

Руководство пользователя

DigitalRing Multivisor

*Система многоканального
многооконного видеомониторинга*

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	94
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	94
	95
VII	DigitalRing	
	Multivisor	97
1	100

2	100
3	100
4	104
VIII		105
1	105
2	105

1

"DigitalRing Multivisor"

IP-

"DigitalRing".

© 2009 : 3.0.0
DigitalRing.

DigitalRing

"DigitalRing Multivisor"
DigitalRing

Windows 95, Windows 98, Windows 2000, Windows XP, Windows VISTA, Windows
Server 2003, Windows Server 2008, Windows 7,
Microsoft ().

Intel, Celeron, Pentium, Xeon, Core Duo, Core Quad
Intel.

Microsoft Windows 2000 / XP / Vista

"DigitalRing Multivisor" ()

"DigitalRing Multivisor"



DigitalRing

"DigitalRing Multivisor"

Multivisor",

"DigitalRing

- DigitalRing: <http://www.d-ring.ru/>
- DigitalRing Multivisor: <http://www.d-ring.ru/products/video/multivisor>
: support@d-ring.ru

2

1. , ;
2. "... "
3. "... (, , .)" :
(,) , .
4. " / / / " , /.
5.  .
6. _____

3

"DigitalRing Multivisor"
MS Windows

- (, . .);
- , .

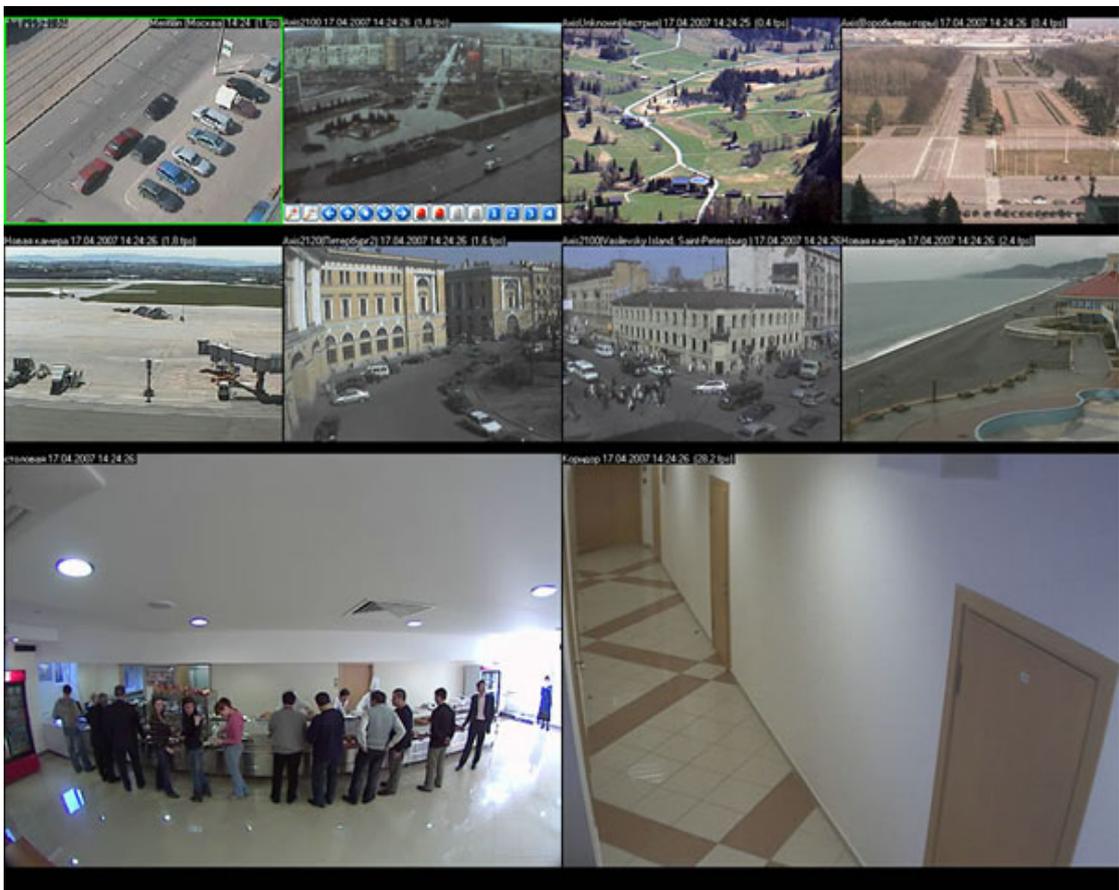
4

DigitalRing Multivisor,

4.1 DigitalRing Multivisor

DigitalRing Multivisor

8



DigitalRing Multivisor

DigitalRing Multivisor

IP-

"DigitalRing".

"DigitalRing"

IP-

"DigitalRing"

"DigitalRing"

- ;
- (,);
- ;
- ;
- ;
- IP-

"DigitalRing"

DigitalRing",
<http://www.d-ring.ru/>



4.2

DigitalRing ("DigitalRing" (-), -),

- /
- " « » "
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1. (")
 2.)
 3. 1 ()
- ;

- (/);
- 4.
- 5.
- 6.
- 7. /
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- 10.
- 11.
- 12.
- 13. / -

4.3

" DigitalRing", " "

" IP- IP- IP-

IP- WEB

(IP-)

"DigitalRing Multivisor"

IP-

IP

IP-

WEB-

"DigitalRing Multivisor".

MotionJPEG

JPEG,

FPS

4.4

MPEG4/H264 IP- MotionJPEG IP- JPEG. MPEG2/

).

- 150 ()

- 25 ()

8

MotionJPEG.

MotionJPEG

0.5-16 /

AVI BMP JPEG.

HTTP

4.5

IP- , (,) .

Windows 2000, Windows XP, Windows 2003, Windows Vista, Windows 7.

IP- **"DigitalRing Multivisor"** , **HTTP** **JPEG MotionJPEG.**
MPEG2, MPEG4, H264, ().

4.6

- - () ();
- (/);
- (/);
- USB .

5

DigitalRing Multivisor

5.1

5.1.1

"DigitalRing Multivisor" Windows 2000 (32-
Service Pack 3),
Windows XP (Service Pack 2), Windows 2003 Server, Windows Vista, Windows 2008

Server, Windows 7.

64-

Windows.

5.1.2

(/).

(FPS)		1	2	4	6	8	12	16	20	24	32	48	64	
A (1 /)	320x240										P4	P4	P4	
	352 288									P4	P4	P4	P4	
	640x480								P4	P4	P4	P4	P4	
	704 576							P4	P4	P4	P4	P4	PD-X	
B (2 /)	320x240										P4	P4	P4	
	352 288									P4	P4	P4	PD-X	
	640x480								P4	P4	P4	PD-X	PD-X	
	704 576							P4	P4	P4	PD-X	PD-X	PD-X	
C (3 /)	320x240									P4	P4	P4	PD-X	
	352 288								P4	P4	P4	PD-X	PD-X	
	640x480							P4	P4	P4	PD-X	PD-X	PD-X	
	704 576						P4	P4	P4	PD-X	PD-X	PD-X	2X2	
D (4 /)	320x240								P4	P4	P4	PD-X	PD-X	
	352 288							P4	P4	P4	PD-X	PD-X	PD-X	
	640x480						P4	P4	P4	PD-X	PD-X	PD-X	2X2	
	704 576					P4	P4	P4	PD-X	PD-X	PD-X	2X2	2X2	
E (5 /)	320x240								P4	P4	P4	PD-X	PD-X	NA
	352 288							P4	P4	P4	PD-X	PD-X	PD-X	NA
	640x480					P4	P4	P4	PD-X	PD-X	PD-X	2X2	NA	
	704 576					P4	P4	P4	PD-X	PD-X	PD-X	2X2	2X2	NA
F (7 /)	320x240								P4	P4	PD-X	PD-X	PD-X	NA
	352 288								P4	P4	PD-X	PD-X	PD-X	NA

	8													
	640x480					P4	P4	PD-X	PD-X	2X2	2X2	NA	NA	
	704 576				P4	P4	PD-X	PD-X	2X2	2X2	2X2	NA	NA	
	320x240					P4	P4	PD-X	2X2	NA	NA	NA	NA	
G (15 /)	352 288					P4	P4	PD-X	PD-X	2X2	NA	NA	NA	NA
	640x480				P4	P4	PD-X	PD-X	2X2	NA	NA	NA	NA	NA
	704 576				P4	PD-X	PD-X	2X2	2X2	NA	NA	NA	NA	NA
H (25 /)	320x240					P4	PD-X	PD-X	2X2	NA	NA	NA	NA	NA
	352 288				P4	P4	PD-X	PD-X	2X2	NA	NA	NA	NA	NA
	640x480				P4	PD-X	PD-X	2X2	2X2	NA	NA	NA	NA	NA
	704 576				PD-X	PD-X	2X2	2X2	NA	NA	NA	NA	NA	NA

	Celeron D 2,5	Intel® Celeron® D 326 2.53 GHz Socket 775;
P4	3 P4	Intel® Pentium® 4 641 Socket 775, 3.2GHz; AMD Athlon 64 4000+ Socket 939, 2.4GHz;
PD-X	2-x	Intel® Pentium® D 945 3.4GHz Socket 775 ; Intel Xeon 5060A 3.2GHz; Intel® Core 2 Duo E6600 2.4GHz; AMD Athlon 64 X2 5600+ AM2;
2X2	4-x 2 2-	2 * Xeon 5060P 3.2GHz, 1066MHz, 2x2048K; Intel® Core 2 Quad Q6600 2.4GHz; Xeon 5335A 2.0Hz, 1333MHz, 4x2048K;
NA	1	—

Pentium 4 ()

Windows 2000 / XP

128

512

"DigitalRing Multivisor", -

"DigitalRing

5.1.3

1.

SAS (SCSI-). SATA, SATAII, IDE . ()
 NAS , Flash/USB/Fireware
 RAID
 SCSI) . (

, SATA IDE

2.

MJPEG 640x480): (

	FPS	
< 5	5	1
	10	1
	20	1
< 10	5	2
	10	2
	20	2
< 15	5	2
	10	3
	20	3

Калькулятор места...

Разрешение камеры:
320x240

Частота кадров:
7

Количество дней
1

Количество камер
1

Необходимо: 8,65 Гбайт

Рассчитать

1

() ,

() 1 :

FPS										
		1	2	3	4	5	7	14	21	30
1 /	320x240	1,25	2,47	3,71	4,94	6,18	8,65	17,3	25,96	37,08
	352 288	1,65	3,3	4,94	6,59	8,24	11,54	23,07	34,61	49,44
	640x480	3,71	7,42	11,12	14,83	18,54	25,96	51,91	77,87	111,24
	704 576	4,94	9,89	14,83	19,78	24,72	34,61	69,21	103,82	148,32
2 /	320x240	2,5	4,94	7,42	9,88	12,36	17,3	34,6	51,92	74,16
	352 288	3,3	6,6	9,88	13,18	16,48	23,08	46,14	69,22	98,88
	640x480	7,42	14,84	22,24	29,66	37,08	51,92	103,82	155,74	222,48
	704 576	9,88	19,78	29,66	39,56	49,44	69,22	138,42	207,64	296,64
3 /	320x240	3,75	7,41	11,13	14,82	18,54	25,95	51,9	77,88	111,24
	352 288	4,95	9,9	14,82	19,77	24,72	34,62	69,21	103,83	148,32
	640x480	11,13	22,26	33,36	44,49	55,62	77,88	155,73	233,61	333,72
	704 576	14,82	29,67	44,49	59,34	74,16	103,83	207,63	311,46	444,96
4 /	320x240	5	9,88	14,84	19,76	24,72	34,6	69,2	103,84	148,32
	352 288	6,6	13,2	19,76	26,36	32,96	46,16	92,28	138,44	197,76
	640x480	14,84	29,68	44,48	59,32	74,16	103,84	207,64	311,48	444,96
	704 576	19,76	39,56	59,32	79,12	98,88	138,44	276,84	415,28	593,28
5 /	320x240	6,25	12,35	18,55	24,7	30,9	43,25	86,5	129,8	185,4
	352 288	8,25	16,5	24,7	32,95	41,2	57,7	115,35	173,05	247,2

	640x480	18,55	37,1	55,6	74,15	92,7	129,8	259,55	389,35	556,2
	704 576	24,7	49,45	74,15	98,9	123,6	173,05	346,05	519,1	741,6
7 /	320x240	8,75	17,29	25,97	34,58	43,26	60,55	121,1	181,72	259,56
	352 288	11,55	23,1	34,58	46,13	57,68	80,78	161,49	242,27	346,08
	640x480	25,97	51,94	77,84	103,81	129,78	181,72	363,37	545,09	778,68
	704 576	34,58	69,23	103,81	138,46	173,04	242,27	484,47	726,74	1038,24
15 /	320x240	18,75	37,05	55,65	74,1	92,7	129,75	259,5	389,4	556,2
	352 288	24,75	49,5	74,1	98,85	123,6	173,1	346,05	519,15	741,6
	640x480	55,65	111,3	166,8	222,45	278,1	389,4	778,65	1168,05	1668,6
	704 576	74,1	148,35	222,45	296,7	370,8	519,15	1038,15	1557,3	2224,8
25 /	320x240	31,25	61,75	92,75	123,5	154,5	216,25	432,5	649	927
	352 288	41,25	82,5	123,5	164,75	206	288,5	576,75	865,25	1236
	640x480	92,75	185,5	278	370,75	463,5	649	1297,75	1946,75	2781
	704 576	123,5	247,25	370,75	494,5	618	865,25	1730,25	2595,5	3708

5.1.4

- NVidia GeForce 4 MX 440.

