wavelength, nm		850				
	0.002 (F1.2 AGS o	n), 0 with IR on	0.001 (F1.2	0.005 (F1.2 AGS or	n), 0 with IR on	Color: 0.002 @
7. Sensitivity, lx			AGS on), 0 with			F1.2, B/W: 0.001
			IR on			@ F1.2
8. Signal-to-noise ratio, dB, min		140		120		140

Table 1.1	- Main cha	aracteristics	of the	VisorJet	Smart Bull	et series
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Parameter						
	VisorJ	⁷ isorJet Smart Bullet 2M∏		VisorJet Smart Bullet 5MII		VisorJet Smart Bullet LPR
	VJS-B620-2-LPR	VJS-B620-2	VJS-B621-2	VJS-B620-5	VJS-B621-5	VJS-B622-2-LPR
9. Video compression algo- rithm		H.265+/H.265(HEVC)/H.264+/H.264/MJPEG				
	120fps	60fps (1920x10)80, 1280x960,	30fps (2592x1	944), 45fps	120fps (1920x1080),
10. Frame rate (main	(1920x1080),	1280x720, 7	704x576)	(2048x1536), 60fj	os (1920x1080),	60fps (1920x1080,
stream)	60fps (1920x1080,	12001120, 10 110 10)		20fps (2592x1944),		1280x960,
	1280x960,			30fps (2048x1536, 1920x1080,		1280x720, 704x576)
	1280x720,			1280x960, 1280x	(720, 704x576)	
	704x576)					
(Second stream)	60fps (704x576,	30fps (704x576,	640x480,	30fps (704x576, 64	0x480,	60fps (704x576,
	640x480,	640x360, 352x28	88, 320x240,	640x360, 352x288, 320x240,		640x480, 640x360,
	640x360,	320x192, 320x18	80)	320x192, 320x180)		352x288, 320x240,
	352x288,					320x192, 320x180)
	320x240,					
	320x192,					
(Third stream)	320x180)					
	30fps (1920x1080), 1280x720, 704x	576, 640x480, 64	0x360, 320x240, 320	0x192, 320x180)	

	Parameter	Value						
		VisorJet Smart Bullet 2MII VisorJet Smart Bullet 5MII			VisorJet Smart Bullet LPR			
		VJS-B620-2-LPR	VJS-B620-2	VJS-B621-2	VJS-B620-5	VJS-B621-5	VJS-B622-2-LPR	
11.	Video stream	RTSP,	RTSP, ONVIF supported (PROFILE S & G & T)					
12. tocol	Supported network pro-	IPv4/IPv6, ARI	IPv4/IPv6, ARP, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL					
13.	Audio stream		G.711/AAC*					
14.	Power supply			PoE (802.3af)	/ 12B ± 10% DC			
15. max	Power consumption, W,	6 10,5 (when IR ill	umination on)	6 10 (when IR il- lumination on)	5 9 (when IR illun	nination on)	7	
16.	Dimensions, mm			134x126x285			115x62x50	
17.	Weight, g			1100			407	
18.	Body material		Metal, plastic					
19.	Controlled digital I / O	1/1						
20. O	External audio port I /		1/1					
* N	ote – no built-in microj	phone. Set of auc	lio wires, a mic	prophone and a l	loudspeaker – opt	ionally.		

Parameter		Value				
	VisorJ	et Smart Bullet 2	ΜΠ	VisorJet Smart Bullet 5M∏		VisorJet Smart Bullet LPR
	VJS-B620-2-LPR	VJS-B620-2	VJS-B621-2	VJS-B620-5	VJS-B621-5	VJS-B622-2-LPR
* Note – no built-in microphone. Set of audio wires, a microphone and a loudspeaker – optionally.						

Table 1.2 — Main characteristics of the VisorJet Smart Dome

Parameter		Value					
	VisorJet Smart Do	me 2MП	VisorJet Smart Dome 5	МΠ			
	VJS-D620-2	VJS-D621-2	VJS-D620-5	VJS-D621-5			
1. Video matrix	1/2.8	1/2	1/2.8				
2. Frame rate	60 fps		30 fps				
3. Max. Image Resolution	1920 x 108	0	2592 x 1944				
4. Focal length	2.7~13.5 mm	3.6~10 mm	2.7~13.5 mm	7~22 mm			
5. IR illumination range, m	50						
6. IR wavelength, nm		850					

Parameter	Value						
	VisorJet Smart Do	me 2MΠ	VisorJet Smart Dome 5	МΠ			
	VJS-D620-2	VJS-D621-2	VJS-D620-5	VJS-D621-5			
7. Sensitivity, lx	0.002 (F1.2, AGC on), 0 with IR	0.001 (F1.2, AGC on), 0 with IR 0лк с ИК	0.005 (F1.2, AGC on), 0 w	vith IR			
8. Signal-to-noise ratio, dB, min	140		120				
9. Video compression algorithm	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG						
10. Frame rate (main stream)	60fps (1920x1	080),	30fps (2592x1944),				
	30fps (1920x1080,	1280x960,	45fps (2048x1536),				
	1280x720, 704	x576)	60fps (1920x1080)),			
			20fps (2592x1944)),			
		30fps (2048x1536, 1920x1080 1280x720, 704x570), 1280x960, 5)				
	30fps (704x576, 640x480, 640	x360, 352x288,	30fps (704x576, 640x480, 640x	360, 352x288,			
(Second stream)	320x240, 320x192, 320x180)		320x240, 320x192, 320x180)				
(Third stream)	30fps (1920x1080, 1280x720,	704x576, 640x480, 640	0x360, 320x240, 320x192, 320x18	.0)			
11. Video stream	RTSP, ONVIF supp	oorted (PROFILE S & C	G & T)				

	Parameter	Value					
		VisorJet Smart Dome 2MΠ VisorJet Smart Dome 5MΠ					
		VJS-D620-2 VJS-D621-2 VJS-D620-5 VJS-D621-5					
12.	Supported network protocols	IPv4/IPv6, ARP, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL					
13.	Audio stream	G .711/AAC					
14.	Power supply	PoE (802.3af) / 12B ± 10% DC					
15.	Power consumption, W, max	8 12 (when IR illumination on)					
16.	Dimensions, mm		143x143x108	3.4			
17.	Weight, g		1100				
18.	Body material	Metal, plastic					
19.	Controlled digital I / O	1/1					
20.	External audio port I / O		0/1				

Parameter	Value				
	Vis	VisorJet Smart Bullet mi		ini VisorJet Smart	
	VJS-B603-2	VJS-B603-2-LPR	VJS-B603-5	VJS-D603-2	VJS-D603-5
1. Video matrix		·	1/2.8		
2. Frame rate	30 fps	120 fps		30 fps	
3. Max. Image Resolution	1920 x	1080	2592 x 1944 1920 x 1080 2592 x 1944		
4. Focal length	3.6	2.7-13.5	3.6		
5. IR illumination range, m	30	50	30	25	30
6. IR wavelength, nm		850			
	0.002 (F1.2, AGC	0.002 (F1.2, AGC	0.005 (F1.2, AGC	0.002 (F1.2, AGC on), 0	0.005 (F1.2, AGC
7. Sensitivity, ix	on), 0 with IR	on), 0 with IR	on), 0 with IR	with IR	on), 0 with IR
8. Signal-to-noise ratio, dB, min	14	0	120	140	120
9. Video compression algo- rithm	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG				
10. Frame rate (main stream)	30fps (1920x1080,	120fps (1920x1080,	20fps (2592x1944,	30fps (1920x1080,	20fps (2592x1944),
	1280x960,	1280x960, 1280x720, 704x576)	2592x1520,	1280x960, 1280x720,	30fps (2048x1536,
	1280x720, 704x576)	MJPEG 30fps (1920x1080.	2048x1536)	704x576)	1920x1080,

Table 3.3 - Main parameters of the VisorJet Smart mini series product

Parameter	Value				
	Vis	VisorJet Smart Bullet mi		VisorJet Smart	Dome mini
	VJS-B603-2	VJS-B603-2-LPR	VJS-B603-5	VJS-D603-2	VJS-D603-5
		1280x960, 1280x720, 704x576)	30fps (1920x1080, 1280x960, 1280x720, 704x576)		1280x960, 1280x720, 704x576)
(Second stream) (Third stream)	30fps (704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)	120fps (704x576, 640x480, 640x360, 352x288, 320x240, 320x192,320x180)	20fps (2592x1944), 30fps (2048x1536, 1920x1080, 1280x960, 1280x720, 704x576)	30fps (704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)	30fps (704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)
	30fps (1920x1080,	1280x720, 704x576,	640x480, 640x360, 32	20x240, 320x192, 320x180))
11. Video stream	RTSP, ONVIF supported (PROFILE S & G & T)				
12. Supported network pro- tocols	IPv4/IPv6, ARP, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP, SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL				
13. Audio stream	No G .711/AAC			AC	
14. Power supply	PoE (802.3af)				
15. Power consumption, W, max	3	8	3,5	2,5	2,5

	Parameter	Value				
		Vis	VisorJet Smart Bullet mini			Dome mini
		VJS-B603-2	VJS-B603-2 VJS-B603-2-LPR VJS-B603-5		VJS-D603-2	VJS-D603-5
		5 (when IR illumi-	11,5 (when IR illu-	5,5 (when IR illumi-	4 (when IR illumination	5,5 (when IR illumi-
		nation on)	mination on)	nation on)	on)	nation on)
16.	Dimensions, mm	97x74x180	76x76x240	97x74x180	106x75,5	119x111x65
17.	Weight, g	610	825	610	410	500
18.	Body material	Metal, plastic				
19.	Controlled digital I / O			-		
20. O	External audio port I /		-		integrated micro	ophone /1

Table 4.4 - Main parameters of PTZ series product

Parameter			
	VisorJet Si	nart PTZ	VisorJet Smart Speed PTZ
	VJS-P612-2-LPR	VJS-P612-5	VJS-P622-5
1. Video matrix		1/2.8	
2. Frame rate	120 fps	30 fps	60 fps
3. Max. Image Resolution	1920 x 1080	2592 x	x 1944
4. Focal length	5.3~64 mm 12x optical zoom 4.7~141 mm 30x optical z		
5. IR illumination range, m	140		200
6. IR wavelength, nm	850		
7. Sensitivity, lx	0.002 (F1.2, AGC on), 0 with IR 0.005 (F1.2, AGC on), 0 with IR		
8. Signal-to-noise ratio, dB, min	140 120		20
9. Video compression algo- rithm	H.265+/H.265(HEVC)/H.264+/H.264/MJPEG		
10. Frame rate (main stream)	120fps (1920x1080),	30fps (2592x1944),	30fps (2592x1944),
60fps (1920x1080, 12 1280x720, 704x5	60fps (1920x1080, 1280x960,	45fps (2048x1536),	45fps (2048x1536),
	1280x720, 704x576)	60fps (1920x1080),	60fps (1920x1080, 1280x960,
		20fps (2592x1944),	1280x720, 704x576)

Parameter	Value			
	VisorJet Smart PTZ		VisorJet Smart Speed PTZ	
	VJS-P612-2-LPR	VJS-P612-5	VJS-P622-5	
		30fps (2048x1536, 1920x1080, 1280x960, 1280x720, 704x576)		
	60fps (704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)	30fps (704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)	60fps (704x576, 640x480, 640x360, 352x288, 320x240, 320x192, 320x180)	
	30fps (1920x1080, 1280x720, 704x	576, 640x480, 640x360, 352x288, 320	x240, 320x192, 320x180)	
(Second stream)				
(Third stream)				
11. Video stream	RTSP, ONVIF supported (PROFILE S & G & T)			
12. Supported network pro-	IPv4/IPv6, ARP, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP,			
tocols	SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL			
13. Audio stream	nc)	G .711/AAC	
14. Power supply	PoE (802.3at) / 12B ± 10% DC		PoE (802.3at) / 24B ± 10% AC	
15. Power consumption, W,	DC 12V: 10.5W MAX / 15W MAX (when IR illumination on)		16.5	
max	PoE power supply: 14W MAX / 20	35.5 (when IR illumination on)		
16. Dimensions, mm	160x274x210		205x205x308	
17. Weight, g	2000		4000	

	Parameter	Value		
		VisorJet Smart PTZ		VisorJet Smart Speed PTZ
		VJS-P612-2-LPR	VJS-P612-5	VJS-P622-5
18.	Body material	Metal, plastic		
19.	Controlled digital I / O	1/1		2/2
20. O	External audio port I /	-		1/1

Table 5.5 - Main parameters of the Fisheye series product

Parameter	Value		
	VisorJet Smart Fisheye		
	VJS-F603-5	VJS-F603-12	
1. Video matrix	1/2.8	1/1.7	
2. Frame rate	30 fps		
3. Max. Image Resolution	2592x1944	4000x3000	
4. Focal length	1.68 mm	1.98 mm	
5. IR illumination range, m	15		
6. IR wavelength, nm	850		

Parameter	Value			
	VisorJet Smart Fisheye			
-	VJS-F603-5	VJS-F603-12		
7. Sensitivity, lx	0.005 (F1.2, AGC on), 0 with IR	0.01 (F1.2, AGC on), 0 with IR		
8. Signal-to-noise ratio, dB, min	120)		
9. Video compression algo- rithm	265+/H.265(HEVC)/H.264+/H.264/MJPEG	H.265+/H.265(HEVC)/H.264+/H.264/		
	30fps 2592x1944 (Original)	Fisheye 30fps (4000x3000, 3000x3000,		
10. Frame rate (main stream)	$30 \text{fpc} 2560 \times 1440, 1020 \times 1080, 1280 \times 720$	2560x2560, 1920x1920, 1280x1280)		
	501p3 2500x1440 1920x1000, 1200x120	Panoramic 30fps: (3000x752, 2560x640, 1920x480)		
		Double panoramic 30fps: (3000x1680, 2688x1520, 1920x1080, 1280x720)		
		4PTZ 20fps: (4000x3000), 30fps: (3840x2160, 3072x1728)		
		3PTZ+F 15fps: (4000x3000), 20fps: (3840x2160), 25fps: (3072x1728)		
		3PTZ+P 20fps: (4000x3000), 30fps: (3840x2160, 3072x1728)		
(Second stream)	30fps (640x480, 640x360, 320x240)	Fisheye 25fps: (1280x960, 1024x1024, 720x720, 320x320)		
		Panoramic 30fps: (1920x480, 1280x320, 960x240)		

Parameter		Value		
		VisorJet Smart Fisheye		
		VJS-F603-5	VJS-F603-12	
			Double panoramic 30fps: (1280x720, 704x576, 640x480, 320x240)	
			4PTZ 25fps (1920x1080, 1280x720)	
			3PTZ+F 25fps: (1920x1080, 1280x720)	
			3PTZ+P 20fps: (1920x1080, 1280x720)	
		30fps(1920x1080, 1280x720, 704x576, 640x480,	-	
		640x360, 320x240, 320x192, 320x180)		
11.	Video stream	RTSP, ONVIF supported (PROFILE S & G & T)		
12.	Supported network pro-	IPv4/IPv6, ARP, TCP, UDP, RTP, RTSP, RTCP, HTTP, HTTPS, DNS, DDNS, DHCP, FTP, NTP, SMTP,		
toco	S	SNMP, UPnP, Bonjour, SIP, PPPoE, VLAN, 802.1x, QoS, IGMP, ICMP, SSL		
13.	Audio stream	G .711/AAC		
14.	Power supply	PoE (802.3af) / 12B ± 10% DC		
15.	Power consumption, W,	4.1	4.8	
max		7.1 (when IR illumination on)	8 (when IR illumination on)	
16.	Dimensions, mm	95.8x74x158.5	140x140x46	
17.	Weight, g	630	1100	

	Parameter	Value		
		VisorJet Smart Fisheye		
		VJS-F603-5	VJS-F603-12	
18.	Body material	Metal, plasti	ic	
19.	Controlled digital I / O	-	1/1	
20. O	External audio port I /	-	-/1	

1.2.2 The product does not generate any radiation hazardous to technical personnel. Live components are protected to ensure the safety of the operating personnel.

1.2.3 For the correct viewing of video images from the product, the following requirements are imposed on a personal computer (hereinafter referred to as PC):

In the hardware part:

- central processor not worse than Intel®, Pentium®, DUAL Core (D) CPU;
- clock frequency not less than 1.66 GHz;
- RAM at least 1 GB;
- network connection not less than 100 Mbit / s;
- monitor resolution at least 1280x1024 pcl;
- the presence of a speaker system or headphones.

In the software part:

- operating system Windows 10;
- the presence of installed web browsers Internet Explorer version 8.0 or higher;

- the presence of the installed software ONVIF Device Manager or ONVIF Device Tool Lingodigits®.

1.2.4 Product reliability indicators are shown in Table 6.

Table 6 - Product reliability indicators

Parameter	Value	
Average service life, years, not less	5	
Mean time between failures of a workplace, h, not less	30000	
Notes - Failure is understood as the impossibility of establishing any type of connection due to the technical condition of the equipment and software for more than 1 minute.		

1.3 Components

1.3.1 The product is a functionally and structurally complete device consisting of a product body, a movable bracket and a commutation cable.

1.3.2 The overall dimensions of the product are shown in Figures 1 - 11.



Figure 1 - IP-camera VisorJet Smart Bullet Product line: VJS-B620-2-LPR \ VJS-B620-2 \ VJS-B620-5 \ VJS-B621-2 \ VJS-B621-5







Figure 3 — IP-camera VisorJet Smart Dome.

Product line: VJS-D620-2 \ VJS-D620-5 \ VJS-D621-2 \ VJS-D621-5



Figure 4 — IP-camera VisorJet Smart Bullet mini Product line: VJS-B603-2 \ VJS-B603-5



Figure 5 — IP-camera VisorJet Smart Bullet mini Product line: VJS-B603-2-LPR



Figure 6 — IP-camera VisorJet Smart Dome mini Product line: VJS-D603-2

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Figure 8 — IP-camera VisorJet Smart PTZ. Product line: VJS-P612-5, VJS-P612-2-LPR

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Figure 9 — IP-camera VisorJet Smart Speed PTZ. Product line: VJS-P622-5



Figure 10 — IP-camera VisorJet Smart Fisheye. Product line: VJS-F603-5



Figure 11 — IP-camera VisorJet Smart Fisheye. Product line: VJS-F603-12

2 DESIGN AND OPERATION

2.1.1 Product design

2.1.1.1 VisorJet Smart Bullet Series, Models: VJS-B620-2-LPR, VJS-B621-2, VJS-B620-5, VJS-B621-5.



2.1.1.2 VisorJet Smart Bullet Series, Model: VJS-B622-2-LPR.



2.1.1.3 VisorJet Smart Dome Series, Models: VJS-D620-2, VJS-D621-2, VJS-D620-5, VJS-D621-5.



2.1.1.4 VisorJet Smart Bullet mini Series, Models: VJS-B603-2, VJS-B603-5



2.1.1.5 VisorJet Smart Bullet mini Series, Model: VJS-B603-2-LPR



2.1.1.6 VisorJet Smart Dome mini Series, Product line: VJS-D603-2



2.1.1.7 VisorJet Smart Dome mini Series, Model: VJS-D603-5



Power supply indicator

2.1.1.8 VisorJet Smart PTZ Series, Models: VJS-P612-2-LPR, VJS-P612-5



2.1.1.9 VisorJet Smart Speed PTZ Series, Model: VJS-P622-5



2.1.1.10 VisorJet Smart Fisheye Series, Model: VJS-F603-5



2.1.1.11 VisorJet Smart Fisheye Series, Model: VJS-F603-12



2.1.1.12 The product is made in a metal case with plastic inserts.

2.1.1.13 The product contains the following connectors:

RJ-45 port for connecting the product to an Ethernet network of the IEEE 802.3, IEEE 802.3af or IEEE 802.3at standards;

- microSD slot.

Optional:

- DC connector for connecting a 12 V or ~ 24 V power supply;
- GPIO connector; audio jack; RS485.
- 2.1.1.14 The product is also equipped with:
- built-in IR illumination;
- Reset button;
- motorized lens, Bullet, Dome, PTZ;
- 360 ° rotary mechanism in PTZ version.

2.1.2 **Operation**

2.1.2.1 The product can operate both independently and as part of video surveillance systems installed at the facility.

2.1.2.2 The product operates on the basis of the Linux operating system.

2.1.2.3 The product performs the following functions:

- broadcasts one (main) or simultaneously two or three video streams (main and additional);

- works in shifts in day and night modes. Switching is done automatically;

 – corrects the incoming video image (smoothing the defects of different-contrast lighting, suppression of noise, compensation of background illumination);

- superimposes additional information on the video stream (date, time, text, etc.).

2.1.2.4 The product is connected to an Ethernet network using an RJ-45 connector. Also, through this connector, the product can be connected to the power supply (using a PoE injector).

2.1.2.5 Use the web interface to view video data in real time and configure the parameters of the product.

2.1.2.6 The product supports the ONVIF protocol, which allows you to view video data in specialized software that supports this protocol.

2.1.2.7 The product software supports the update function. In this case, the update is carried out by the maintenance personnel in the product web interface. Information about the latest updates is available on the manufacturer's website www.visorjet.ru.

2.1.2.8 The product performs a self-diagnosis function and, in the event of a malfunction, displays error messages in the web interface.

2.1.2.9 The web interface of the product contains tabs, a brief description of which is presented in Table 7, for a complete description see Appendix B.

Tab Name	Description
Live Video	To view video in real time, select the language, select the configura- tion of the video stream and switch between video streams.
Storage	To view video images (in the off-fline mode) recorded in the camera's internal memory.
Local path	To select the path for recording video images.
Basic Settings	Configuring the product and contains the tabs: Video, Image, Audio, Network, Date&Time.
Advanced Settings	Configuring the product settings related to security and contains the tabs Alarm, Storage, Security, SIP, Smart Event, Logs.
System	Provides information about the device. Designed to change the device name and inform about device and software versions, camera model, MAC address, device operating time

Table 7 - Tabs of the device web interface

Maintenance	It is intended for flashing the device, resetting to factory settings.
	forced rebooting the device, exporting and importing the configura-
	tion file, enabling auto-restart and its periods.

2.1.3 Measuring instruments, tools and accessories

2.1.3.1 For the operation and maintenance of the product, apart from a PC, no special tools are required.

PC system requirements:

OS: Windows XP / Vista / 7/8/10 / Server 2000 / Server 2008.

Processor: 1.66GHz or higher, RAM: 1GB or higher.

Graphics memory: 128MB or higher.

Internet Protocol: TCP / IP (IPv4 / IPv6).

Web browser: Internet Explorer 8.0.

2.1.4 Marking and sealing

2.1.4.1 Product marking is made in accordance with the requirements of the design documentation and contains:

- brand and model;

- sign of the certificate of conformity (if any).

- serial number (includes month and year of manufacture);

- MAC address of the product;

- information about the static IP address;

- information about the input power supply.

2.1.4.2 Sealing of the product is made by sticking a seal on the body of the product.

2.1.4.3 Sealing is carried out after acceptance tests, as well as after repair or when the product is put into operation at the customer's site.

2.1.4.4 It is not allowed to remove the seals during operation.

2.1.5 Packaging

2.1.5.1 The product is packed in a package that ensures the safety of the product during storage and transportation.

2.1.5.2 Package marking meets the requirements of the assembly drawing for the package.

3.1 Operating limitations

3.1.1 The product is designed for round-the-clock continuous operation in outdoor conditions under the following climatic conditions:

- ambient temperature from -40 to +60 oC;

- atmospheric pressure not lower than 525 mm Hg. (70 kPa);

- relative humidity no more than 95%;

- lack of moisture condensation and aggressive impurities.

3.1.2 The maximum service life and constant readiness of the product for operation is ensured by:

- regular checking of the product technical condition;

- compliance with the measures for product operation preparing, provided for in clause

3.3;

- systematic control of the product operativeness, as indicated in clause 3.4.2;

- immediate elimination of malfunctions arising during operation;

- timely repair of the product in accordance with Section 5.

3.2 Unpacking and checking the contents

3.2.1 The product must be packed in a package.

3.2.2 The packed product must be stored in its original packaging under the conditions specified in Section 6 of this OM

3.2.3 Upon receipt of the product at the place of operating, it is necessary to:

a) open the packing boxes;

b) check the completeness of the product indicated in the VARSH.201219.009PS passport or in the label;

c) make the necessary entries in the passport VARSH.201219.009PS

3.3 Preparation for use

3.3.1 Safety precautions during preparation for work

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3.3.1.1 When preparing the product for operation, the safety measures specified in clause 3.5.1 should be observed.