640x480
 640x480
 320x240
 1280x1024
 4-
 16

	1	2	4	6	8	12	16	20	25	32	48	64
320x240	A	A	A	A	A	A	A	2xA	2xA 1xD	2xA	3xA 2xD	4xA
352 288	A	A	A	A	A	2xA	2xA	1xF	1xG	4xA	2xG	3xG
640x480	A	A	A	2xA 1xG	2xA 1xG	4xA	4xA	3xG	3xG	4xG	NA	NA
704 576	A	D	D	2xD	2xD	3xD	4xD	NA	NA	NA	NA	NA

A	17	LCD	1280*1024	Samsung 710N
---	----	-----	-----------	--------------

B	19	LCD	1400*900	Samsung 940BW CSH
C	20	LCD	1400*1050	Samsung 203B ESQ
D	20	LCD	1600*1200	ViewSonic VP2030b
E	21	LCD	1680x1050	Samsung 215TW (PWASQ)
F	24	LCD	1920*1200	ACER AL2423W
G	19	CRT	1920 x 1440	Samsung SyncMaster 997MB

1X ... 2X – 1 PCI-E c , ASUSTeK
EN7300GS

4X – 2 PCI-E c , ASUSTeK
EN7300GS + 2 , ASUSTeK
P5NSLI

5.1.5

"DigitalRing" "DigitalRing"

Multivisor" IP-

100 - 1 .100 1

70%

100 - 70

1 - 700

WiFi

10-40% WI-FI (1...8)

IP-

320x240 - 15360 (15) ;

- 352x288 - 20480 (20);
- 640x480 - 46080 (45);
- 704x576 - 61440 (60);

:

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*

*

1.

16

704x576

7 FPS

:

$$61440 * 7 * 16 = 6881280$$

$$6881280 * 8 = 55050240$$

100

, . . .

2.

704x576

100

7 FPS
?

70

$$\left(\frac{70 * 1024 * 1024}{100} / 8 = 9175040 \right) -$$

$$9175040 / (61440 * 7) = 9175040 / 430080 =$$

21, . . . 21

1

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	()		
		1	100
320x240	15360	5697	570
352x288	20480	4272	427
640x480	46080	1899	190
704x576	61440	1424	142

5.1.6

1. , , .
2. NTFS (2).
3. 256 .

4. NTFS). () . () .
5. .
6. :
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 - ;
 - nVidia .
7. / , .
8. Firewall. - . , ' , 6 - HTTP) . HTTP : (- -
9. .
10. .

"DigitalRing Multivisor"
!

5.1.7

"DigitalRing Multivisor" HTTP JPEG MotionJPEG. IP- , MPEG2/MPEG4/h264, (,).

"DigitalRing Multivisor"

IP- .

: http://www.d-ring.ru/support/hardware_list

Axis Communications

Axis 200+, Axis 205, Axis 206, Axis 206M, Axis 206W, Axis 207, Axis 207W, AXIS 209FD-R, Axis 210, Axis 2100, Axis 210A, Axis 211, Axis 2110, Axis 211A, Axis 212, Axis 2120, Axis 213 PTZ, Axis 2130 PTZ, Axis 214 PTZ, Axis 215 PTZ, Axis 216 FD, Axis 221, AXIS 223M, Axis 225 FD, Axis 231D PTZ, Axis 232D PTZ, Axis 233D, Axis 2400 Server, Axis 2400+ Server PTZ, Axis 2401 Server, Axis 2411 Server, Axis 241Q or QA Server PTZ, Axis 241S or SA Server PTZ, Axis 2420 PTZ, Axis 247S, Axis 207MW, Axis M1011, Axis M1011-W, Axis M1031-W, Axis P1311, Axis 211M, Axis 211W, Axis Q1755, Axis 209FD, Axis 209MFD, Axis 209MFD-R, Axis 216FD-V, Axis 216MFD, Axis 216 MFD-V, Axis P3301, Axis P3301-V, Axis

M3011, Axis 212 PTZ-V, Axis 215 PTZ-E, Axis 231D+, Axis232D+, Axis 243SA, Axis Q7401, Axis M7001, Axis 240Q, Axis 243Q Blade, Axis Q7406 Blade.

Airlink101

Airlink101 AIC250, Airlink101 AIC250W, Airlink101 AICAP650, Airlink101 AICAP650W, Airlink101 AICN500, Airlink101 AICN500W, Airlink101 AICN777W, Airlink101 AICN747W, Airlink101 AICN747.

Avermedia

AVerMedia NC100 IP Camera

4XEM Corporation

4XEM IPCAMW40, 4XEM IPCAMW45, 4XEM IPCAMW50, 4XEM IPCAMWLPTG, 4XEM IPCAMWLPTZ, 4XEM IPCAMWPT, 4XEM IPCAMWPTZ

Arecont Vision

Arecont 1300, Arecont 2100, Arecont 3100, Arecont 3130, Arecont 5100, Arecont 8180, Arecont 8360

AVIOSYS International

Aviosys IP Kamera 9060, Aviosys IP Kamera

Bosch Group

Bosch NWC-0455-10P, Bosch NWC-0495-10P, Bosch NWC-0700, Bosch NWC-0800, Bosch NWC-0900, Bosch NWD-455, Bosch NWD-495

Canon Inc.

Canon Network Camera

D-Link Corporation

D-Link DCS-2000, D-Link DCS-2100, D-Link DCS-2100+, D-Link DCS-2100G, D-Link DCS-3000 series, D-Link DCS-5300, D-Link DCS-5300G, D-Link DCS-5300W, D-Link DCS-6000 series, D-Link DCS-6112, D-Link DCS-6620, DLink DCS-900, DLink DVS-104

Intellinet

CCD Camera (550796,503181), CCD Camera (550796,503181), CCD IR Night Visio Camera (550291,550314), CCD IR Night Visio Camera (550291,550314), CMOS 1_3 Megapixel Camera Digital PTZ (550338), CMOS 1_3 Megapixel Camera Digital PTZ (550338), CMOS 2_0 Megapixel Camera Digital PTZ (550468), CMOS 2_0 Megapixel Camera Digital PTZ (550468), CMOS Camera (503365), High Speed Dome 30x (550260,550277), Mini Speed Dome 10x (550437,550451), Vandal Proof Fixed Dome (550406,550420), Vandal Proof Fixed Dome (550406,550420), Vandal Proof Fixed Dome IR Day-Night (550413,550444), Vandal Proof Fixed Dome IR Day-Night (550413,550444), Wireless CCD Camera (550178,550253), Wireless CCD Camera (550178,550253), Wireless CCD IR Night Visio Camera (550307,550321), Wireless CCD IR Night Visio Camera (550307,550321), Wireless CMOS 1_3 Megapixel Camera Digital PTZ (550345), Wireless CMOS 1_3 Megapixel Camera Digital PTZ (550345), Wireless CMOS 2_0 Megapixel Camera Digital PTZ (550482), Wireless CMOS 2_0 Megapixel Camera Digital PTZ (550482)

IQinVision

IQeye300 Series IP Camera, IQeye501 Series IP Camera, IQeye600 Series IP Camera

JVC Corporation

JVC Network Camera

Merit Lilin Ent. Co., Ltd.

Meritlilin PIH 7625 IP, Meritlilin PIH-7000, Meritlilin PIH-7622, Meritlilin PIH-7625

LevelOne

LevelOne FCS-1010

Linksys

Linksys pvc2300, Linksys wvc200, Linksys wvc2300, Linksys wvc54g

Lumenera Corporation

Lumenera Le045, Lumenera Le075, Lumenera Le075C-DN, Lumenera Le11059, Lumenera Le165, Lumenera Le165C-DN, Lumenera Le175, Lumenera Le175C-DN, Lumenera Le259, Lumenera Le275, Lumenera Le275C-DN, Lumenera Le375, Lumenera Le375C-DN, Lumenera Le575, Lumenera Le575C-DN

MOBOTIX AG

D12Di-IT, D12Di-Sec, D22M-IT-Night, D22M-IT, D22M-Sec-Night, D22M-Sec, D22Mi-Basic, M1, M10, M12D-IT-DNIGHT, M12D-Sec-DNIGHT, M12D-Sec, M22, M22M-IT, M22M-Sec-CSVario, M22M-Sec-Night-CSVario, M22M-Sec-Night, M22M-Sec, V10, V12D-Sec, V12M-Sec

Panasonic

BB-HCE481, BB-HCM110, BB-HCM311, BB-HCM331, BB-HCM371, BB-HCM381, BB-HCM403, BB-HCM481, BB-HCM511, BB-HCM515, BB-HCM531, BL-C1, BL-C10, BL-C11, BL-C111, BL-C131, BL-C20, BL-C30, KX-HCM1, KX-HCM10, KX-HCM130, KX-HCM170, KX-HCM180, KX-HCM2, KX-HCM230, KX-HCM250, KX-HCM270, KX-HCM280, KX-HCM8, WV-NF284, WV-NM100, WV-NP1004, WV-NP472, WV-NS202, WV-NS324, WV-NW474S

PiXORD Corporation

Pixord 100, Pixord 120, Pixord 200, Pixord 205, Pixord 240, Pixord 241, Pixord Video Server 1000, Pixord Video Server 2000, Pixord Video Server 4000

PLANET Technology Corporation

Planet ICA-210, Planet IVS-100, Planet ICA-100, Planet ICA-100PE, Planet ICA-108, Planet ICA-100W, Planet ICA-110, Planet ICA-110W, Planet ICA-150, Planet ICA-300, Planet ICA-310, Planet ICA-312, Planet ICA-350, Planet ICA-500, Planet ICA-501, Planet ICA-525, Planet ICA-530, Planet ICA-600, Planet ICA-601, Planet ICA-651, Planet ICA-700, Planet ICA-M230, Planet IVS-110, Planet ICA-750, Planet ICA-120, Planet ICA-230.

Sony Corporation

Sony SNC-CS10, Sony SNC-CS11, Sony SNC-CS3N, Sony SNC-CS3P, Sony SNC-CS50N, Sony SNC-CS50P, Sony SNC-DF40N, Sony SNC-DF40P, Sony SNC-DF70N, Sony SNC-DF70P, Sony SNC-M1, Sony SNC-M1W, Sony SNC-M3, Sony SNC-M3W, Sony SNC-P1, Sony SNC-P5, Sony SNC-RX550N, Sony SNC-RX550P, Sony SNC-RZ25N, Sony SNC-RZ25P, Sony SNC-RZ30N, Sony SNC-RZ30P, Sony SNC-RZ50N, Sony SNC-RZ50P, Sony SNC-Z20N, Sony SNC-Z20P

Toshiba Inc.

Toshiba IK-WB02A, Toshiba IK-WR01A

TRENDnet

TRENDnet TV-IP100, TRENDnet TV-IP100W, TRENDnet TV-IP201, TRENDnet TV-IP201P, TRENDnet TV-IP201W, TRENDnet TV-IP300, TRENDnet TV-IP301, TRENDnet TV-IP301W, TRENDnet TV-IP400, TRENDnet TV-IP400W, TRENDnet TV-IP410.

VIVOTEK Inc

Vivotek FD6111V, Vivotek FD6112V, Vivotek FD6121V, Vivotek FD6122V, Vivotek FD7131, Vivotek IP2111, Vivotek IP2112, Vivotek IP2121, Vivotek IP2122, Vivotek IP3111, Vivotek IP3112, Vivotek IP3121, Vivotek IP3122, Vivotek IP3132, Vivotek IP3133, Vivotek IP3135, Vivotek IP3136, Vivotek IP6112, Vivotek IP6117, Vivotek IP6122, Vivotek IP6127, Vivotek IP7131, Vivotek IP7132, Vivotek IP7135, Vivotek IP7137, Vivotek IP7138, Vivotek IP7139, Vivotek IP7151, Vivotek IP7152, Vivotek PT3112(22), Vivotek PT3114(24), Vivotek PZ6112(22), Vivotek PZ6114(24), Vivotek SD6112V, Vivotek SD6122V, Vivotek VS2101, Vivotek VS2402, Vivotek VS2403, Vivotek VS3100, Vivotek VS3102, Vivotek VS7100

5.2

5.2.1

5.2.1.1

5.2.1.1.1



RJ-45:



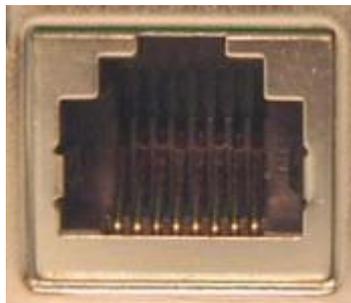
:



45:

PCI-

RJ-



1.



2.

PCI-

3.



4.

5.

6.