3.3.2 Scope and sequence of external inspection

3.3.2.1 During the external inspection of the product before switching on, make sure that there are no external damages.

3.3.3 Installation sequence

3.3.3.1 The product is installed by the buyer himself.

3.3.3.2 The product is installed in the following sequence:

1) attach the product to the installation site, at the same time you can choose any position of the bracket that satisfies the method of fixing the cable;

2) mark the attachment points;

3) drill a hole in which the dowels should be installed;

4) fix the product on the surface with self-tapping screws;

5) connect the product to the video surveillance system by switching the network cable to the RJ-45 port;

6) connect the product to the power supply using a network cable, if the counterpart of the cable is connected to the PoE injector. If power supply using PoE technology is not possible, then the product must be powered from an external power supply $12V \pm 0.25V$ (not included in the delivery set);

7) point the product to the video surveillance object;

8) if the product is equipped with a motorized varifocal lens, adjust the viewing angle directly at the installation site. To do this, you need to use the web interface.

3.4 Prestarting procedures

3.4.1 Preparing the product for operation before electric power supply includes:

- checking the reliability of fixing the product in place;
- checking the reliability and correctness of connecting all cables, as well as the absence of damage to the cables;

- holding for 1 hour to heat the device if it was transported or stored at negative temperatures (up to -50° C).

3.4.2 Switching sequence and functional check

3.4.2.1 Before turning on the product, perform the actions described in clause 3.3 (Preparation for use).

3.4.2.2 The power supply to the product starts immediately after connecting the power cables to the DC connector or to the RJ-45 connector if the device is powered using a PoE injector.

3.4.2.3 Malfunctions detected during the start-up process, as well as if it is impossible to eliminate the malfunctions described in clause 5.3, are the basis for transferring the product for repair.

3.4.3 Shutdown sequence

3.4.3.1 To cut off the power supply to the product, pull out the wire from the DC connector or from the RJ-45 connector if it is used to supply power.

3.5 Product use

3.5.1 Security measures

3.5.1.1 Operation of the product should be carried out by engineering and technical personnel with special training in the field of computer technology.

3.5.1.2 When equipping the workplace, preparing for work and operating the product, it is necessary to comply with safety requirements when working on installations with voltages up to 1000 V.

3.5.1.3 The following rules should be observed, when using the product:

- check the correct function and operativeness of the product before starting work, as indicated in clause 3.4.2;

- turn on and off the product as indicated in clause 3.4.2;

3.5.2 Using

3.5.2.1 Prepare the product for use in accordance with clause 3.3 and turn on the product as indicated in clause 3.4.2

3.5.2.2 The start-up of the product is carried out automatically after power supply without intervention of the service personnel.

3.5.2.3 The product has a static IP address 192.168.5.190, by which it can be found on the network.

3.5.2.4 Connect directly to the PC after setting a static address on it.

3.5.2.5 Log into 192.168.5.190 through a web browser and enter the password.

3.5.2.6 The product has a standard account named "admin" and password "en123456". After the first authentication in the web interface, it is recommended to change the account name and password for further work.

3.5.2.7 The settings for the operation of the product and the viewing of video data are performed in the web interface.

3.5.2.8 Description of the product settings and operation actions is presented in Appendix B "Product web interface".

3.5.3 Procedure in the event of product failure

3.5.3.1 The employee who ensures the operation of the product, in case of a breakdown, should report any problems that have occurred to the technical support service of the manufacturer.

3.5.3.2 If the product has not fully recovered, try to find the fault using the recommendations of the table Error! Reference source not found.

3.5.3.3 Information about failures and performed replacements should be recorded in the product passport.

4 MAINTENANCE

4.1 General instructions

4.1.1 Maintenance of the product is carried out in order to maintain it in working condition, to maintain technical characteristics and reliability indicators specified in clause 1.2.

4.1.2 Maintenance of the product is performed by the service personnel and at the expense of the operating organization.

4.1.3 Maintenance of the product is carried out according to the schedule drawn up and approved by the consumer, taking into account the requirements of this section of the OM.

4.1.4 Maintenance of the product is carried out by the customer's service personnel, certified for knowledge of safety precautions during operator work on installations with voltages up to 1000 V, who have studied this OM and trained in the use of computer technology.

4.1.5 The product subject to maintenance must have a complete set of hardware, a complete set of operational documentation and consumables used for maintenance.

4.1.6 The product is subject to quarterly technical maintenance.

4.1.7 The faults identified during maintenance should be eliminated in accordance with section 5.

4.2 Safety measures

4.2.1 Safety measures during maintenance of the product must comply with the requirements of subsection 3.3 of this OM.

4.3 Maintenance procedure

4.3.1 Technical maintenance of the product is presented in Table 8.

Item	Name of the object of maintenance and work	Note
Cleaning the	Cleaning of the lens and external surfaces is car-	Materials:
product from	ried out by wiping with a soft cloth soaked in a	-special cleaning agent;
dust	special degreaser. Using a coarse cloth may	- napkins made of non-woven
	cause scratching. DO NOT USE TECHNICAL	material, microfiber or artificial
	ALCOHOL TO CLEAN THE LENS	suede

Table 8 - Quarterly product maintenance

4.4 Function check of the product

Function check of the product is carried out by an employee of the operating company according to the following method:

1) connect the product to power supply and Ethernet;

2) make sure that the power indicator located on the RJ-45 connector is blinking green. If the connector is hidden among communications (for example, in the ceiling), then go to step 3);

3) open the web interface of the product on the display device and log in;

4) set the required settings for the video stream(s);

5) save the settings;

6) make sure the video data occurs in the web interface.

The product is considered to be operational if the settings are adjusted and saved, and the video stream is broadcast in real time in the product web interface.

5 RUNNING MAINTENANCE

Running maintenance of the product is not provided.

5.1 General characteristics of faults

5.1.1 Normal operation of the technical means of the product is possible only with strict observance of the operating rules and with timely maintenance.

5.1.2 The main causes of malfunctions include:

- non-observance of the rules of operation, transportation and storage;
- untimely and poor-quality maintenance of equipment and untimely elimination of identified faults;
- mechanical damage resulting in cable breakage;
- contact failures in various circuits and connectors due to contamination, oxidation and burning of surface contacts or insufficiently tight connection;
- breakage of the 12 V power supply or PoE injector.

5.2 Failure detection

5.2.1 For quick failure detection, operating personnel need to know the structure and principles of the product.

- 5.2.2 It is prohibited to open and make any changes to the product in failure correction.
- 5.2.3 Failure correction is carried out by means of external inspection.
- 5.2.4 During an external inspection you should:
- inspect a failed product for mechanical damage, traces of oxidation, burning and contamination of electrical contacts and connections;
- make sure the integrity of the product body and the reliability of the connection of cables with the product connectors

5.3 Typical malfunctions and methods of their elimination

5.3.1 Description of typical product malfunctions is presented in Table 9.

Table 9 - Typical malfunctions of the product

Malfunction	Source	Remedy
-------------	--------	--------

No video image in the web inter- face	Product malfunction	Reboot the product pro- grammatically (in the web interface) or by removing and connecting the power cable. If it does not help, save the settings and reset to factory settings (resetting the net- work configuration is not necessary), then import the settings.
	Required web browser plugins not installed	Install the plugins sug- gested by the browser.
License plate not recognized	Lens out of focus	Enable automatic focus or set manually.
	Recognition region is not set	In the Additional settings >> LPR >> Settings tab, set the recognition region.
	No license	Enter the license key on the tab: Additional settings >> LPR >> Settings
The camera is not visible on the	No connection	Check connections
network	The network settings are in- correct	Reset the camera to factory settings. Respecify the settings.
	Damaged cable	Replace cables, check the correctness of the cable preparation.

5.3.2 Software reset.

Go to the Maintenance tab and click the reset button for a software reset.

VE	ES-NeoTek Netv	vork Camera					💄 admin 🛛 🕞 Bis
e He	ORBUC ODEK	Обслуживани	е				
_		Обслуживание	Автоперезагрузка				
	Архив Локальный путь		Внимание	Не отключайте питание устрой перезагружено по	ства во время обновления сле обновления ПО.	 Устройство будет 	^
ø	Основные		Cố	ос Осхранить сетевые настройки Ос Сохранить информацию	Сброс		_
	Изображение Аудио		Экс	пользователя порт файла конфигурации:	Экспорт		
	Сеть Дата и время		Кон	фигурационный файл: In конфигурации:	Инпорт	Обзор	
ď	Дополнительные		Пег	езагрузка			
Ψ.	Система		Der	esamuaut, vernoùerao.	Denasarnyaya		

5.3.3 Hard reset.

Step 1: Press the reset button and hold, then turn on the camera and the IR LEDs will flash;

Step 2: Keep pressing the reset button until the IR LEDs stay always on;

Step 3: Release the reset button, the camera will start reset;

Step 4: It will take $1 \sim 3$ minutes to complete the reset and the IP address will turn to 192.168.5.190 (If the IP address is not changed to 192.168.5.190, please try again from step 1);

Step 5: Change your local IP address again to the required one.

6 STORAGE

6.1 The product should be stored in a heated and ventilated warehouse:

- in the manufacturer's packaging at an ambient temperature from +5 to + 50°C and relative air humidity up to 80% at +25° C;
- without packaging at an ambient temperature of +10 to + 50° C and a relative air humidity of 80% at + 25° C.

6.2 The storage of the product must be carried out in compliance with the requirements of the manipulation signs applied to the packaging.

6.3 The storage room should be free of dust, acid and alkali fumes, corrosive gases and other harmful impurities that cause corrosion.

6.4 The shelf life of the product in a sealed package should be no more than 7 years with represervation and maintenance every 3 years.

7 TRANSPORTATION

7.1 The product must be transported in packaging at an atmospheric pressure of at least 60 kPa (450 mm Hg), at an ambient temperature of -25° C to $+50^{\circ}$ C.

7.2 When transporting the product, the requirements of the handling signs applied to the packaging must be observed.

7.3 During transportation, the packaging with the product must be securely fastened to the means of transportation.

7.4 The climatic conditions for transportation in containers must be:

- ambient temperature from -50 to +50 $^{\circ}$ C;

- relative humidity 98% or less (at a temperature not higher than 25 ° C);

- atmospheric pressure from 84 to 106.7 kPa (from 630 to 800 mm Hg).

7.5 Cargo handling operation must be carried out in compliance with safety regulations.

7.6 After transportation in below-freezing temperatures, the product will be ready for operation within 1 hour at temperatures down to -50 ° C.

8 RECYCLING INFORMATION

8.1 The product does not contain elements that are hazardous to the environment, therefore no special measures are required for the disposal.

8.2 The amount of nonferrous metals and precious materials contained in imported components is determined based on actual data obtained during disposal in operating organizations.

Appendix A List of accepted abbreviations

PoE – Power over Ethernet

IR – Infrared

OM - Operation Manual

TFC – temperate and frigid climate

Appendix B Product web interface

B.1 Login to the web interface

To enter the product web interface, you must:

1) Enter the IP address "192.168.5.190" in the address bar of the web browser.

	-	- 🗆	\times
(<) (©) http://10.1.55.251/index.html	<i>р</i> -	☆☆	() ()
8 ELVES-NeoTek Network Ca × 1			
			^
ELVES-NeoTek Network Camera			
	_		
<			>

Figure B.1 - Entering the IP address in a web browser

As a result, an authentication window will appear.

- 2) enter the data of the standard account:
 - a) the name "admin" in the "Username" field;
 - b) password "en123456" in the "Password" field.

	Язык: Русский 🔻
E A A BUC	
Heolek	
admin	
	Запомнить меня
Вход	

Figure B.2 - Authentication window

3) choose a language

4) click the Login button.

This will open the View tab of the product web interface.

B.2 Setting the parameters of the product

The settings for product operation are in the Configuration tab, which includes the tabs Live video, Playback, Local Settings, Basic Settings, Advanced Settings, System, Maintenance, (fig. B.3).

ELVI	ES-NeoTek Net	worl	k Camera					💄 admin	🕒 Выход
e): He	олвис Olek		Основные на	стройки >> Вид	leo				
-	Живое Видео	^	Первый поток	Второй поток	Третий поток				
	Архив				Видеокодек :	H.264 V			
	Local Settings				Разрешение :	1080P(1920*1080)			
					Фреймрейт:	25 🗸	fps		
0	Основные				Битрейт :	6144 🗸	kbps		
	Видео				Smart Stream :	Выключить			
	Изображение	1.			Тип битрейта :	CBR 🗸			
	Аудио				Профиль h.264 :	Main			
	Сеть				Интервал I-frame :	50	кадр (1-120)		
	Дата и время					Сохранить			
o	Дополнительные								
	Система								

Figure B.3 - Basic settings Tab

Each tab contains additional tabs with settings. The active additional tab is marked with a dot, the inactive one - in white. To save the settings made in each additional tab, click the Save button (Fig. B.4).