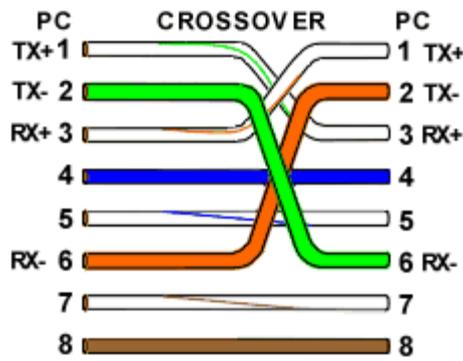
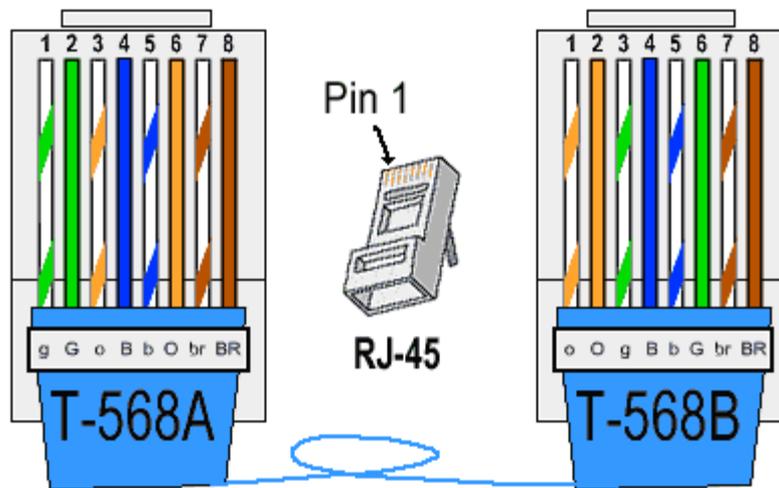
(, ,) .
-) RJ-45 :



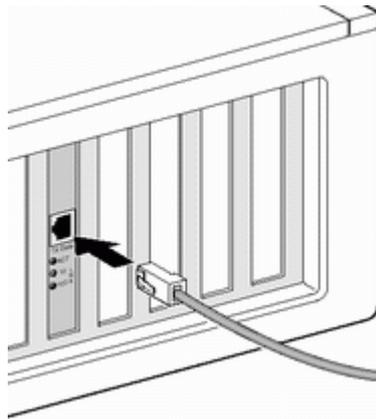
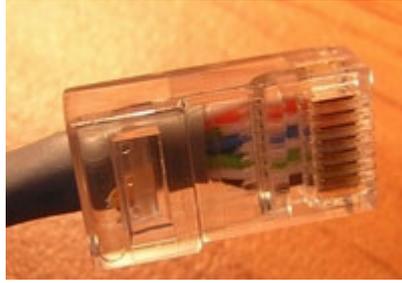
UTP cable

UTP

RJ-45.
- T 568A T 568B.



(T 568B) ,



:

, ().

().

()

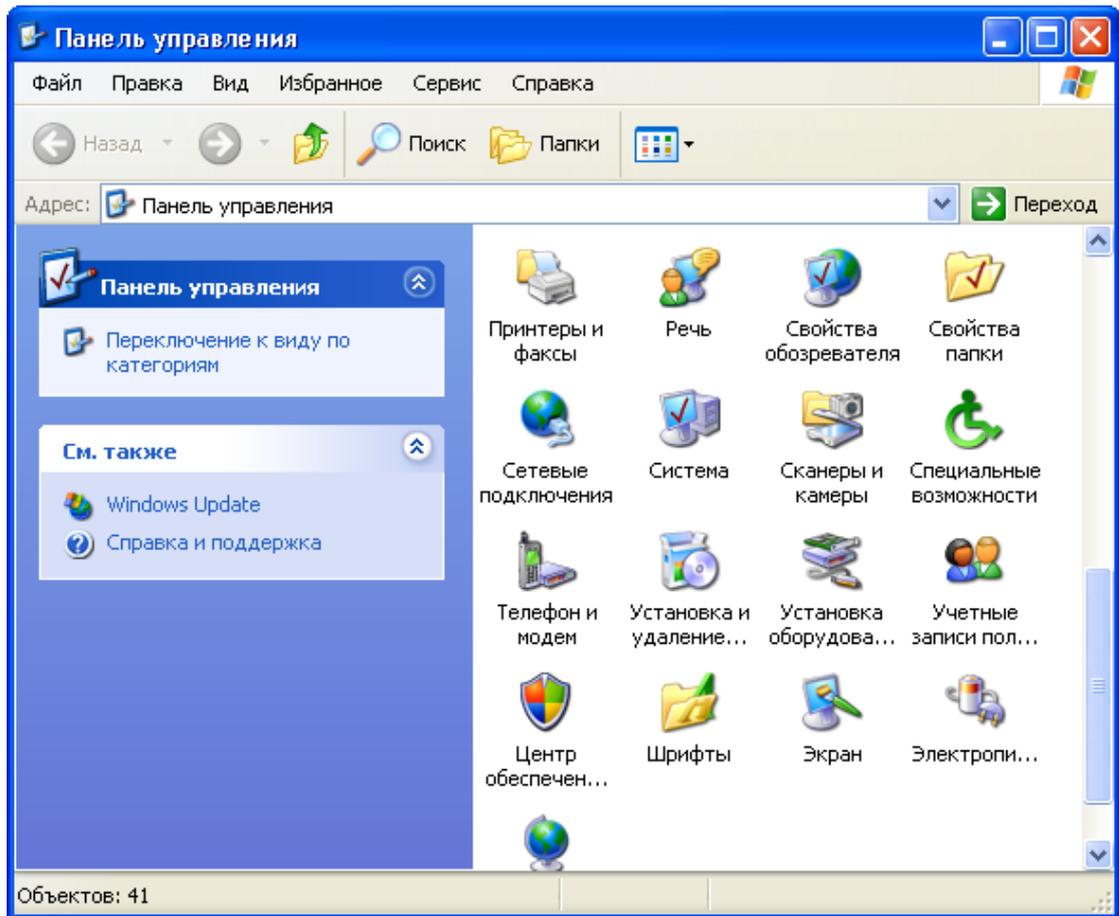
5.2.1.1.2

,

IP- .

1. Windows:
" > " " > "

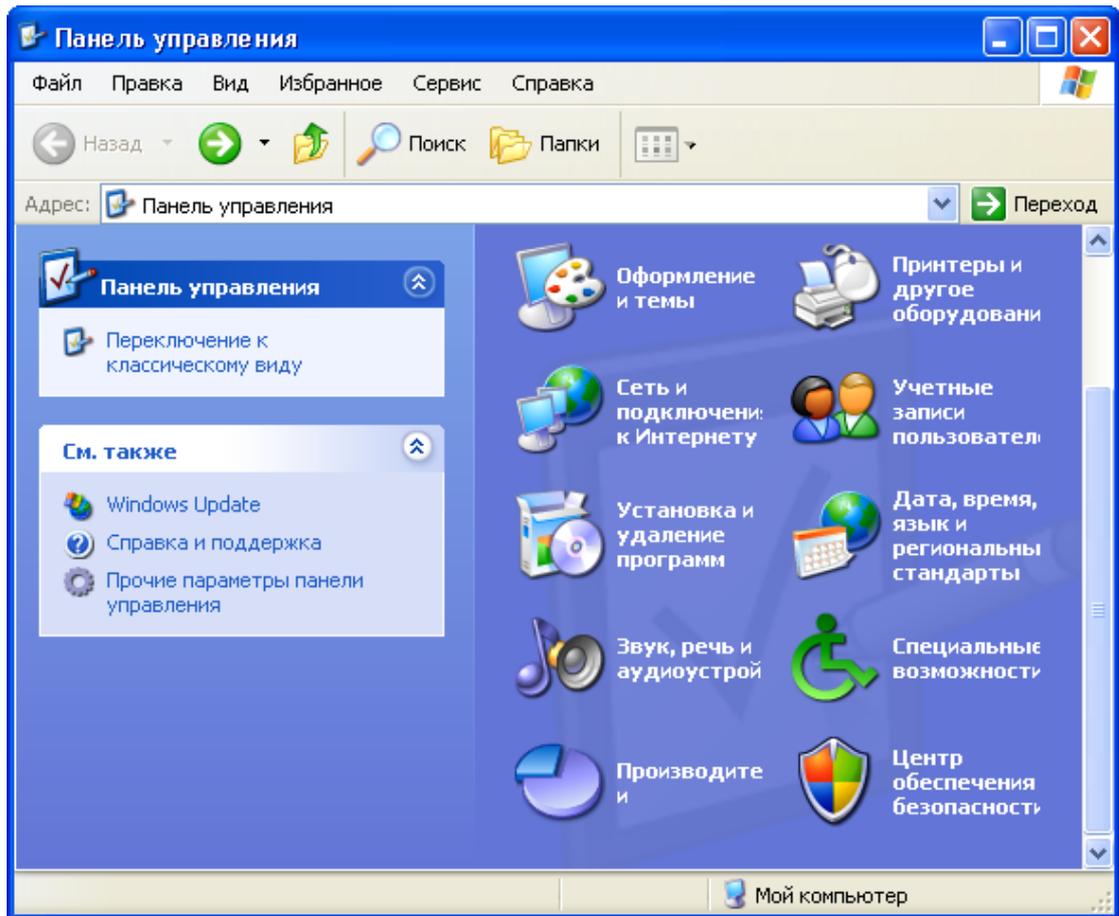
Windows.
"



Windows XP ()

"

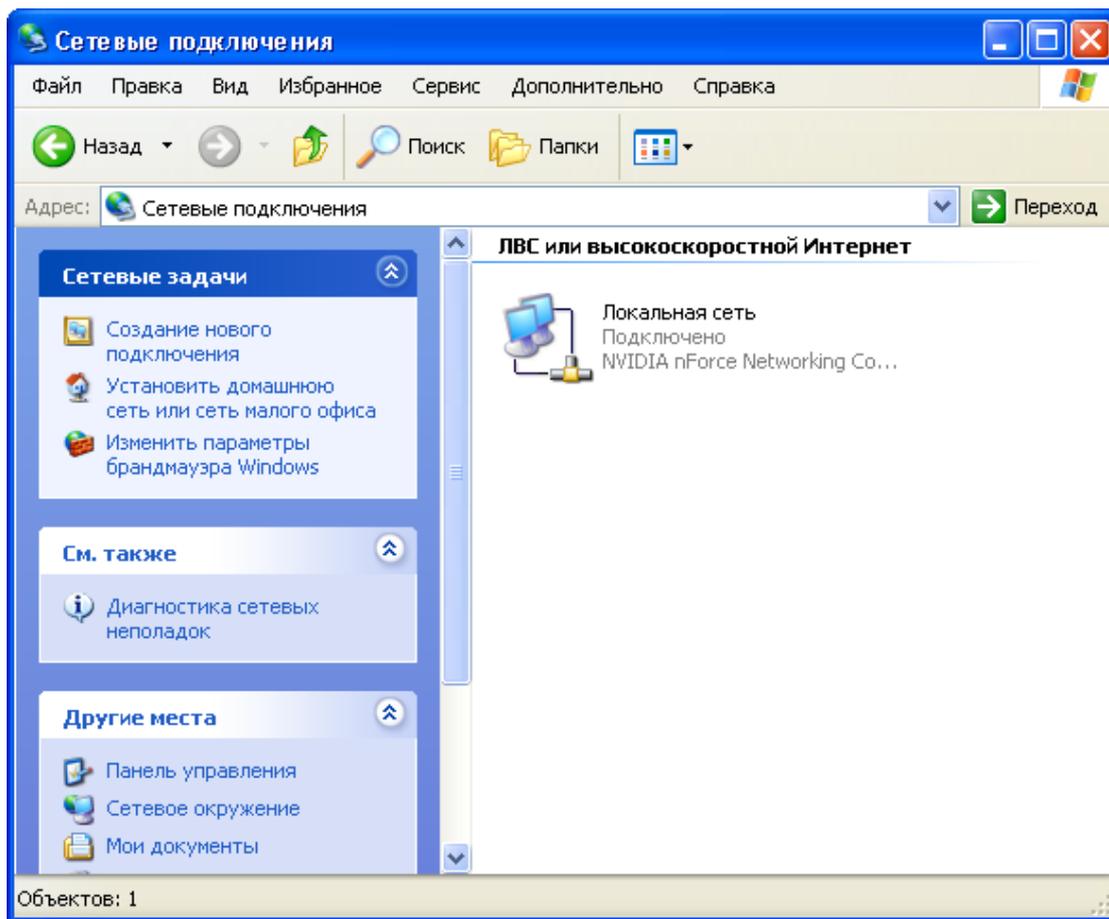
"



2.

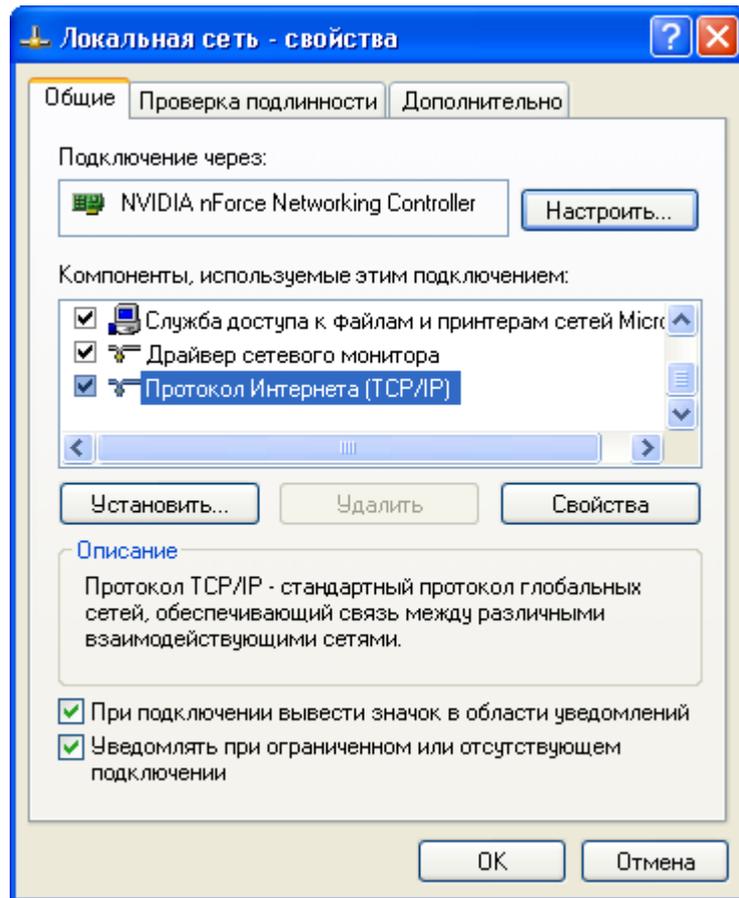
"

"



3.

4.



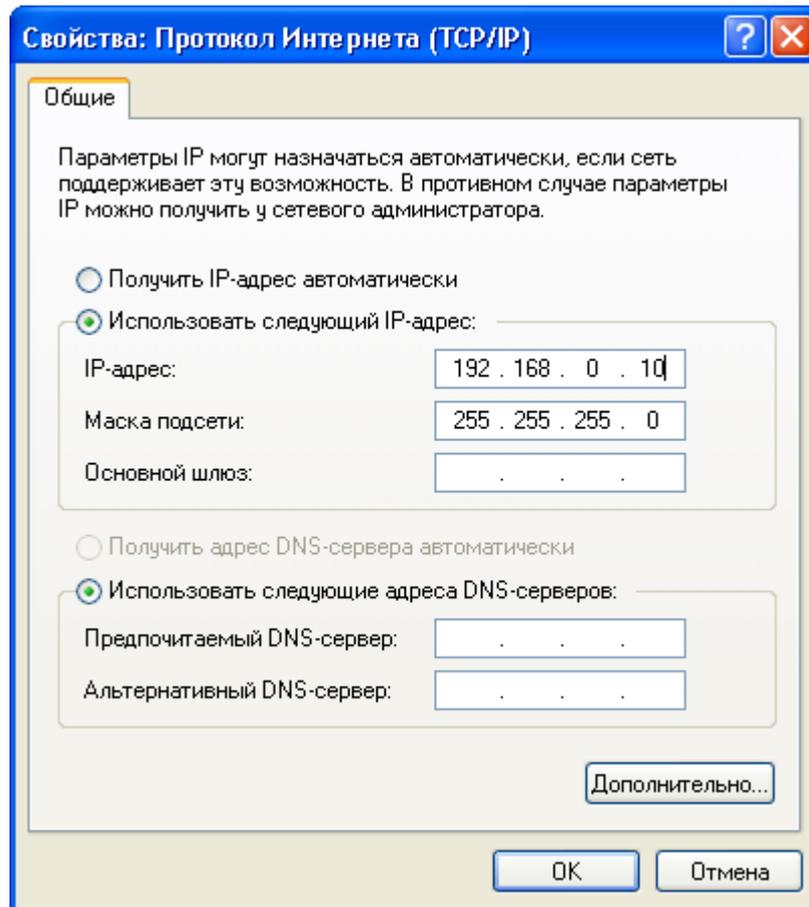
5.

"

"

(TCP/IP)"

"



6. IP-адрес: 192.168.0.10, Маска подсети: 255.255.255.0, Основной шлюз: . . .
7. "OK"
- 8.

5.2.1.2

IP-адрес: ()
 Маска подсети: ()
 Основной шлюз: ()
 Предпочитаемый DNS-сервер: ()
 Альтернативный DNS-сервер: ()
 " " : "



IP-

IP-

IP-

IP-

Axis

Axis IP Utility:

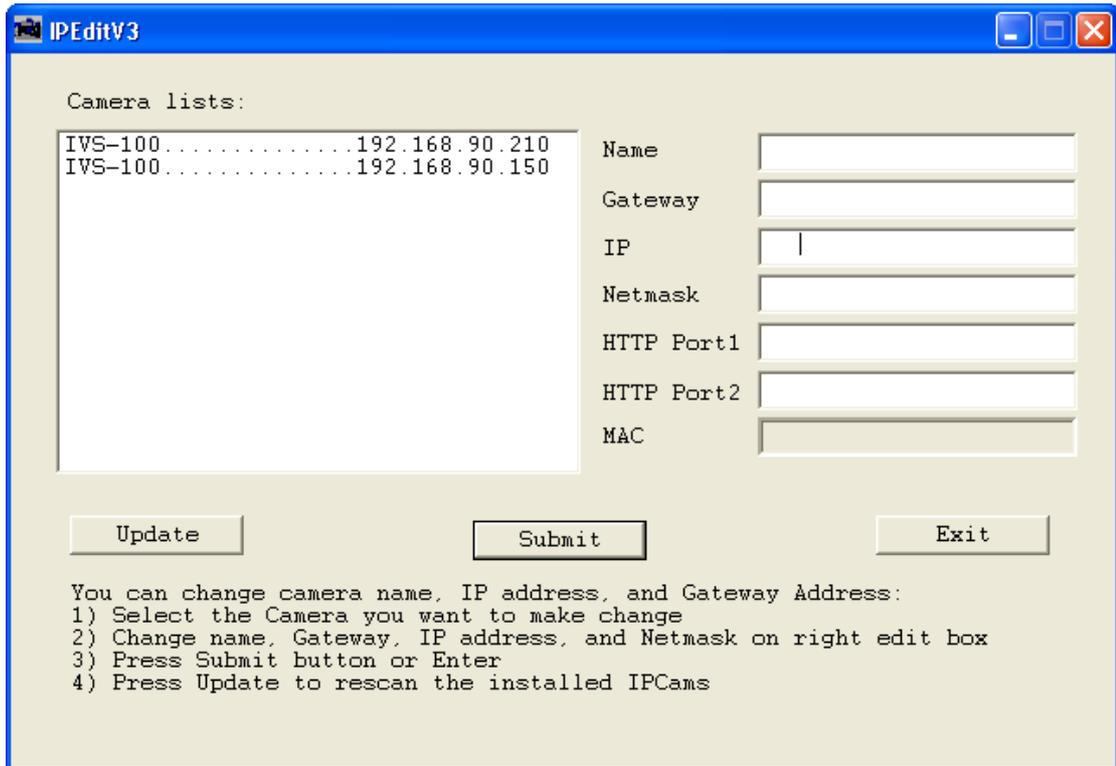
The screenshot shows the "AXIS IP Utility" window. It has a menu bar with "Server", "View", and "Help". Below the menu bar are several icons, including "IP", a home icon, a question mark, and a globe. The main area contains a table with the following data:

Name	IP address	Serial number
AXIS 210A - 00408C784722	192.168.0.210	00408C784722
AXIS 210A - 00408C784722	192.168.0.210	00408C784722
AXIS 210A - 00408C784722	192.168.0.210	00408C784722
AXIS 210A - 00408C784722	192.168.0.210	00408C784722
AXIS 210A - 00408C784722	192.168.0.210	00408C784722
AXIS 210A - 00408C784722	192.168.0.210	00408C784722
AXIS 210A - 00408C784722	192.168.0.210	00408C784722
AXIS 210A - 00408C784722	192.168.0.210	00408C784722
AXIS 210A - 00408C784722	192.168.0.210	00408C784722
AXIS 210A - 00408C784722	192.168.0.210	00408C784722

At the bottom of the window, it says "Workstation interface 1 (192.168.0.38)".

Planet, Aviosys

IPEdit:



IP-



1. IP

192.168.0.10,
192.168.0.11, 192.168.0.12, . . .

2.

"DigitalRing"

3.

(50 60).

4.

MotionJPEG MPEG2/4

MotionJPEG JPEG.

JPEG/

5.

- 640x480 , , 1280x1024
16
320x240 () .
6. , , ,
"DigitalRing", . .
7. !

5.2.2

5.2.2.1



1. "DigitalRing Multivisor"

2.

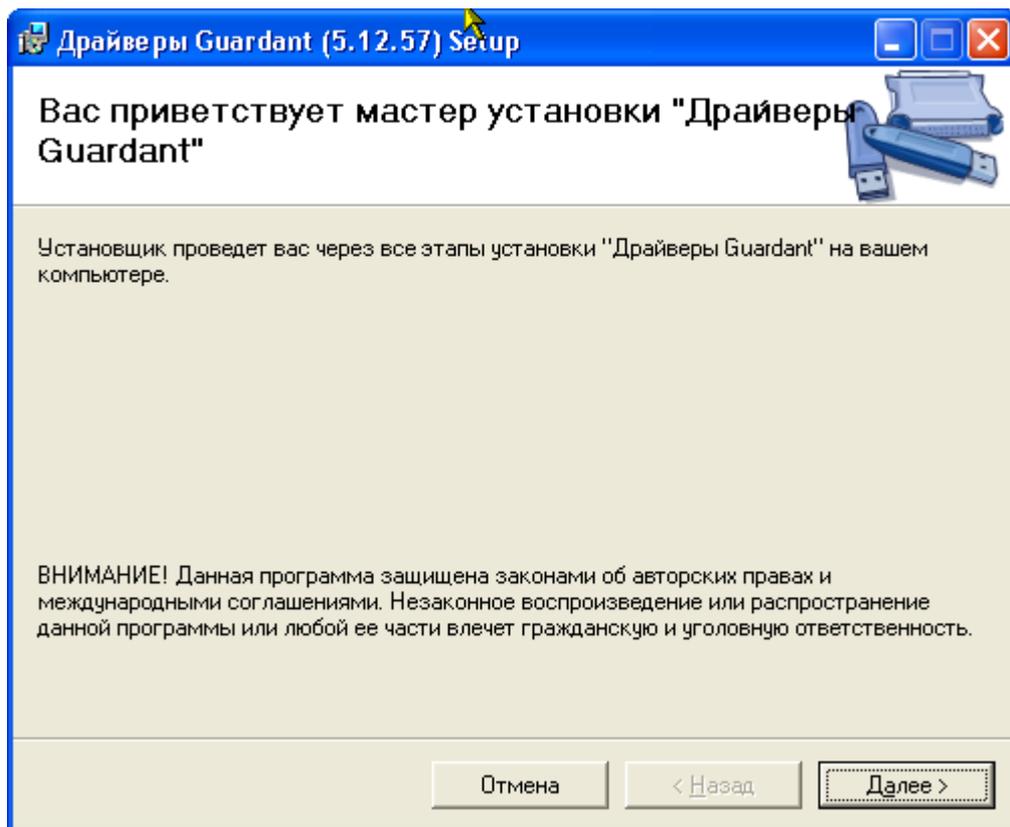
3.

autorun.exe.

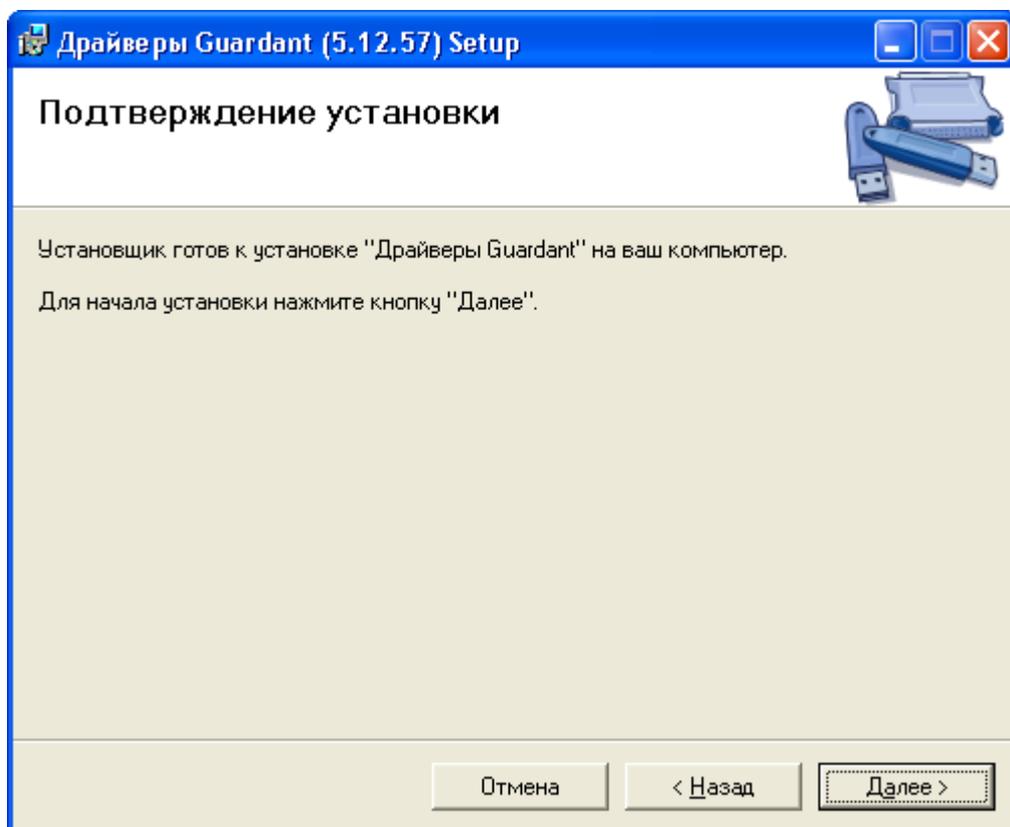
4. "

5.