Текущее системное время		
Дата:	08/05/2019	
Время: 11:22:59		
Установить системное время		
Часовой пояс:	3 Russia (Moscow)	
Переход на летнее время:	Отключить 🗸	
Синхронизировать с NTP: Интервал:		
• Синхронизировать со временем П	К	
Дата:	08/05/2019	
Время:	11:22:59	
О NTP сервер		
○ Вручную		
Сохр	анить	

Figure B.4 - Saving settings

B.2.1 Live Video

The Live video tab contains buttons for moving to the choice of stream, transmission protocol and video quality.

The Live video tab is shown in Figure B.5.



Figure B.5 - Live video tab

Table B.1 - Buttons of the Basic settings tab

Button	Description
Primary Stream	Choose the Stream (Primary/Secondary/Tertiary) to show on the current video window.
HTTP 🔻	Selecting the transmission protocol: TCP: More reliable connection; UDP: More instantaneous connection, but if you cannot get the live view successfully, please turn into TCP connection; HTTP: Faster and safer connection especially in Internet environment.
Fluency	 Least Delay: The most instantaneous mode; Balanced: A balanced mode between Least Delay and Best Fluency, maintains the fluency while keeps an acceptable delay; Best Fluency: The most fluent mode;
AUTO	Click to display images at a window size.
E ⁷ 100%	Click to display images at a real size.
K N K	Click to display images at full-screen.
۲	When recording, the icon will turn red.
	When an alarm of Smart Event was triggered, the icon appears.
×	When an alarm of Motion Detection was triggered, the icon appears.
查	Except for the two kinds of alarms above, when other alarms were trig- gered, the icon appears.
or Configuration	Click to access the configuration page.
	Stop
()	Audio On/Off
Ō	Snapshot
	Start/Stop Recording
Ð	Digital Zoom
Ŷ	Turn on / off the loudspeaker
ţļţ	Video control (zoom, focus, brightness, contrast, sharpness, noise reduc- tion)
	Navigation buttons are used to control the direction of the PTZ camera. The rotation button is used for automatic reversal.

S5	To select camera rotation speed from 1 to 10
*	Zoom out / zoom in
	Adjust focus of the lens
© [I] ©	Auxiliary Focus and Lens Initialization, automatic iris control
*	Turn on / off the flashlight
0	 3D positioning function: Left-click on the image, the corresponding position will be moved to the center of the image. Hold down the left mouse button and drag the mouse to the lower right or upper right corner of the image, you can see a blue rectangle. The corresponding position will be moved to the center of the image and enlarged. Hold down the left mouse button and drag the mouse to the lower left or upper left corner, you can see a blue rectangle. The corresponding position will be moved to the center of the image and enlarged. Hold down the left mouse button and drag the mouse to the lower left or upper left corner, you can see a blue rectangle. The corresponding position will be moved to the center of the image and enlarged. The larger the rectangle, the smaller the increase / decrease Turn on patroling.
2	Turn on/off Auto Return.
۲	Turn on the tracking. The auto return point will be the currently displayed image.
Q	Preset. This is the predefined position of the image. You can press the call button from the preset list to quickly jump to the desired image position.
¢	Patrol. It is a memorable series of preset functions. It can be configured and recalled in the patrol settings list. You can configure up to 8 patrols, and each patrol can be configured with 48 presets. Before configuring a patrol, make sure to set the presets you want to add to the patrol.
¢	Pattern. It is a memorized series of pan, tilt, zoom and preset functions. It can be called in the template settings interface.

B.2.2 Playback

The Playback tab contains buttons for moving to the choice of stream, transmission protocol and video quality.

The Playback tab is shown in Figure B.6.



Figure B.6 - The Playback tab

Description of the Playback tab is presented in Table B.2.

Table B.2 - Bu	ttons of the	Playback tab
----------------	--------------	--------------

Button	Description
•	Enable recording playback
	Disable playing a recording
<	Backwind
•	Skip forward
11 0	Turn on / off sound
2019-05-13	Select recording date
00 00 00	Select recording time
Ō	Take a screenshot
	Start recording video
<u>@</u>	Zoom
К 7 К 3	Stretch to full screen

Б.2.3 Local Settings Tab/ Local path

The Local path tab contains buttons to go to the choice of stream, transmission protocol and video quality.

The Local path tab is shown in Figure B.7.

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E	LVE	ES-NeoTek N	etwoi	rk Camera			💄 admin 🛛 🕞 B		
Γ	e: He	eolek	Т	Локальный путь					
		Онлайн	^						
		Аруир			Настройки онлайн просмотра				
		Архив			Длина записи:	30 мин.			
	•	Локальный путь	Ŀ		Путь для записи:	C:\VMS\+-1\MS_Record\ O5:op			
	٥	Основные	Ŀ		Путь для снимка:	C:\VMS\+-1\MAGE-MANU 0630p Открыть			
	o®	Дополнительные			Настройки воспроизведения				
		Оповещение Хранилище				Путь для записи архива:	С:\VMS\+-1\Playback\MS_I Обзор Открыть		
		Безопасность	Ŀ		Путь для снимка архива:	С:\VMS\+-1\Playback\IMAC обзор Открыть			
		ын Видео Аналитика				Сохранить			
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Description of the Local path tab is presented in Table B.43.

Button	Description
Record length	Select the size of the saved video in minutes (5, 10, 15, 20, 25, 30)
Recording path	Specifying the path to save video files
Shot path	Specifying the path to save screenshots
Archive recording path	Specifying the Playback Path for Saved Video Files
Archive snapshot path	Specifying the Playback Path of Saved Images
Save	After each change, press to save the settings.

Б.2.4 Basic Settings Tab

Basic Settings Tab contains buttons to navigate to the video, audio, network, date and time settings that you want to change.

The Basic settings tab is shown in Figure B.8.

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es Hē	olek		Основные на	стройки >> Вид	leo			
4	Онлайн	^	Первый поток	Второй поток	Третий поток			
	Архив	L			Видеокодек :	H.264	v	
					Разрешение :	[1080P(1920*1080)	~	
	Локальный путь				Фреймрейт:	25	✓] fps	
ø	Основные				Битрейт:	4096	✓ kbps	
					Видео Аналитика :	Включить	v	
	Видео				Уровень :	<u>5</u>	-	
	Изображение				Тип битрейта :	CBR	V	
	Аудио				Профиль h.264 :	Main	~	
	Сеть				Интервал I-frame :	50	кадр (1-120)	
	Дата и время							
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	Custous							



Description of the System tab is presented in Table B.4.

Table B 4 -	Buttons	of the	Basic	settings	tah
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Button	Description
Video	Video stream control, enable / disable, resolution, etc.
Image	Controls day / night mode, white balance, IR balance, stabilization, on-screen text font, etc.
Audio	Control of audio I / O, gain, sample rate, audio file manager, etc.
Network	Network settings management
Date&Time	Setting date and time, NTP servers.

B.2.4.1 Video

Stream parameters can be set in this module, adapting to different network environments and demands.

The Video tab is shown in Figures B8 and B.9.

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			4			Разрешение: Фреймрейт:	1920*1080	✓ fps		
	ø	Основные				Битрейт:	1024	✓ kbps		
		Видео				Smart Stream:	Выключить	~		
		Изображение				Тип битрейта:	CBR	~		
		Аудио				Профиль h.264:	Main	~		
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Figure B.9 - Video tab

Description of the Video tab is presented in Table B.4.1

Table B.4.1 -	Buttons	of the	Video	tab
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Button	Description
Turn on/off:	Turn on / off stream. Refers to the second and third stream.
Video Codec:	Video codec selection (H.264, H.265, MJPEG)
Frame Size:	Primary Stream: 5M(2592*1944), 5M(2560*1920), 5M(2560*1440), 4M(2592*1520), 3M(2304*1296), 3M(2048*1536), 1080P(1920*1080), 2M(1600 *1200), 1.3M(1280*960), 720P(1280*720), D1(704*576). Secondary Stream 704*576, 640*480, 640*360, 352*288, 320*240, 320*192, 320*176.
	Tertiary Stream, if available: 1920*1080, 1280*720, 704*576, 640*480, 640*360, 352*288, 320*240, 320*192, 320*176
Фреймрейт:	To select the number of frames to be changed in 1 second. The lower the frame rate, the more the video image "slows down" during broadcast.
Bit Rate:	Transmitting bits of data per second, this item is optional only if you se- lect the H.265/H.264
Smart Stream:	Smart Stream mode remarkably reduces the bandwidth and the data stor- age requirements for network cameras while ensuring the high quality of images, and it is a 10-level adjustable codec. It is optional to turn On/Off Smart Stream mode. Level: Level 1~10 are available to meet your need.
Тип битрейта:	The video compression setting includes the choice of the bit rate type - Variable VBR or Constant CBR.
Image Quality	Low/Medium/High are available, this item is optional only if you select VBR.

JPEG Quality	Low/Medium/High/Higher are available, this item is optional only if you selected the MJPEG
Profile	The option is for H.264, Main/High/Base can be selected according to your needs.
I-frame Interval	The number of "key" frames that contain macroblocks, compressed inde- pendently of other frames from 1 to 120 in H.264, H.265 video codecs

Б.2.4.2 Ітаде

The Image tab contains buttons for accessing on-screen display settings, day / night settings, white balance control, image stabilization, and other display settings that you need to change.

The Image tab is shown in Figure B10.



Figure B.10 - The Image tab

Description of the Image tab is presented in Table B.4.2

Table B.4.2 - Buttons of the Image tab

Tab	Button	Description
Image	Power Line Frequency	60Hz flicker for NTSC and 50Hz flicker for PAL.
	Day/Night Mode	There are several parameters such as Exposure Level, Maxi- mum Exposure Time and IR-CUT Interval, etc, associated with this mode Night Mode : Shown in live view based on Night Mode set- tings Day Mode : Shown in live view based on Day Mode settings Auto Mode : Shown in live view based on environment, set the sensitivity for switching Day Mode to Night Mode, or Night Mode to Day Mode

Tab	Button	Description
		Customize : Shown in live view based on your own settings' time to start/end Night Mode
	Current illumination	The value of the light sensor, allows you to navigate when set- ting the automatic mode of the Day-Night Threshold and Night- Day Threshold
	Smart IR Mode	With the combination of the High Beam and Low Beam, The IR LEDs technology has been upgraded to provide better image clarity and quality regardless of the object distance. Also, the Low Beam and High Beam's brightness can be adjusted manu- ally or automatically on the basis of the Zoom ratio. Moreover, with the IR anti-reflection panel, the infrared light transmit- tance is highly increased. Support to set the strength of the IR to Auto Mode or Custom- ize to achieve the best effect.
	IR Strength Value	IR illumination level of near and far range
	Level of the flashlight bright-ness	Controls the brightness level of the flashlight.
	Outdoor/Indoor Mode	Select indoor or outdoor mode. Allows you to select the appropriate exposure level, maximum exposure time and IR-CUT interval.
	Corridor Mode	There are three options available, you can select one to meet your need Off: Keep the image in normal direction Clockwise 90°: Rotate the image by 90° clockwise Anticlockwise 90°: Rotate the image by 90° anticlockwise
	Image Rotation	There are four options available, you can select one to meet your need Off: Keep the image in normal direction Rotating 180°: Upside down the image Flip Horizontal: Flip the image horizontally Flip vertical: Flip the image vertically
	Lens distort correct	For the Fisheye series only, turn on/off the distortion removal from the fisheye lens.
	Smoked Dome Cover	This function is only for Dome-series. If Dome is equipped with a Smoked Dome Cover, enable this function to display a normal image.
Enhancement	IR Balance Mode	There is an option to turn On/Off the IR LED. IR Balance Mode would avoid the problem of overexposure and darkness.
	White Balance	To restore white objects, removed color distortion caused by the light of the environment Auto White Balance: This option will automatically enable the White Balance function