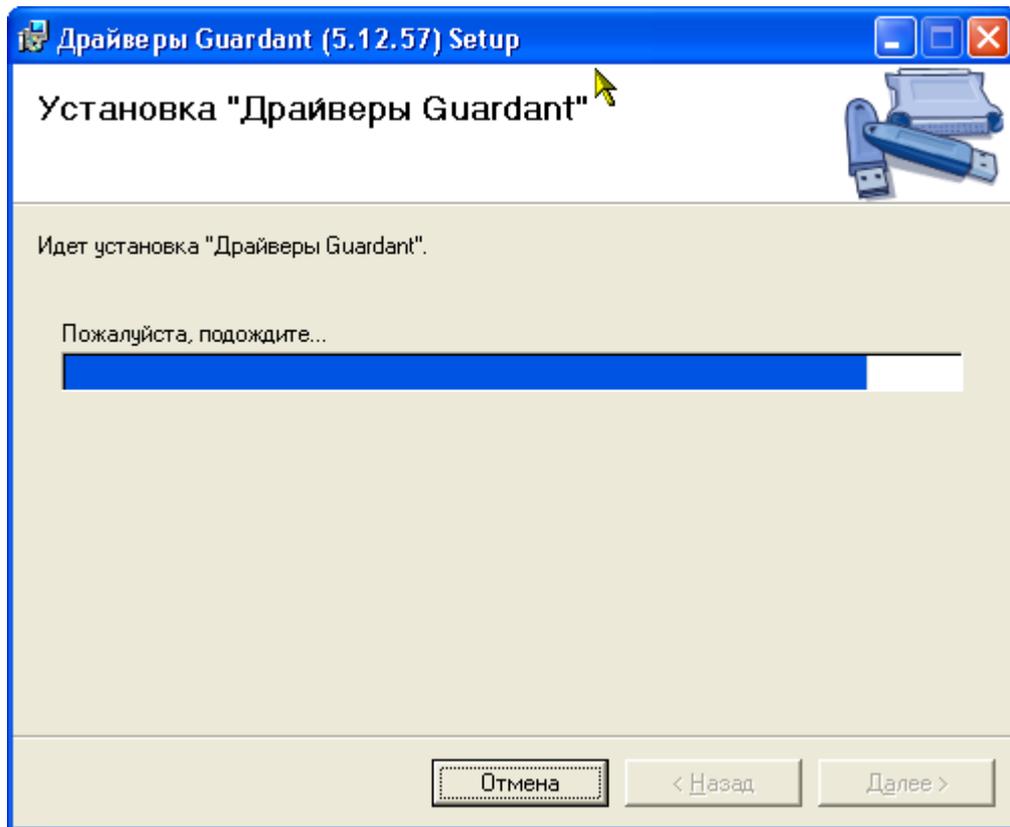
Windows Vista



6.

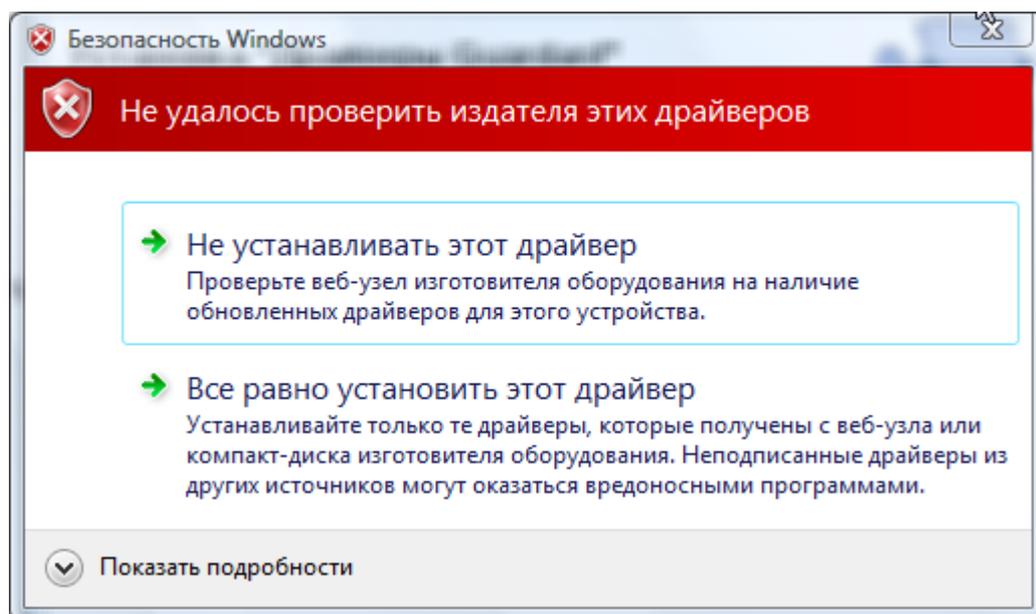


7. " " "

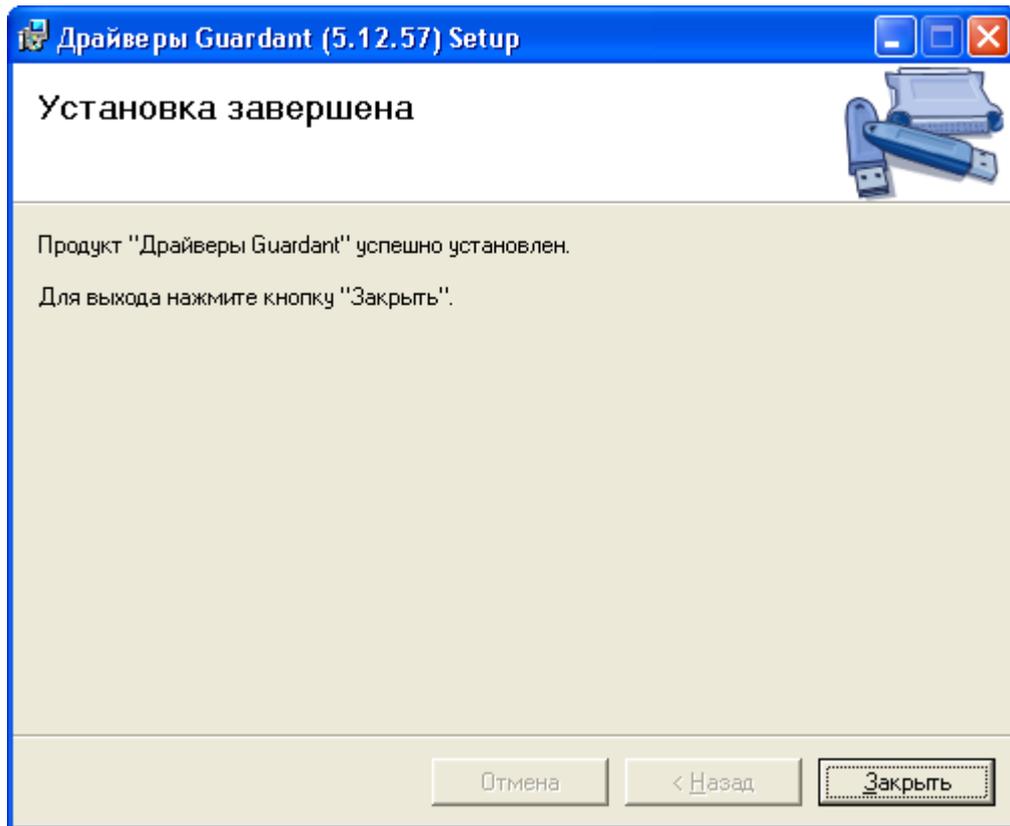


Windows Vista

" " "



8. " " "



- 9. USB

10-14

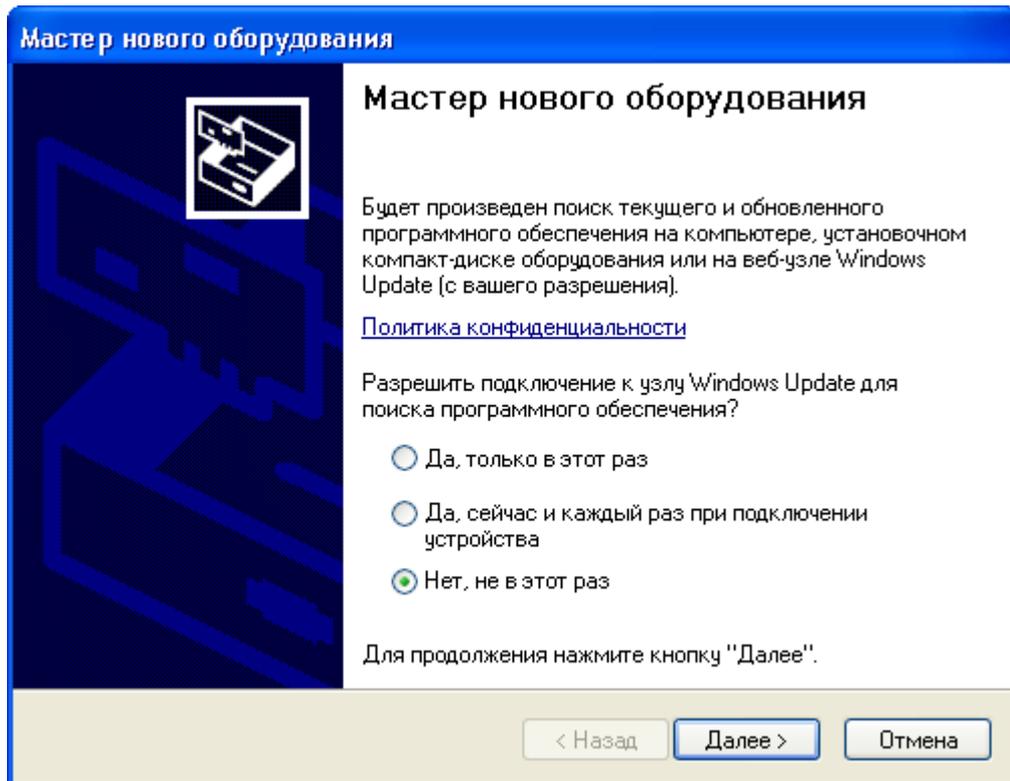
XP/2003.

USB-

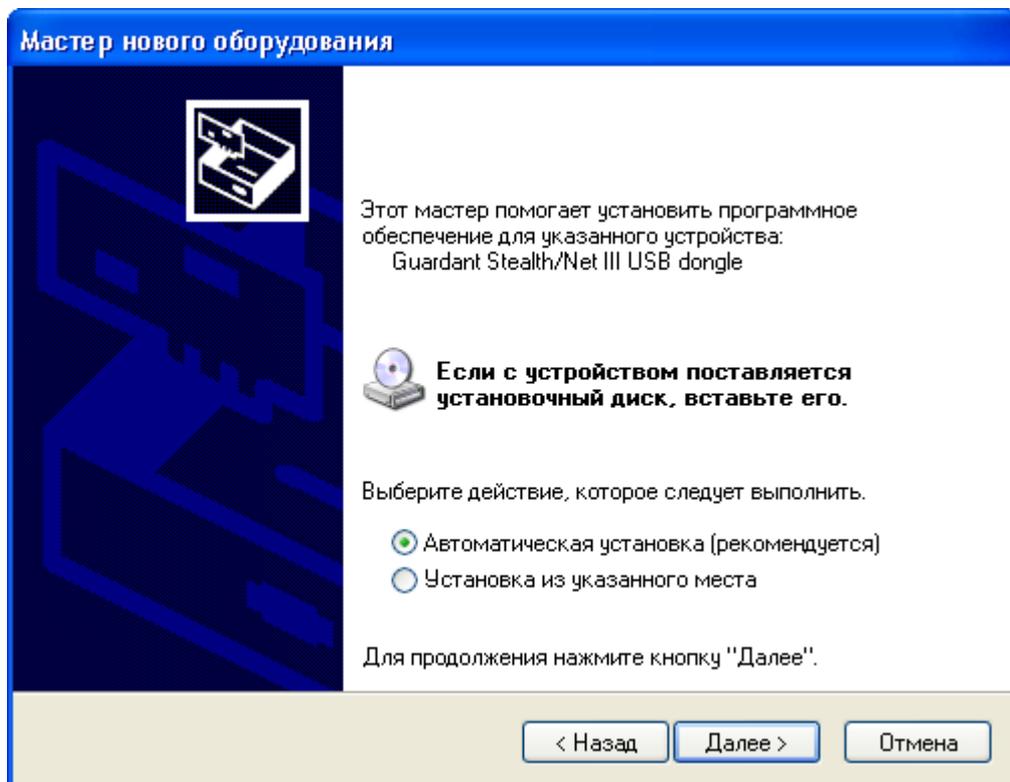
OC Windows

- 10.

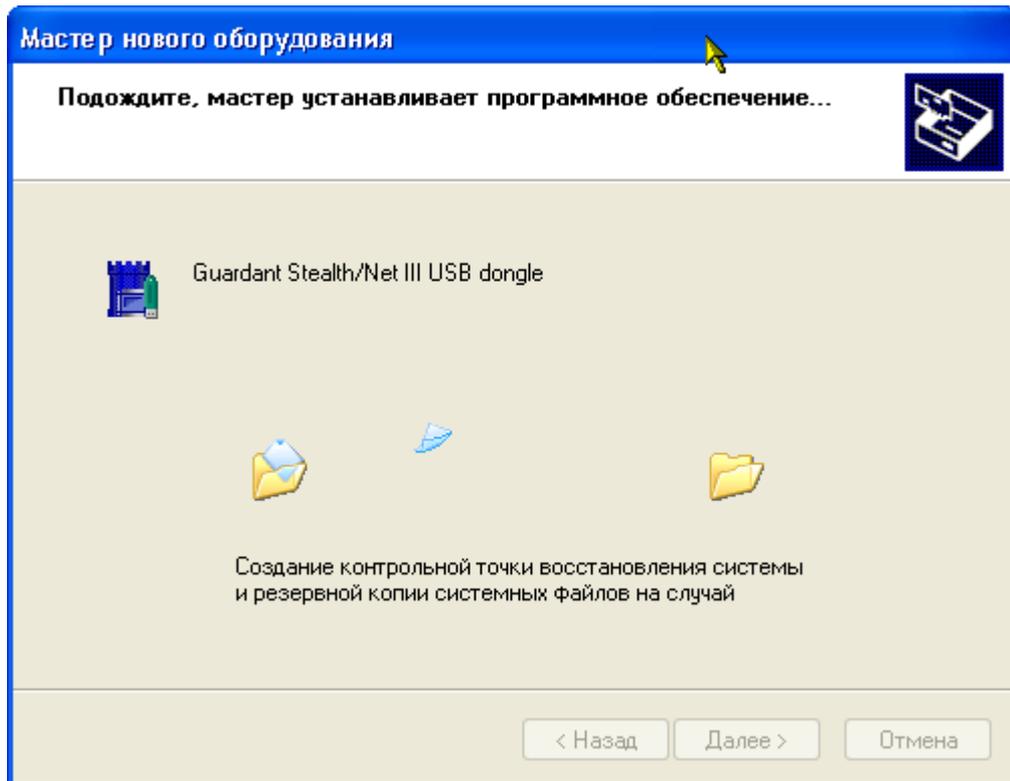
USB



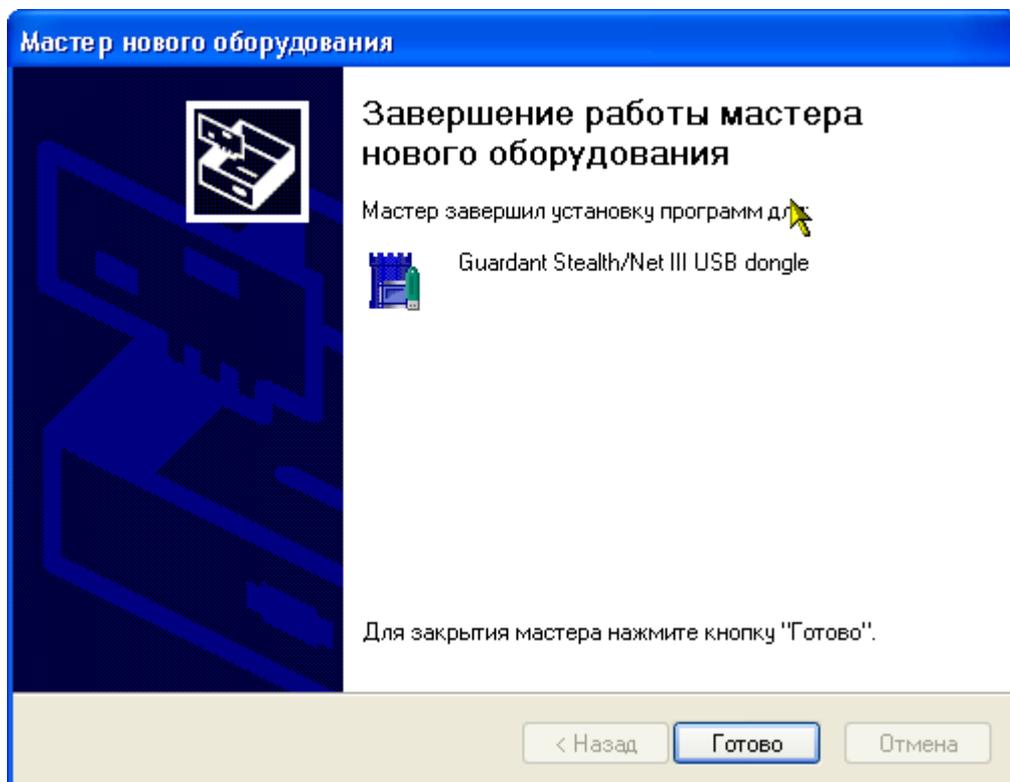
➤ . 11.



➤ . 12.



➤ . 13.



➤ . 14. , USB

Windows.

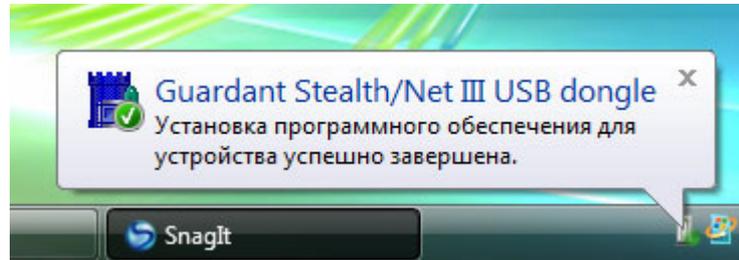
15

USB-

OC Windows VISTA.

15.

Windows Vista



USB

Windows.

5.2.2.2

DigitalRing Multivisor

1. "DigitalRing Multivisor"

2.

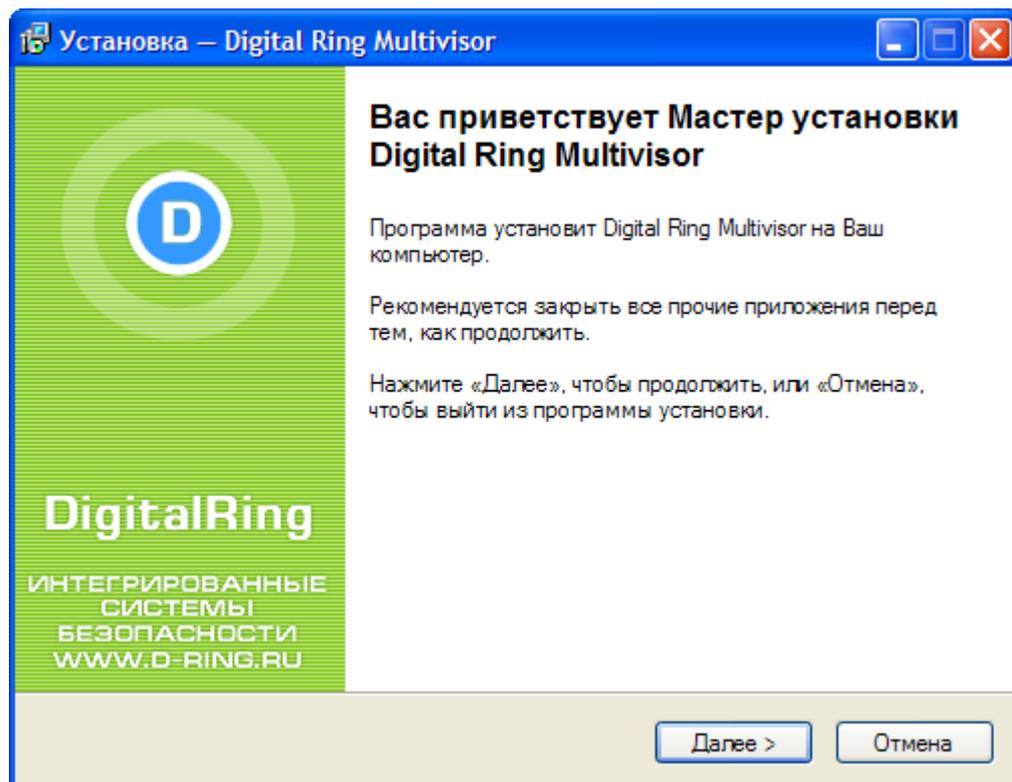
3.

autorun.exe.

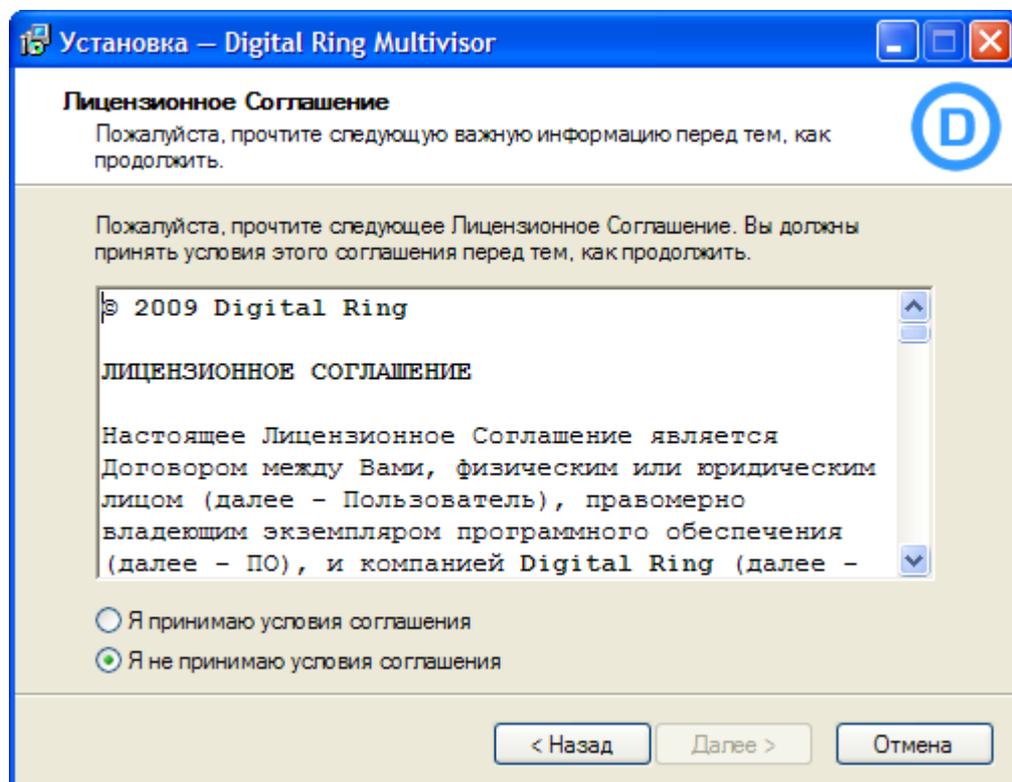
4. "Multivisor".

5.

Windows Vista



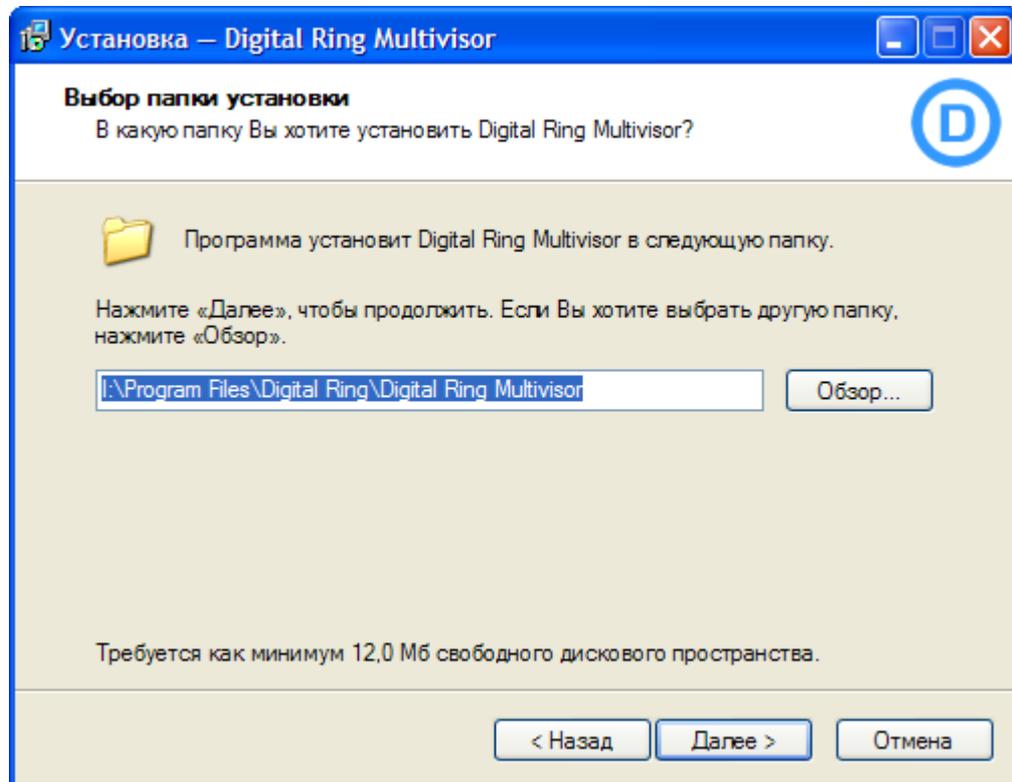
6. "DigitalRing".



7.

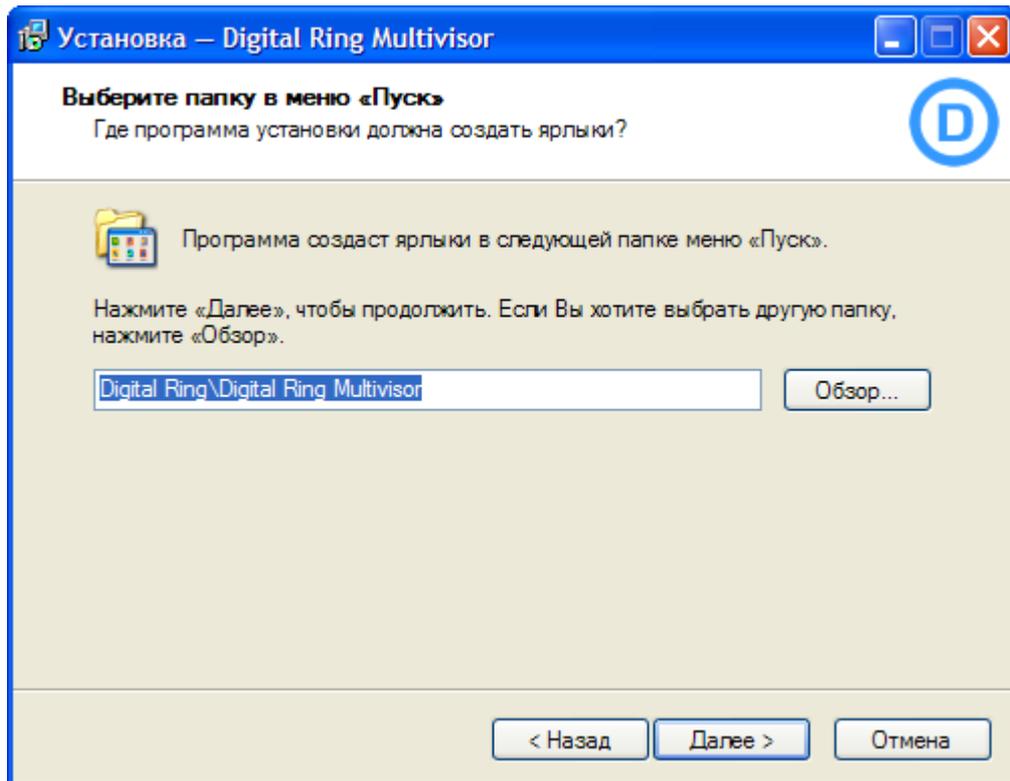
"DigitalRing".