Tab	Button	Description
		Manual White Balance: Set Red Gain Level and Blue Gain
		Incandescent Lamp: Select this option when light is similar with incandescent lamp
		Warm Light Lamp: Select this option when light is similar with warm light lamp
		Natural Light : Select this option when there is no other light but natural light
		Fluorescent Lamp: Select this option when light is similar with Fluorescent Lamp
		Schedule mode: Select this option that you can customize the schedule to enable/disable above modes
	Defog Mode	Better image effect in foggy weather
	Reduce Motion Blur	Enable this function to reduce the motion blur of objects effec- tively
	Exposure Mode	Allows you to set the exposure time:
		Auto Mode: The camera will adjust the brightness according to the light environment automatically:
		Manual Mode: The camera will adjust the brightness accord-
		ing to the value you set, you can set the exposure time from $1\sim 1/100000$ s, the higher the value is, the brighter the image is;
		Schedule Mode: You can customize the schedule to ena- ble/disable Auto
		Mode and Manual Mode.
	BLC Region	brighter and clearer, but bright areas become even brighter. Off: Calculate the full range of view and offer appropriate
		light compensation Customize: This option enables you to customize inclusive or exclusive region manually
		Centre: This option will automatically add an inclusive re- gion in the middle of the window and give the necessary light compensation
	Wide Dynamic Range	This function which can capture and display both bright and dark areas in the same frame enables details of objects in both bright and dark areas to be visible. Off: Disable WDR function
		On: Enable the WDR, there are Low/High/Auto three levels
		Customize: Customize the schedule to enable/disable the WDR function and set the levels with Low/High/Auto
	Wide Dynamic Level	Set WDR with Low/High/Auto level
	Anti-flicker Level	Reduce flickers that appear on screen in some lighting condi- tions
	High Light Compensation	Off: Disable HLC function General Mode: Enable the general mode of HLC, and there is a setting for HLC Level

Tab	Button	Description
		Enhanced Mode: Enable the enhanced mode of HLC, and there is a setting for HLC Level
	HLC Level	Use the slider to select the HLC level. When using cameras with the license plate recognition function and the HLC function for fixing the license plate, the IR illumi- nation must be turned off or reduced. The plates are covered with reflective paint, the backlight will reflect from the license plate in the direction of the camera, and the HLC will mask the plate.
	Day Enhancement Mode	BLC/WDR/HLC are available.
	Night Enhancement Mode	BLC/WDR/HLC are available.
	Schedule Setting	Customize the schedule to enable/disable BLC/WDR/HLC mode.
Day/Night	Exposure Level	Level 0~10 are available to meet your need
Mode	Minimum Shutter	Set the minimum Shutter to 1~1/100000s
	Maximum Shutter	Set the maximum Shutter to 1~1/100000s
	Limit Gain Level	Set the Gain level from 1 to 100
	IR-CUT Latency	The interval time of switching one mode to another
	IR-CUT	Turn on or turn off IR-CUT
	IR LED	Turn on or turn off IR-LED
	Color Mode	Select B/W or Color mode under Day/Night mode
OSD	Video Stream	Enable to set OSD for primary stream/secondary/ tertiary stream
	Font Size	Smallest/Small/Medium/Large/Largest/Auto are available for title and date
	Font Color	Enable to set different color for title and date
	Show Video Title	Turn on / off Video Title
	Video Title	Customize the OSD content
	Text Position	OSD display position on the image
	Добавить дату	Включить/выключить отображение даты
	Date Position	Date display position on the image
	Date Format	The format of date
	Copy to Other Streams	Copy the settings to other streams

Tab	Button	Description
Privacy Mask	Enable	Check the checkbox to enable the Privacy Mask function
	Туре	Select the color to use for the privacy areas
	Clear All	Clear all areas you drew before.
ROI	Enable	Turn on / off the region of interest, highlight the area that is of greatest interest with the cursor to improve the quality of this particular area, which allows you to save traffic, since the areas not selected will go in the most compressed form. You can select up to 3 areas.
	Video Stream	Choose the Video Stream.
	Clear All	Remove all ROI.

Б.2.4.3 Audio

The Audio tab contains buttons to go to the audio settings that you want to change.



The Audio tab is shown in Figure B11.

Figure B.11 - The "Audio" tab

Description of the Audio tab is presented in Table B.4.3

Table B.4.3 -	Buttons of	of the	Audio	tab
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Tab	Button	Description	
Audio	Enable Audio	Turn on/off the Audio	
	Audio Mode	Selecting audio device: Microphone only / Speaker only / Microphone and speaker	
	Denoise	Turn on / off noise reduction. When enabled, allows you to filter out noise.	

Tab	Button	Description
	Encoding	Select audio codec: G711-ULaw/G711-ALaw/AAC LC
	Sample Rate	Select Audio Bit Rate: 8кГц/16кГц
	Input Gain	Microphone gain from 0 to 100
Alarm Level		Alarm will be triggered if voice alarm is enabled and input gained
		volume is higher than the alarm level, 1-100
	Auto Gain Con- trol	Speaker gain.
	Oitput Volume	Speaker volume.
Audio File Manager	Audio File Stor- age Type	Choosing a storage location for audio files: Flash: Internal camera memory SD: On the camera's SD flash card.
	Audio File Name	Audio File Name
	Audio File	Link to the folder with audio files from where you want to download files.

Б.2.4.4 Network

The Network tab contains buttons to go to the network settings that need to be changed.

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The Network tab is shown in Figure B12.

Figure B.12 - Network tab

Description of the Network tab is presented in Table B.4.4

Tab	Button	Description	
TCP/IP	Get IPv4 address automatically	Get an IP address from a DHCP server automatically	
	Use fixed IPv4 adress	Use fixed IPv4 adress	
	IP adress	Specify static IPv4 address	
	IPv4 Subnet Mask	Specify the subnet mask of the camera	
	IPv4 Default Gateway	Specify default router	
	Preferred DNS Server	Specify default DNS server	
	IPv6 Mode	Selecting the IPv6 type: Manual / SLAAC / DHCPv6	
	IPv6 Adress	Specify static IPv4 address	
	IPv6 Prefix	Specify IPv6 Prefix Length	
	IPv6 Default Gateway	Specify default IPv6 router	
HTTP	HTTP Enable	Start or stop using HTTP	
	HTTP Port	Web GUI login port, the default is 80, the same with ONVIF port.	
	HTTPS Enable	Start or stop using HTTPS	
	HTTPS Port	Web GUI login port via HTTPS, the default is 443	
	Sertificate	Allows you to reset the certificate to the default.	
	Atributes	Information about the recipient of the certificate, the issuer, the validity period.	
	Installation Type	Select a certificate, specify the data in the window that opens: Create Certificate: Generate a self-signed certificate Install from file: Install ready-made certificate Create Certificate Request: Create Certificate Request	
RTSP	RTSP Port	The port of RTSP, the default is 554. To get detailed information and type of a line, click $\langle 0 \rangle$	
	Playback Port	The port of playback, the default is 555. To get detailed information and type of a line, click $\langle 0 \rangle$	
	RTP Packet	Choice between quality and speed	

Table B.4.4 - Buttons of the Network tab

Tab	Button	Description	
	Multicast Group Address	IPv4 адрес для мультивещания. По умолчанию 239.6.6.6	
	QoS DSCP(0~63)	Channel priority level - from 0 to 63, encoding priority (the higher the number, the more important the traffic)	
UPnP	Enable UPnP	Enable / Disable UPnP protocol for easy implementation	
	Enable Port Mapping	Check the box to enable port mapping	
	Name	The name of the device detected online can be edited	
	Туре	Select automatically and get the corresponding HTTP and RTSP port or set the port settings manually	
	HTTP	Specify external and internal ports, check the status.	
	RTSP	Specify external and internal ports, check the status.	
	Playback	Specify external and internal ports, check the status.	
DDNS	Enable DDNS	Enable / disable dynamic DNS. It is recommended to enable and use UPnP ports specifically for use with DDNS	
	Provider	Get support from DDNS provider: ddns.milesight.com, freedns.afraid.org, dyndns.org, www.no-ip.com, www.zoneedit.com. You can also customize the provider for DDNS.	
	External HTTP Port	Specify default port 80	
	External RTSP Port	Specify default port 554	
	External Play- back Port	Specify default port 555	
Email	Recipient Email Address1	Email address to receive video files	
	Recipient Email Address2		
	User Name	The sender's name. It is usually the same as the account name	
	Sender Email Address	Email address to send video files attached emails	
	Password	The password of the sender	
	SMTP Server	The SMTP server IP address or host name(e.g. smtp.gmail.com)	
	SMTP Port	The default TCP/IP port for SMTP is 25(not secured). For SSL/TLS port, it depends on the mail you use	

Tab	Button	Description
	Encryption	No encryption / SSL / TLS
FTP	Server Address	Specify the FTP server address to send alarm video to FTP server,
	Server Port	Specify the port of the FTP server.
	User Name	User name used to log in to the FTP sever
	Password	User password
	Storage Path	Storage Path where video and image will be uploaded to the FTP server.
		Four FTP storage path types are available, including Root Di- rectory, Parent Directory, Child Directory and Customize
	Alarm Action File Name	Choose the default (YYYY-MM-DD) or customize the alarm action file name.
	Timing Snap- shot File Name	File Name semantics: YYYY-MM-DD/
		MM-DD-YYYY/ DD-MM-YYYY/ Customize
VLAN	VLAN Enable	Enable / disable virtual network
	VLAN ID	Network name from 1 to 4096
	VLAN IP	IPv4 virtual network address
	VLAN Netmask	Virtual network mask
	VLAN Gateway	Virtual network gateway address
PPPoE	Enable PPPoE	Enable / disable secure point-to-point protocol for modem con- nection.
	Dynamic IP	IPv4 address
	User name	Enter Login
	Password	Enter Password
	Confirm Pass- word	Confirm the password
SNMP	SNMP V1 Enable	Enable / Disable SNMP protocol without security support
	SNMP V2c Enable	Enable / Disable SNMP with Access Password
	SNMP V3 Enable	Enable Disable SNMP with HTTPS Encryption

Tab	Button	Description
	Write Community	Password for recording. "public" – as a default - R / O rights, it is recommended to change the password immediately.
	Read Community	Read password. "private" – as a default - R / W rights, it is rec- ommended to change the password immediately.
	Level of Secu- rity	auth, priv: Authenticated and encryptedauth, no priv: Authenticate without encryptionno auth, no priv: No authentication and no encryption.
	SNMP Port	SNMP port, default 161
802.1x	Enable 802.1x	Enable / Disable 802.1x
	Protocol	EAP-MD-5 (message digest) challenge is a type of EAP au- thentication that provides basic EAP support
	Eapol Version	Choosing a protocol that determines how you encapsulate
	User Name	Login
	Password	Password
	Confirm Pass- word	Confirm the password

Б.2.4.5 Date&Time

The Date&Time tab contains buttons for navigating to the date and time settings that you want to change.

The Date&Time tab is shown in Figure B13.

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🖬 Архив			
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• Основные настройки			
Видео			
Изображение			
Аудию			
Cen		Burnstein autorit	
дата и время		Pessika avutaro.	
Дополнительные		Astrono Branc	
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Ооспуживание		Частота дискретизации: 1807ц 🗸	
		Входное усиление:	
		Уровень, срабатывания треволх:	
		Аудио Выход	
		Авто-контроль усиления.	
		Уровень выходного сигнала:	
		Созранити	

Figure B.13 - Date and time Tab

Description of the Date&Time tab is presented in Table B.4.5

Table B.4.5 - Buttons of the Date&Time tab

Tab	Button	Description
Date&Time	Date	Current date
	Time	Current system time
	Time Zone	Choose a time zone for your location
	Daylight Saving Time	Enable the daylight saving time/Auto
	NTP Sync	Synchronization of the system time with the specified interval from 1 hour to 30 days.
	Synchronize with computer time	Synchronize the time with your computer
	NTP server	Synchronize the time with NTP server
	Manual	Set the system time manually

Б.2.5 Advanced Settings

The Advanced Settings tab contains buttons Alarm, Storage, Security, SIP, Video Content Analysis, PTZ, Logs.

Б.2.5.1 Alarm

The Alarm tab is shown in Figure B.14.



Description of the Alarm tab is presented in Table B.5.1

Tab	Button	Description
Motion Detection	Enable Motion Detection	Check the box to enable motion detection
	Onvif Motion	Select a mode - standard or compatibility.
	ActiveCells Mode	If you are using third-party motion detection software, set the compatibility mode.
	Set Motion Re- gion	Indicate the area (s) of motion detection on the image using the cursor.
	Select All	Click the button, the motion in the area will be detected
	Clear All	Click the button, the area drawn before will be removed
	Sensitivity	Sensitivity level, 1~10
	Schedule Set- tings	Indicate operating time.
	Alarm Action	Selecting a notification when an alarm is triggered.
	Save into SD card:	Select file format: AVI, JPG or both
	Save Into Storage	Select file format: AVI, JPG or both
	Upload Via FTP	Select file format: AVI, JPG or both
	Upload Via SMTP	File format: JPG
	External Output	If the camera equips with External Output, you can enable the action after configuring the trigger duration
	Play Audio	If the camera equips with Speaker, you can enable the action after configuring the audio speaker
	Alarm to SIP Phone	Support to call the SIP phone after enable the SIP function
	HTTP Notification	Send HTTP event notification. Specify the URL, username and password, example: http://ip:8601/Interface/Cameras/Mo-tionDetection/Notify?Camera=CameraName
		HTTP Name: admin (логин камеры)
	T	HTTP Password: en123456 (пароль камеры)
	Fiasniight	series camera only.
	PTZ movement	When a motion detector is triggered, allows the camera to fol- low the object. Disables on-touch patrol. For PTZ series camera only
	Alarm actions	Selecting an action when alarm is triggered.