Program Files

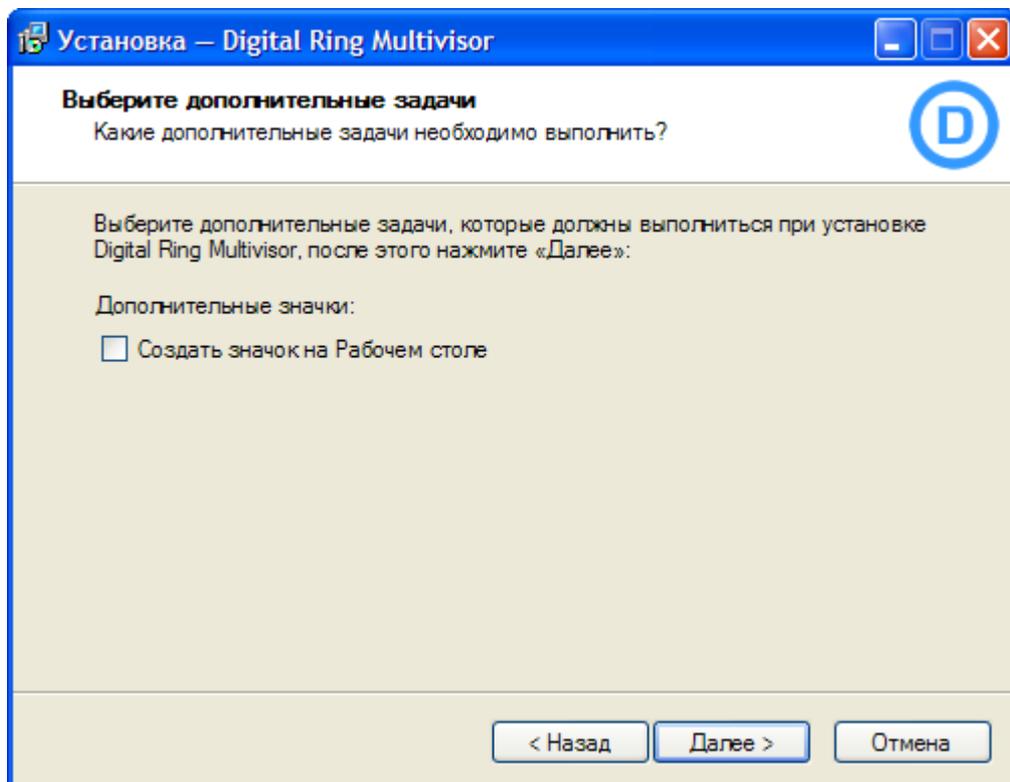


8.

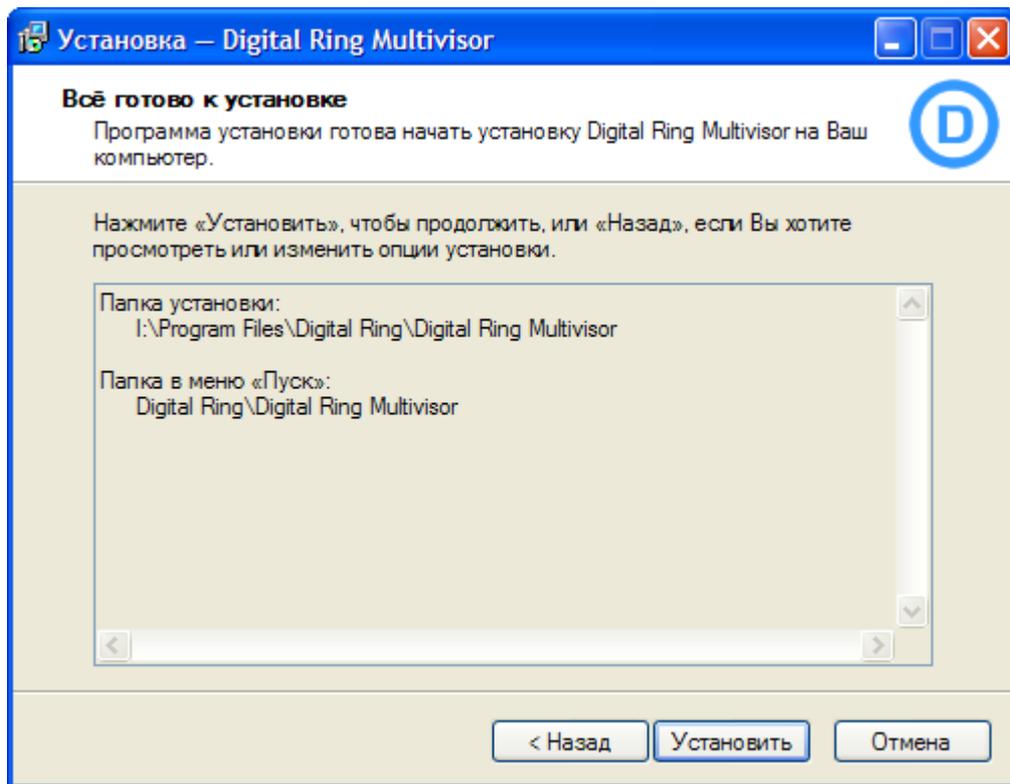
("Start" --> "All programs")



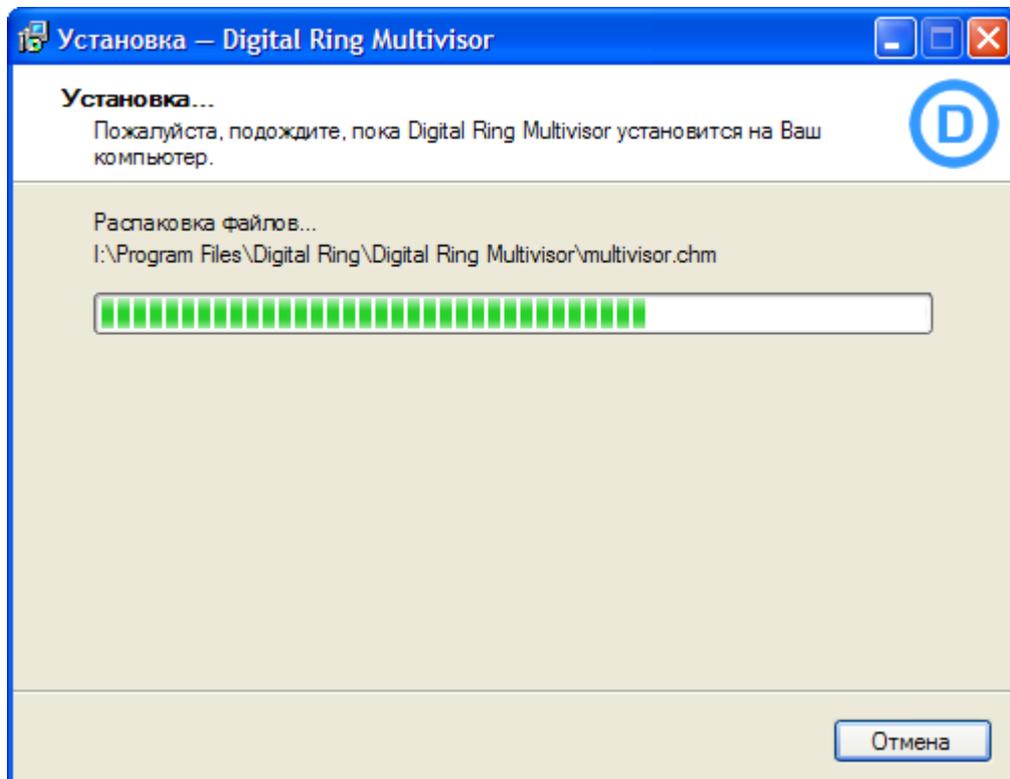
9.



10.



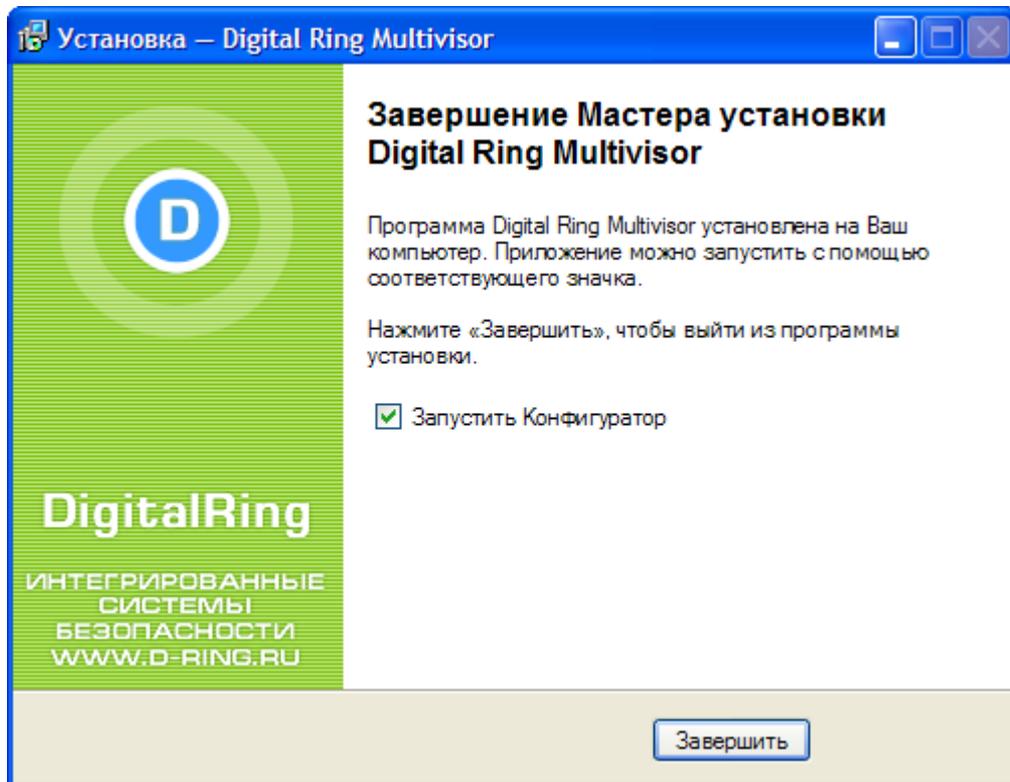
11. " " -



12.

Configurator"

"Multivisor"



5.3

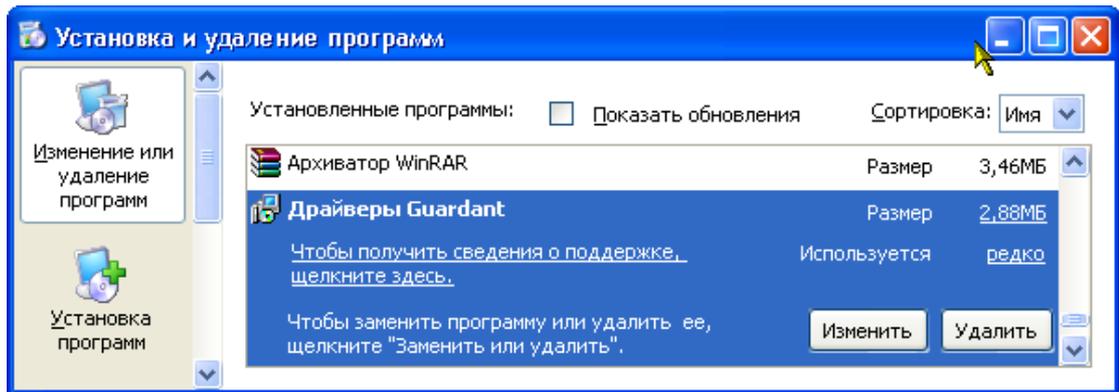
5.3.1

1.

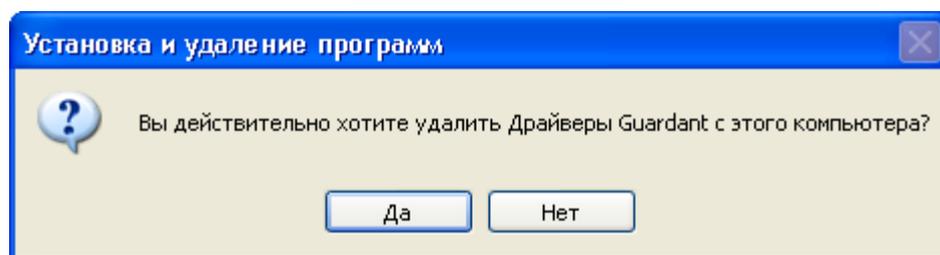
Guardant".
">"

">"

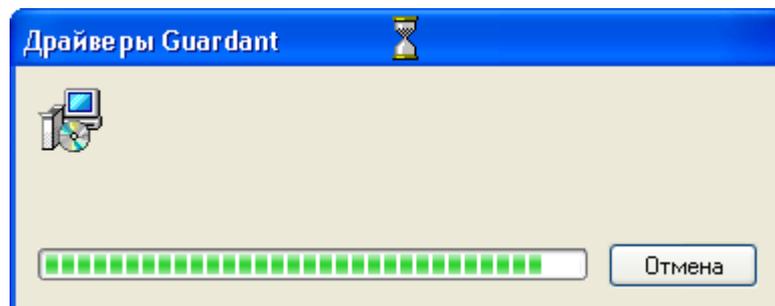
">"



2. " " .