Table B.5.1 - Buttons of the Alarm tab

Tab	Button	Description
	Alarm recording	Select video recording time interval from 5 to 30 seconds
	Pre-recording	Select the video recording time interval preceding the event from 0 to 10 seconds.
	Snapshot:	Select the number of snapshots for an alarm event
	Snapshot Inter- val:	Choose the time interval between shots.
	External Output Action Time	Set the time interval for the alarm output from 1 to 999 seconds.
	Audio Action Settings:	Set the audio schedule to trigger different audio files and ac- tion times in different time, which is corresponded to alarm action.
	Play Audio In- terval	Auto / 10 seconds / 30 seconds / 1 minute / 5 minutes / 10 minutes
	Flashlight mode	Flash: The white LED will flash continuously when an alarm event occurs; Normal: The white LED will be on steadily when an alarm event occurs.
	Blinking interval	Flash duration: Flash mode - from 1 second to 10 seconds; Normal mode - from 1 second to 60 seconds.
	Effective flashlight mode	Normal / Lighting / Manual
	Proportional zoom speed	Zoom speed selection
	PTZ Motion Recovery Time	Duration of one alarm. Should be no less than the flashlight's operating time.
Audio Alarm	Enable Audio Alarm	Check the box to enable.
	Schedule settings	Indicate operating time.
	Alarm Action	Selecting a notification when an alarm is triggered.
	Save into SD card:	Select file format: AVI, JPG or both
	Save Into NAS	Select file format: AVI, JPG or both
	Upload Via FTP	Select file format: AVI, JPG or both
	Upload Via SMTP	File format: JPG
	External Output	If the camera equips with External Output, you can enable the action after configuring the trigger duration
	Play Audio	If the camera equips with Speaker, you can enable the action after configuring the audio speaker
	Alarm to SIP Phone	Support to call the SIP phone after enable the SIP function

Tab	Button	Description
	HTTP Notification	Send HTTP event notification. Specify the URL, username and password, example: http://ip:8601/Interface/Cameras/Mo- tionDetection/Notify?Camera=CameraName HTTP Name: admin (логин камеры)
		HTTP Password: en123456 (пароль камеры)
	Flashlight	Turns on the flashlight when an alarm event occurs. For PTZ series camera only.
	PTZ movement	When a motion detector is triggered, allows the camera to fol- low the object. Disables on-touch patrol. For PTZ series camera only
	Alarm actions	Selecting an action when alarm is triggered.
	Snapshot:	Select the number of snapshots for an alarm event
	Snapshot Inter- val:	Choose the time interval between shots.
	External Output Action Time	Set the time interval for the alarm output from 1 to 999 seconds.
	Audio Action Settings:	Set the audio schedule to trigger different audio files and action times in different time, which is corresponded to alarm action.
	Play Audio In- terval	Auto / 10 seconds / 30 seconds / 1 minute / 5 minutes / 10 minutes
External Input	Enable External Input	Enable Alarm Input. Select Normal, High or Low. You can also observe the current state of the input.
	Schedule Set- tings	Indicate operating time.
	Alarm Action	Selecting a notification when an alarm is triggered.
	Save into SD card:	Select file format: AVI, JPG or both
	Save Into NAS	Select file format: AVI, JPG or both
	Upload Via FTP	Select file format: AVI, JPG or both
	Upload Via SMTP	File format: JPG
	External Output	If the camera equips with External Output, you can enable the action after configuring the trigger duration
	Play Audio	If the camera equips with Speaker, you can enable the action after configuring the audio speaker
	Alarm to SIP Phone	Support to call the SIP phone after enable the SIP function
	HTTP Notification	Send HTTP event notification. Specify the URL, username and password, example: http://ip:8601/Interface/Cameras/Mo- tionDetection/Notify?Camera=CameraName HTTP Name: admin (логин камеры) HTTP Password: en123456 (цароць камеры)
	Alarm actions	Selecting an action when alarm is triggered.

Tab	Button	Description													
	Alarm recording	Select video recording time interval from 5 to 30 seconds													
	Pre-recording	Select the video recording time interval preceding the event from 0 to 10 seconds.													
	Snapshot:	Select the number of snapshots for an alarm event													
	Snapshot Inter- val:	Choose the time interval between shots.													
	External Output Action Time	Set the time interval for the alarm output from 1 to 999 seconds.													
	Audio Action Settings:	Set the audio schedule to trigger different audio files and action times in different time, which is corresponded to alarm action.													
	Play Audio In- terval	Auto / 10 seconds / 30 seconds / 1 minute / 5 minutes / 10 minutes													
Exception	Alarm Type	Alarm type selection: Network Disconnected, IP Address Con- flict													
	Enable Network Disconnected Alarm	Select enable / disable alarm													
	Enable IP Conflict Alarm	Select enable / disable alarm													
	Save into SD card:	Select file format: AVI, JPG or both													
	External Output	Setting the alarm output when an event occurs, select the nor- mal state, you can also observe the output state in the window													
	Play Audio	If the camera equips with Speaker, you can enable the action after configuring the audio speaker													
	Alarm actions	Selecting an action when alarm is triggered.													
	Alarm recording	Select video recording time interval from 5 to 30 seconds													
	Pre-recording	Select the video recording time interval preceding the event from 0 to 10 seconds.													
	Snapshot:	Select the number of snapshots for an alarm event													
	Snapshot Inter- val:	Choose the time interval between shots.													
	External Output Action Time	Set the time interval for the alarm output from 1 to 999 seconds.													
	Audio Action Settings:	Set the audio schedule to trigger different audio files and action times in different time, which is corresponded to alarm action.													
	Play Audio In- terval	Auto / 10 seconds / 30 seconds / 1 minute / 5 minutes / 10 minutes													
External Input	Normal Status	Select the default alarm output state: Open / Grounded													
	Current Status	Displays the current output position													
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VE	ES-NeoTek Netw	ork	Camera											💄 admin 🛛 🖪	• Выход
He	лвис Olēk		Дополнительные нас	тройки >> Хра	нилище										
	Онлайн	1	Управление хранилищем	Настройки за	писи Ha	астройки снимков	открыть								
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tar	Локальный путь					Всего места на ка на карте: <mark>ОМ</mark>	врте:0М Свобол	но места на карти	е:0М Испол	пьзовано места					
Φ	Основные настройки						Пожалуйс	та, вставьте SD-и	сарту						
°	Дополнительные					Настройки NAS									
	Оповещение					Адрес сервера:									
	Хранилище					Путь к файлам:									
	Безопасность					Тип ФС:		NFS	~						
	SIP							0.0							
	Видео Аналитика							дооланть							
	Журнал			HDD Адрес	Путьк Удал			Имя	Пароль		едактировать	Формат	Удалить		
ų.	Система			1 172.16.254.1 2 10.1.55.137	Infs YE	ES NES		videouser		Офлайн Форматировано	×		×		
Ô	Обслуживание											-			

The Storage tab is shown in Figure B.15.

Figure B.14 - The Storage tab

Description of the Storage tab is presented in Table B.5.2

Table B.5.2 - Buttons of the Storage tab

Tab	Button	Description
Storage Management	SD Card Set- tings	SD card storage management, information about data storage device.
	Format	Format SD card, the files in SD card will be removed
	Mount	Mount/Dismount SD card
	Delete	Enable cyclic storage, when the free disk space reach at a cer- tain value, it will automatically delete the files at certain per- centage according to your settings
	NAS Settings	The network disk should be available within the network and properly configured to store the recorded files, etc. No more than 5 NAS servers can be connected to one camera.
	Server Address	IP address of NAS server
	File Path	Input the NAS file path, e.g. «\Video»
	Mounting Type	NFS and SMB/CIFS are available
	User Name	SMB/CIFS server login
	Password	SMB/CIFS server password
Record Settings	Enable Recycle Storage	Enable/Disable Recycle Storage, if you enable this option, it will delete the files when the free disk space reach a certain value.
	Schedule Settings	Indicate operating time.

Tab	Button	Description				
Snapshot Settings	Enable Timing Snapshot	Enable photographing at the specified time interval				
	Interval	Milliseconds / seconds / minutes / hours / days				
	Save into Stor- age	When NAS server is specified, it allows you to save on the server.				
	File Name	File name selection: Date and time / Enter the name manually. Photo format JPG. If Date & Time is selected, each picture will be unique. If selected manually, the file will be overwritten.				
	Upload Via FTP	When FTP server is specified, it allows you to save on the server.				
	Upload Via SMTP	When mail is configured, it allows you to send to the specified email address.				
	Schedule Settings	Indicate operating time.				
Open	Files will be displayed on this page if you have configured the option to save to SD card or NAS server. You can set a schedule every day for video recording and save the video files to a specified location.					
	(Note: files are visible after the SD card is inserted. Do not insert or pull out the SD card when the power is on.)					
	Videos are sorted The files will be d and delete files. Y for example, ftp: // word are the same	by date. Select the file type and start / end time to search for files. displayed under the corresponding date, from here you can copy fou will be able to view the archives in SD card or on ftp server, / username: password@192.168.5.190 (user, username and pass- e as the camera account).				

Б.2.5.3 Security

The Security tab is shown in Figure B.16.

ELVEES-	http://10.1.55.127/inc NeoTek Network Ca × 3	dex.html	etwork Came			- Ç	Поиск	- o × ₽- û☆‡©
ELVEE	ES-NeoTek Netw	ork Camera						💄 admin 🕞 Выход
ea Hea	neuc olek	Дополнительн	ные настройки >	> Безопасность				
	Онлайн	Пользователь	Список доступа	Шифрование сеансов				
	Архив				Просмотр без авторизации Разрешить просмотр без	×		
0	Локальный путь Основные настройки				авторизации. Секретный вопрос			
e .	Дополнительные				Секретный вопрос:	Редактироваты		
-	Оповещение Хранилище Безопасность SIP				Add Edit Delete ID Имя пользов 1 admin 2 Tehnik	ателя Уровень доступа Администратор Оператор		
	Видео Аналитика Журнал				5 Оптала	паолюдатель		
	Система				Уровень пользователя: Имя пользователя:	Оператор		
۵	Обслуживание				Пароль: Подтвердить: Вы цереро осбано			
					Сохранить			

Figure B.16 - Security Tab

Description of the Security tab is presented in Table B.5.3

Table B.5.3 - Buttons of the Security tab

Tab	Button	Description
User	Allow anonymous viewing	Check the box to enable visit from whom doesn't have ac- count of the device
	Security Question	Click Edit button to set three security questions for your cam- era. In case that you forget the password, you can click Forget Password button on login page to reset the password by an- swering three security questions correctly.
	Account Management	Click Add button, it will display Account Management page. You can add an account to the camera by entering Admin Password, User Level, User Name, New Password, Confirm, and edit user privilege by clicking . The added account will be displayed in the account list. Admin Password: You can add an account only after you enter
		the correct admin password User Level: Set the privilege for the account. Administrator / Operator / Observer
		User Name: Input user name for creating an account. Password: Input password for the account.
		Confirm: Confirm the password
	Administrator	Administrator can manage all device configurations including: change user password, add or remove users (the default user "admin" cannot be deleted)
	Operator	Operator can manage all configuration pages except user page
	Observer	Observer cannot change the camera settings.
Access List	Maximum num- ber of concurrent streaming	Select the maximum number of concurrent streaming. Options include No Limit, 1~9
	IPv4 Access	Add: address, network and range.
	List	IP Address: Enter the address to access the device
	Enable Access List Filtering	Ability to access or restrict access for certain IP addresses
	Filter type	Allow / Deny
SSH	Enable SSH	Secure Shell (SSH) has many functions: it can replace Telnet and also provides a secure channel for FTP, POP, even for PPP.
	SSH Port	Specify SSH Port

Б.2.5.4 SIP

The Session Initiation Protocol (SIP) is a signaling communications protocol, widely used for controlling multimedia communication sessions such as voice and video calls over Internet Protocol (IP) networks. This page allows user to configure SIP related parameters. Cameras can be configured as SIP endpoint to call out when alarm triggered; or allow permitted number to call in to check the video if the video IP phone is used. There are two ways to get video through SIP, one is to dial the IP address directly, the other is account registration mode, the details are as follows:

Прямой режим IP:

IP Direct mode

Dial on the camera's IP address directly through SIP phone, so you can see the video.

(Note: SIP phone and the camera should in the same network segment).

Account registration mode

1) Before using the SIP, you need to register an account for the camera from the SIP server;

- 2) Register another user account for the SIP device from the same SIP server;
- 3) Call the camera User ID from the SIP device, you will get the video on the SIP device.

The SIP tab is shown in Figure B.17.

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ee He	олвис Olek	Т	Дополнителы	ные настройки >>	SIP		
Þ	Архив	^	Настройки SIP	Список вызовов	Белый список		
-	Локальный путь	1			Включить:		^
					SIP регистрация:	Включить	
ġ,	Основные				ID пользователя:	Elvees	
٥	Пополнительные				Имя пользователя:	sipclient	
9	дополнительные				Пароль:		
	Оповещение				Адрес сервера:	192.168.5.101	
	Хранилище				Порт сервера:	5060	
	Безопасность				Сетевой протокол:	UDP V	
	SIP				Видеопоток:	Второй поток	
	Видео Аналитика					[1800] C.	
	Журнал				Ограничение разговора:	Используйте 0 для снятия ограничения	
1	Система				Примечание.SIP также	поддерживает прямой вызов на IP.	
						Covosum	

σ×

Description of the SIP tab is presented in Table B.5.4

Tab	Button	Description
SIP Settings	Enable	Start / stop SIP protocol
	Register Mode	Select enable / disable. Enable means the mode of using the SIP protocol with the registration of the Account. Disable refers to Direct IP mode, use the IP address to call.
	User ID	SIP ID
	User Name	SIP account name
	Password	SIP account password
	Server Address	Server IP address
	Server Port	Server port
	Connection Pro- tocol	UDP/TCP
	Video Stream	Choose the video stream
	Max Call Dura- tion	The max call duration when use SIP . 0 - unlimited.
Alarm Phone List	Phone Type	Phone Number(Call by phone number) & Direct IP Call (Check to accept peer to peer IP call).
	To Phone Num- ber/ IP Address	Call by phone number or IP address.
	Remark Name	Display name.
	Duration	The time schedule to use SIP.
White List	Phone Type	Phone Number(Call by phone number) & Direct IP Call Enter phone number or IP address
	Enable White List Number Filter	When enabled, only the designated phone number or IP address can visit.

Table B.5.4 - Buttons of the SIP tab

B.2.5.5 VCA

VCA is used in a wide range of domains including entertainment, health-care, retail, automotive, transport, home automation, safety and security. VCA provides advanced, accurate smart video analysis for network cameras. It enhances the performance of network cameras through 8 detection modes: Region Entrance, Region Exiting, Advanced Motion Detection, Tamper Detection, Line Crossing, Loitering, Human Detection, People Counting.





8.2.1 Figure B.18 - VCA Tab

Description of the VCA tab is presented in Table B.5.5

B.2.5.5.1 Region Entrance

Region entrance helps to protect a special area from potential threat of suspicious person's or object's entrance. An alarm will be triggered when objects enter the selected regions by enabling region entrance.

Step1: Set entrance detection region;Step2: Set detection schedule;Step3: Set alarm action;Step4: Set alarm settings;Step5: Save settings.



B.2.5.5.2 Region Exiting

Region exiting is to make sure that any person or object won't exit the area that is being monitored. Any exit of people or objects will trigger an alarm.

Step1: Set entrance detection region;

- Step2: Set detection schedule;
- Step3: Set alarm action;
- Step4: Set alarm settings;
- Step5: Save settings.



B.2.5.5.3 Advanced Motion Detection

Different from traditional motion detection, Advanced Motion Detection can filter out "noise" such as lighting changes, natural tree movements, etc. When an object moves in the selected area, it will trigger alarm.



Step1: Set advanced motion detection region;

Step2: Set detecting sensitivity. When the sensitivity level is low, a little movement will not trigger an alarm;

Step3: Set detection schedule;

Step4: Set alarm action;

Step5: Set alarm settings;

Step6: Save settings.

B.2.5.5.4 Tamper Detection

Tamper Detection is used to detect possible tampering like the camera being unfocused, obstructed or moved. This functionality alerts security staff immediately when any above-mentioned actions occur.

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ELVE	ES-NeoTek N	etwo	rk Camera					💄 adr	nin 🕒 Выход
e	элвис eolek	T	Дополнительн	ные настройки >>	• Видео Аналитика				
	Онлайн	^	Вход в зону Детекция людей	Покидание зоны Подсчет людей	Расширенная детекция движения Настройки	Детекция саботажа	Пересечение линии	Пребывание	
-	Архив Локальный путь	L			Включить детекцию саботажа: Чувствительность:	✓	0		^
¢	Основные	L			Настройки расписания				
ď	Дополнительные Оповещение Хранилище Безопасность SIP				Box Buy Cpa Thus Cpa Thus Cor 00 01 02 00 04 00 06 07 08 09 10 11	1 12 13 14 15 16 17 18 19 2	0 21 22 23 24		
	Видео Аналитика Журнал Система	~			Сповещения по тревоге	тировать			~

Step1: Set detecting sensitivity. When the sensitivity level is low, a little movement will not trigger an alarm;

Step2: Set detection schedule;

Step3: Set alarm action;

Step4: Set alarm settings;

Step5: Save settings.

B.2.5.5.5 Line Crossing

An event will be triggered every time when the camera detects objects crossing a defined virtual line. Camera allows to set up to four lines at a time. There are three direction modes to choose for triggering alarm.

"A \rightarrow B" means when there is any object crossing the line from the "A" side to the

"B" side, the alarm will be triggered.

"B \rightarrow A" vice versa.

"A \leftrightarrow B" means that the alarm will be triggered when objects cross line from either side.



Step1: Select the number of detection lines, from 1 to 4;

- Step2: Draw detection lines;
- Step3: Set detection schedule;
- Step4: Set alarm action;
- Step5: Set alarm settings;
- Step6: Save settings.

B.2.5.5.6 Loitering

When objects are loitering in a defined area for a specific period of time, it would trigger an alarm.

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e Hi	элвис eolek	Дополнительные настройки >> Видео Аналитика	
101 ×	Онлайн	Вход в зону Покидание зоны Расширенная детекция даижения Детекция саботажа Пересечение линии Пребывание Дет Подсчет людей Настройки	гекция людей
8	Архив	Виличить детекцию пребывания:	^
50r	Локальный путь	Мин. время пробывания: 3 s	
٥	Основные настройки	Размер объекта: С	
ď	Дополнительные	Задайте зону детекции пребывания	
	Оповещение		
	Хранилище		
	Безопасность		
	Видео Аналитика		
	Журнал		
ų	Система		
Ø	Обслуживание	Before Res. Descrete as	

Step1: Mark the region of interest on the image;

Step2: Specify the minimum loitering time, from 3 to 300 seconds;

Step3: Specify the minimum size of a detected object;

Step4: Set detection schedule;

Step5: Set alarm action;

Step6: Set alarm settings;

Step7: Save settings.

B.2.5.5.7 Human Detection

Human detection is used for figuring out whether an object is a human or not. Once human detection is enabled, when there is an object appearing in the detecting area, an ID will show on the frame. If the object is a person, it will mark as "person". When the Show Tracks is enabled, the tracks of the moving object will show on the screen.



Step1: Set detection schedule;

Step2: Set alarm action;

Step3: Set alarm settings;

Step4: Save settings.

B.2.5.5.8 People Counting

People counting is able to count that how many people enter or exit during the setting period.



Step1: Set detection line;

Step2: Set detection schedule;

Step3: Set counting OSD;

Step4: Click "Edit" to check the counting logs, the data log can be exported to FTP/ SMTP/ SD Card/NAS server;

Step5: Set the alarm output for the threshold of the number of people: arrived, left, capacity, total;

Step6: Set alarm action;Step7: Set alarm settings;Step8: Save settings.

B.2.5.5.9 Settings

VCA tab settings Manager. Allows you to customize the minimum and maximum objects. Select a frame on the image or specify the number of pixels for the minimum and maximum object. Select the data processing speed, camera settings, analysis type (standard, advanced), entering the Video Analytics license and its status (valid, invalid).



B.2.5.6 PTZ

Allows you to configure the functions and parameters of the pan / tilt / zoom of the VisorJet Smart PTZ series cameras. PTZ parameters mainly include Basic Parameters, Auto Return, PTZ Restrictions, Home Position, Privacy Mask, Scheduled Tasks, Auto Tracking, Configuration Reset, RS485 (Speed PTZ) interface.

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e) Hec	neuc Dek	Дополни	ительные настр	ойки >> PTZ						
4	Онлайн	Базовый	Авто-возврат	PTZ-лимит	Начальная позици	ия Маска приватности	Запланированые задания	Авто трекинг	Сброс конф.	
	Amuun					PTZ OSD				,
	прхив					Статус зума:	5 секунд]		
	Покальный путь					Статус наклона-поворота:	5 секунд]		
						Статус пресета:	5 секунд]		
}	Основные настройки					Пресет				
P .	Дополнительные					Сохранить пресет:				
	Оповещение					Скорость				
	Хранилище					Скорость пресета:	5]		
	Безопасность					Патруль				
	SIP					Восстановление ватрулирования:				
	Видео Аналитика					Время восстановления(5-720с):	10	s		
	PTZ						1			
	Журнал					Фокус				
į.	Система					Режим фокуса:	Авто]		
						Память при выключении				
	Обслуживание					Уст. время продолжения:	Onemountry N			

Table B.6.1 - Buttons of the "PTZ" tab

Tab	Button	Description
Basic	Zoom status	Adjust the scaling options. States: always closed / always open / 2sec / 5sec / 10sec
	Tilt-turn status	Adjust the incline settings. States: always closed / always open / 2sec / 5sec / 10sec
	Preset status	Adjust the panning parameters. States: always closed / always open / 2sec / 5sec / 10sec
	Save preset	If enabled, the image of the preset position will be shown im- mediately instead of broadcasting the display of the path to the preset position.
	Preset speed	Preset Speed: Levels 1 ~ 10 are available. Manual speed: defines the manual control speed, only for Speed PTZ: Low / Medium / High. Sweep Speed: Determines the auto sweep speed. Level 1 ~ 10 is available for Speed PTZ only.
	Patrol recovery	Restoring a preset series of functions after manually operating the camera.
	Recovery time (5-720s)	Set the patrol recovery time, from 5 to 720 seconds.
	Focus mode	Three focusing modes are available: auto / semi-automatic / manual. Minimum Focus Distance: Set the minimum focus distance to adjust the focus step: 1 / 1.5 / 3/6/10/20 meters, only for Speed PTZ.
	Set time to continue	If the camera stops working for any reason, its position will be recorded. And it will resume its position after power on. You can set the resume time to 30 seconds, 60 seconds, 300 sec- onds, or 600 seconds to record the position.

Tab	Button	Description
Automatic return	Enable	Allows the PTZ camera to automatically return to the preset home position after a period of delay. Check the box to enable
	Delay	Set the delay time for starting the auto-return mode, 5-720s.
	Auto-return mode	The preset point will take effect at startup
	Auto-return ID	Select a preset point in the list, press the "call" button to check the location. You can also select your current location.
PTZ limit	Limit mode	The PTZ camera can be programmed to move within a config- urable range (left / right). Manual limit: on the control panel, pressing the right / left buttons will prevent the camera from turning beyond the spec- ified limits. Scan Limit: In scan mode, will prevent the camera from turn-
	Enable	When pressing, set the extreme positions of the left and right limits, press, OK and save
	Mode status	Shows the status: limited or not.
Starting position	Install	Set the starting position of the camera, to which it will return after performing manual or automatic adjustments.
	Clear	Delete memorized position
	Activation	Set the starting position
Privacy mask	Add to	Allows you to cover some areas in the image with a mask and prevent surveillance and recording in these areas. The mask area does not move when you move the camera. A maximum of eight mask areas can be specified.
	Clear	Remove mask from current image
	Delete everything	Remove all masks, including those not included in the image.
Scheduled tasks	Enable Scheduled Tasks	Setting up the automatic execution of a specific action in a user-defined period of time
	Close / Auto / Preset / Patrol / Pattern / Check.	Select a task from the pop-up menu or check the box in the graphic display of the task to the right of the schedule: Close / Auto / Preset / Patrol / Pattern / Check.
		The scheduled tasks function takes precedence over the Auto- return function. When these two functions are set at the same time, only the scheduled tasks function takes effect.
	Schedule settings	Set a schedule and task details. The time of each task cannot be overlapped. Up to 10 tasks can be configured for each day.
	Recovery time	Set the recovery time for the task (from 5 to 720 seconds). You can also set the idle time before the PTZ camera starts the task.
Autotracking	Enable	Allows you to rotate the camera automatically to track moving objects.

Tab	Button	Description			
Sensitivity		Set the sensitivity of motion detection, from 1 to 10.			
Max Tracking Set the maximum tracking time Time the time elapses or the subject turn to its original position (Au		Set the maximum tracking time from 5 to 300 seconds. When the time elapses or the subject disappears, the camera will re- turn to its original position (Auto return)			
Reset configurations		Delete tasks page.			
RS485	Protocol	Selecting the RS485 protocol			
	Frequency	Selecting the transmission frequency			
	Number of bits	Number of information bits			
	Stop bit	Selecting the stop bit			

B.2.5.7 LPR tab (available after purchasing especial license, only for models VJS-B620-2-LPR, VJS-B622-2-LPR, VJS-B603-2-LPR, VJS-P612-2-LPR). LPR automatically detects and captures a license plate in real time, compares it to white and black lists, then generates an alert and performs an action such as raising / lowering a barrier.



Table B.6.1 - Buttons of the LPR tab

Tab Button		Description
Settings	Enable License Plate Recogni- tion	Adjust the scaling options. States: always closed / always open / 2sec / 5sec / 10sec
	License	Field for entering the license key. It also displays the active license key.
	License Status	Valid / Invalid.

Tab	Button	Description
	Processing Res- olution	Selecting Image Resolution
	Effective Region Settings	Configure the LPR detection regions for the current area
Effective Time		Indicate operating time
	Enable LPR Messages Post	Allows you to transfer information to third-party devices.
	Туре	RTSP/TCP
List Management	Add License Plate	Select the license plate type as black or white, enter the li- cense plate, click the Add button, the license plate will be added successfully.
	Batch Upload	Download the license plate list in CSV (UTF-8) format. By pattern: Type, Plate White, K935XX190 Black, B442CK178
	List Search	Displays the list of license plates: All / black / white
	Export List	Click the "Export List" button to export the license plate in the current list to a csv form locally.
Black List Mode	Enable Black List Mode.	Enable/ disable Black List Mode
	Schedule Set- tings	Set a schedule for detections
	Alarm Notifica- tion	Selecting a notification when an alarm is triggered.
	Alarm actions	Selecting an action when alarm is triggered.
White List Mode	Enable White List Mode	Enable/ disable White List Mode
	Schedule Set- tings	Set a schedule for detections
	Alarm Notifica- tion	Selecting a notification when an alarm is triggered.
	Alarm actions	Selecting an action when alarm is triggered.
Visitor Mode	Enable Visitor Mode	Enable/ disable Visitor Mode
	Schedule Set- tings	Set a schedule for detections
	Alarm Notifica- tion	Selecting a notification when an alarm is triggered.
	Alarm actions	Selecting an action when alarm is triggered.
List		Displays video from the camera in real time and shows the de- tected recognized license plates.

Tab	Button	Description
	Search	Displays a list (Time, License plate, License plate type) of rec- ognized license plates: All / black / white / visitor
	Export Journal	Allows you to save the RPO journal in CSV (UTF-8) format.
		By pattern:
		Time, Plate, Type
		2019-06-19 17:17:22, K935XX19, Visitor
		2019-06-19 17:17:22, A621TP190, Visitor

B.2.5.6 Logs

The logs tab contains the information about the time and IP that has accessed the camera through web, events, operations, notifications, video analytics.

EES-NeoTek	letwork Camera									💄 admin 📔
eolek	Дополнительные настро	ойки >> Журнал								
• Онлайн	Журнал									
Архив		Показать 30 🗸	имеющихся							
		Время	Класс	Тип записи	Значение	Пользователь	IP	Подробно	Поиск в журнале	
 Локальный путь 		2019-06-17 16:13:33	Операции	Вход в систему		admin	10.1.55.105		Класс:	
• Основные настр	йки	2019-06-17 15:46:23 Bi	деоаналитика	Пребывание					Все классы 🗸	
Пополнитольны		2019-06-17 15:46:17 Bi	деоаналитика	Пребывание					Все классы	
дополнительны		2019-06-17 15:46:11 Bi	деоаналитика	Пребывание					2019-06-17 00:00:00	
Хранилище		2019-06-17 15:46:04 Bi	деоаналитика	Пребывание					Конец:	
Безопасность		2019-06-17 15:45:58 Bi	цеоаналитика	Пребывание					Помох	
SIP		2019-06-17 15:45:52 Bi	деоаналитика	Пребывание						
Видео Аналитика Журнал		2019-06-17 15:45:46 Bi	деоаналитика	Пребывание					Экспорт журнала	
Система		2019-06-17 15:45:40 B	деоаналитика	Пребывание					время хранения:	
- onorodid		2019-06-17						`		
Обслуживание		Записи с 1 Первая	по 30 из 876 ил Предыдущая	леющихся	30 Следующ	ая Последняя		Пере	Сохранить	
				_						

B.2.6 System

The System tab has all information about the camera model, device version, software version, MAC address, number of alarm inputs / outputs, operating time. Also allows you to change the device name.

The System tab is shown in Figure B.B.

7E	ES-NeoTek Netw	ork Camera			💄 admin 🕒 Вых
es Hē	olek	Система			
	^	Информация о системе			
×	Архив		Система		
	Локальный путь		Имя устройства:	VisorJet Smart Fisheye	
			Модель камеры:	VJS-F603-12	
Ş	Основные		Версия устройства:	V1.0	
	Видео		Версия ПО:	43.7.74.71-r2	
	Изображение		МАС адрес:	1C:C3:16:22:1B:8E	
	Аудио		Информация о устройстве:	SJ000EQ370N2001	
	Сеть		Вход тревоги:	1	
	Дата и время		Выход тревоги:	1	
s°	Дополнительные		Система работает :	1 часов 46 минут	
	Система			Сохранять	

Figure B. - System tab

Description of the System tab is presented in the table

Tab Button		Description			
Device Infor- mation Device Name		The device name can be customized. It will be seen in file names of video files			
	Product Model	The product model of the camera			
	Hardware Ver- sion	The hardware version of the camera			
	Software Ver- sion	The software version of the camera can be upgraded			
	MAC Address	Media Access Control address			
	Device Infor- mation	The device information, including information about alarm I/O and clipper chip			
Alarm Input Alarm Output		The number of Alarm Input interface			
		The number of Alarm Output interface			
	Uptime	The elapsed time since the last restarted of the device			

Appendix C

Installation recommendation

C.1 Mounting the VisorJet Smart Bullet Series, Models VJS-B620-2-LPR, VJS-B620-2, VJS-B621-2, VJS-B620-5, VJS-B621-5.

Step 1: Attach the sticker in the place for installing the camera;



Step 2: Remove the clamping terminal on the back cover of the junction box and cut a hole on the rubber plug, pass the cables through the hole, then attach the back cover to the sticker;





Step 4: Adjust the length of the cables, connect them to the corresponding interfaces and fix with the clamp. Close the junction box and tighten the screws. Please remember to install the rubber plug when the holes are not in use;



Step 5: adjust the shooting direction and fix the set screw tightly.

C.2 Mounting the VisorJet Smart Bullet Series, Model VJS-B622-2-LPR.



Step 1: Install the lens and iris control cable, then tighten the screw;

Step 2: Connect the cables. Attach the camera to the mounting plate.



Step 3: Install the camera into the housing;



C.3 Installation of the VisorJet Smart Dome series, models VJS-D620-2, VJS-D621-2, VJS-D620-5, VJS-D621-5.

Step 1: Loosen the screws on the dome cover and remove it. Loosen the set screw and remove the bracket, fix the bracket where the camera is to be installed.



Step 2: Loosen the fixing screw and open the camera body. Unscrew the watertight connector in the cable entry hole and then thread the cables through the cable entry hole;



Step 3: Rotate the camera clockwise and then fix the camera to the bracket with the fixing screw;



Step 4: Thread the cables through the white rubber ring and the black rubber plug in sequence (place the punching cap on the Ethernet connector and thread the cable through the white rubber ring from the large hole to the small one). Align the ring and plug, screw them into the cable entry hole. Connect the cables to the corresponding connectors, then attach the camera body to the base;



Step 5: Loosen the clamping screw, adjust the camera lens in the desired direction. Tighten the clamping screw to secure the lens;



Step 6: Attach the dome cover and make sure the groove above is aligned with the below one as shown in the picture, then fix the camera tightly.



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Lead out the Ethernet cable and fix the camera where it should be installed using screws or self-tapping screws.



Loosen the screws to access the SD card slot. Fasten the screws after installing the SD card.



C.5 Mounting the VisorJet Smart Bullet mini series, model VJS-B603-2-LPR

Step 1: Unscrew the plastic connector, and then remove the rubber seal and the cap nut of the waterproof connector;

Step 2: Unscrew and open the back cover, then insert the microSD / SDHC / SDXC card;

Step 3: Pass the Ethernet cable through the center of the bracket, cap nut, rubber seal and back cover;



Step 4: Install and tighten the back cover;

Step 5: Tighten the plastic connector, the rubber seal and the cap nut of the waterproof connector;



Step 6: Connect the bracket and the camera, rotate the bracket and fix it with screws;



C.6 Mounting the VisorJet Smart Dome mini series, model VJS-D603-2

Step 1: Remove the dome cover, loosen the set screw and remove the bracket;



Step 2: Fix the bracket in the position where the camera is going to be installed.



Step 3: Connect the cable, rotate the camera to the bracket and tighten the set screw;



Step 4: Loosen the clamping screw and adjust the shooting direction, tighten the clamping screw;



Step 5: Attach the dome cover.



C.7 Mounting the VisorJet Smart Dome mini series, model VJS-D603-5

Step 1: Remove the camera cover;



Step 2: Fix the camera to the ceiling or wall using screws. Connect the cables;



Step 3: Loosen the clamping screw to adjust the angle of the lens, then tighten it;



Step 4: Close the camera cover.



C.8 Mounting the VisorJet Smart PTZ Series, Models VJS-P612-2-LPR, VJS-P612-5

Lead out the cables and fix the camera where it should be installed using screws or selftapping screws.



Loosen the screws to access the SD card slot. Fasten the screws after installing the SD card.



C.9 Mounting the VisorJet Smart Speed PTZ Series, Model VJS-P622-5

Step 1: Check the condition of the wall or ceiling. Make sure there is sufficient strength to avoid crushing. It must support eight times the weight of a camera;

Step 2: Drill 4 holes on the wall;



Step 3: Lead out the cables through the bracket. Align the bracket with the threaded holes of the camera body and secure them. ATTENTION! For safe installation, secure the camera with a steel cable to the bracket.



Step 4: Make sure the camera body is properly installed on the bracket, and align the bracket with the holes on the wall, then tighten the screws.



C.10 Mounting the VisorJet Smart Fisheye Series, Model VJS-F603-5

Step 1: Connect the cables to the corresponding interface on the back cover of the junction box. Then fix the back cover in the position in which it should be installed;



Step 2: When the front cover is securely attached to the back cover, the camera will be powered from the wall outlet. Adjust the shooting direction and lock by turning the locking ring.



Loosen the screws to access the SD card slot. Fasten the screws after installing the SD card.



C.11 Mounting the VisorJet Smart Fisheye series, model VJS-F603-12

Hold the camera and turn the top cover counterclockwise and then remove it:

Step 1: Attach the bracket to the ceiling or wall where the camera will be installed. Then fasten the screws. Connect the cables, rotate the camera to the bracket clockwise and tighten the set screw;



Step 2: Rotate the cover clockwise until the anchor points are aligned.



C.12 Connecting alarm sensors

The general connection diagram of alarm sensors and warning devices is shown in the figure:



0110	Assignment
A, B	output, dry contact, 24V 1A, normally closed / normally open, selectable in the web interface;
G	Digital ground;
IN	input, <12V, pull-up to + 12V / open collector.

C.13 Mounting the moisture-proof connector

Step 1: Pass the Ethernet cable through the plastic nut, rubber ring and shroud;

- Step 2: Insert the rubber ring into the shroud;
- Step 3: Screw the nut onto the shroud;
- Step 4: Place the O-ring on the network port connector;

Step 5: Connect the RJ45 to the network port connector, tighten the bolt and the connector.



Please wrap the entire Ethernet cable connection tightly with blue tape to better prevent moisture penetration.