3. .

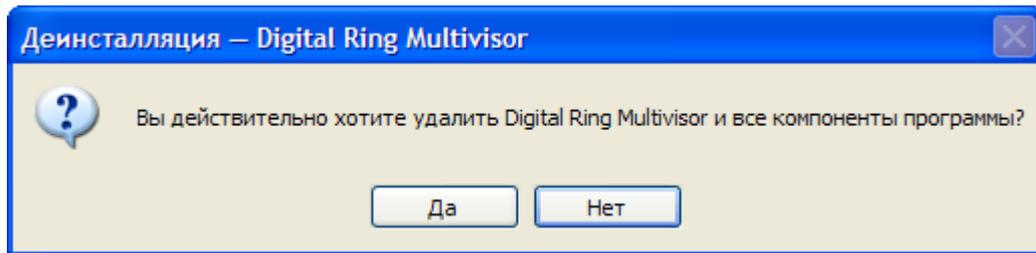


5.3.2

DigitalRing Multivisor

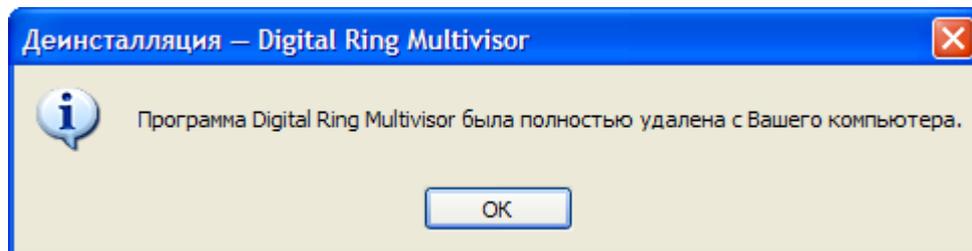
1. "DigitalRing Multivisor"
" > " > "DigitalRing" > "DigitalRing Multivisor",
"DigitalRing Multivisor".

2. " "



3.

4.



5.4

DigitalRing
"DigitalRing Multivisor",

: <http://www.d-ring.ru/>

6

Multivisor

DigitalRing

6.1

6.1.1

"DigitalRing Multivisor"
Windows.

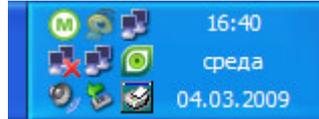
" "

USB

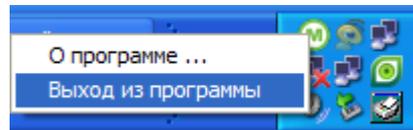
!

"DigitalRing Multivisor" (Start) >
 " (All Programs) > "DigitalRing" > DigitalRingMultivisor.

"DigitalRing Multivisor".



Multivisor



"DigitalRing Multivisor" (Start) >
 "DigitalRing Multivisor Configurator" (DigitalRing Multivisor). DigitalRing

"DigitalRing Multivisor Configurator" (Start) >
 " (All Programs) > "DigitalRing" > DigitalRingMultivisor Configurator.

"DigitalRing Multivisor"

6.1.2

Windows

"DigitalRing Multivisor"

6.1.2.1

Windows

Windows.

```
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon
:
AutoAdminLogon - 1
DefaultUserName -
DefaultPassword -
```

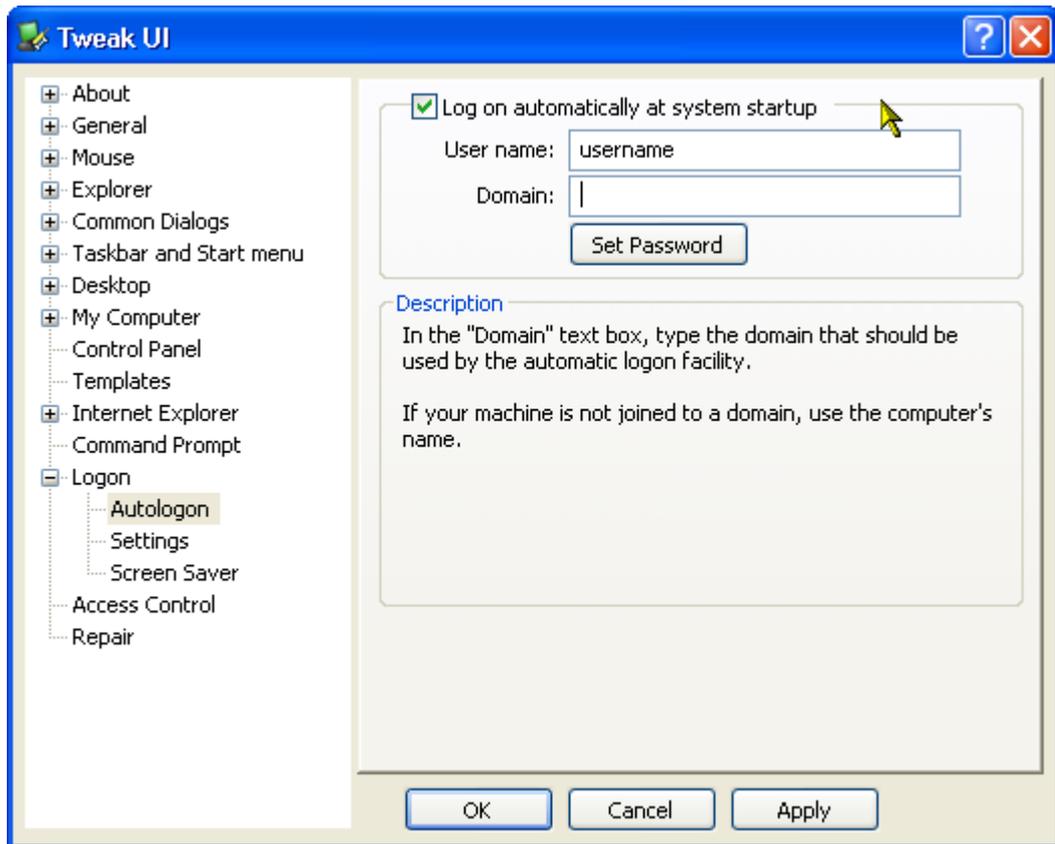
AutoAdminLogon 0,

(StartUp) :

*.reg

```
REGEDIT4
[HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon]
"AutoAdminLogon"="1"
```

Microsoft TweakUI,
UTILS.



6.1.2.2

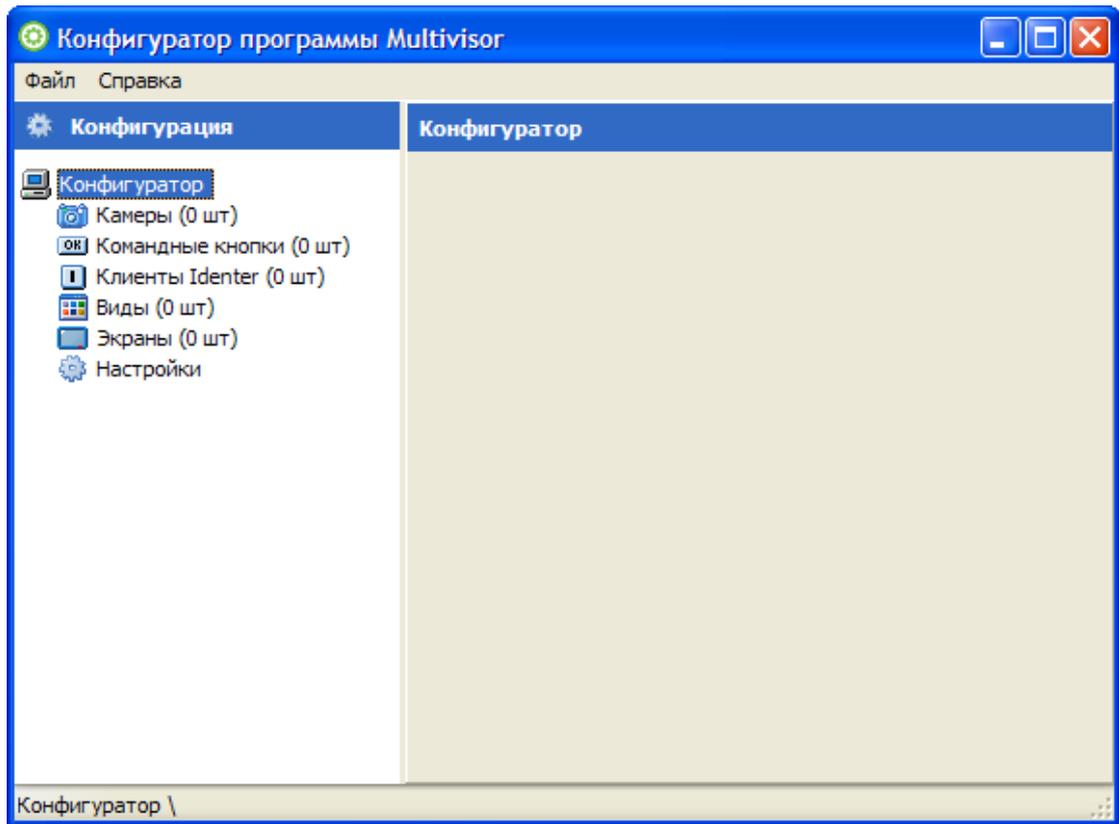
Securika Multivisor

1.

"DigitalRing Multivisor" (StartUp) - " (Start - Programs) mvisor.exe "C:\Program Files\DigitalRing\DigitalRing Multivisor\mvisor.exe").

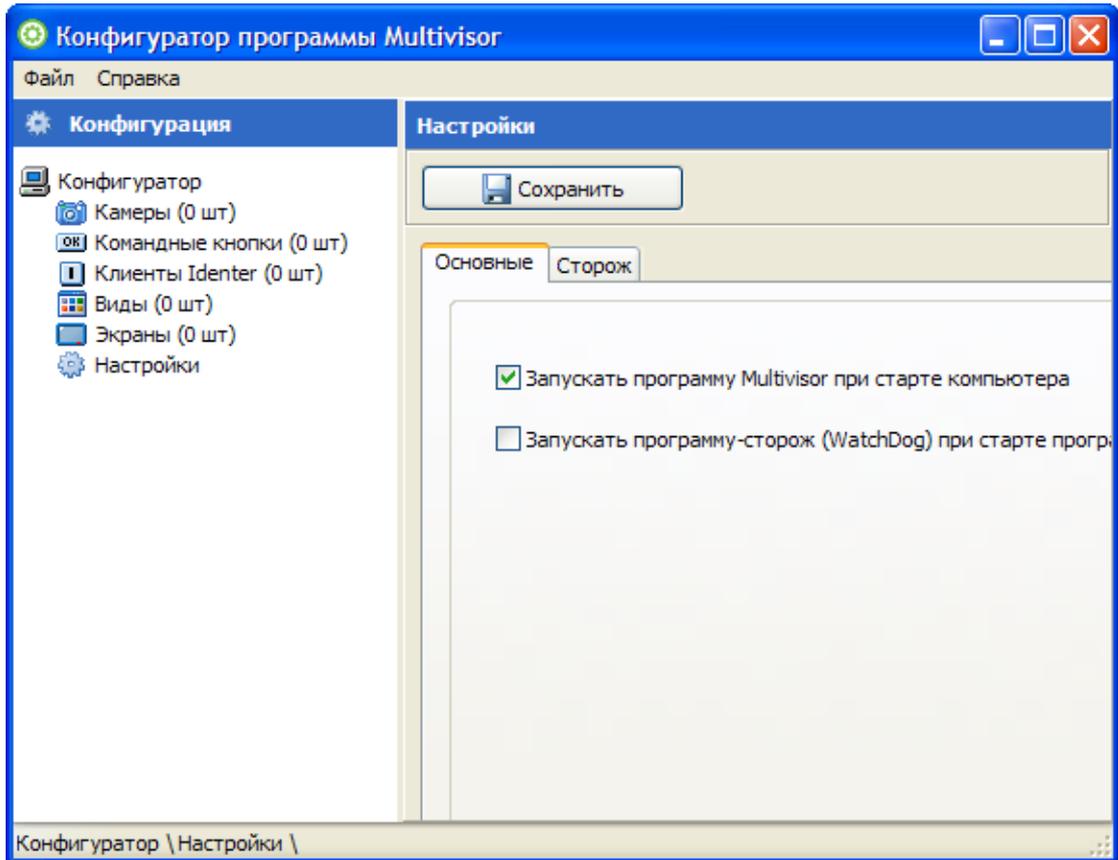
2.

Multivisor: " (Start) --> " (All Programs) --> "DigitalRing" --> "DigitalRing Multivisor Configurator".



Multivisor

."."."."



3.

"DigitalRing Multivisor"

" (Explorer).

"DigitalRing Multivisor"

" (Explorer),
Windows.

:

```
HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows NT\CurrentVersion\Winlogon
```

```
Shell - cterm.exe,  
: "C:\Program Files\DigitalRing\DigitalRing Multivisor\mvisor.exe"
```

```
+Esc, ( "regedit") Windows, Ctrl+Shift  
Shell
```

"Explorer".

Windows

" (StartUP)"
RunOnce!

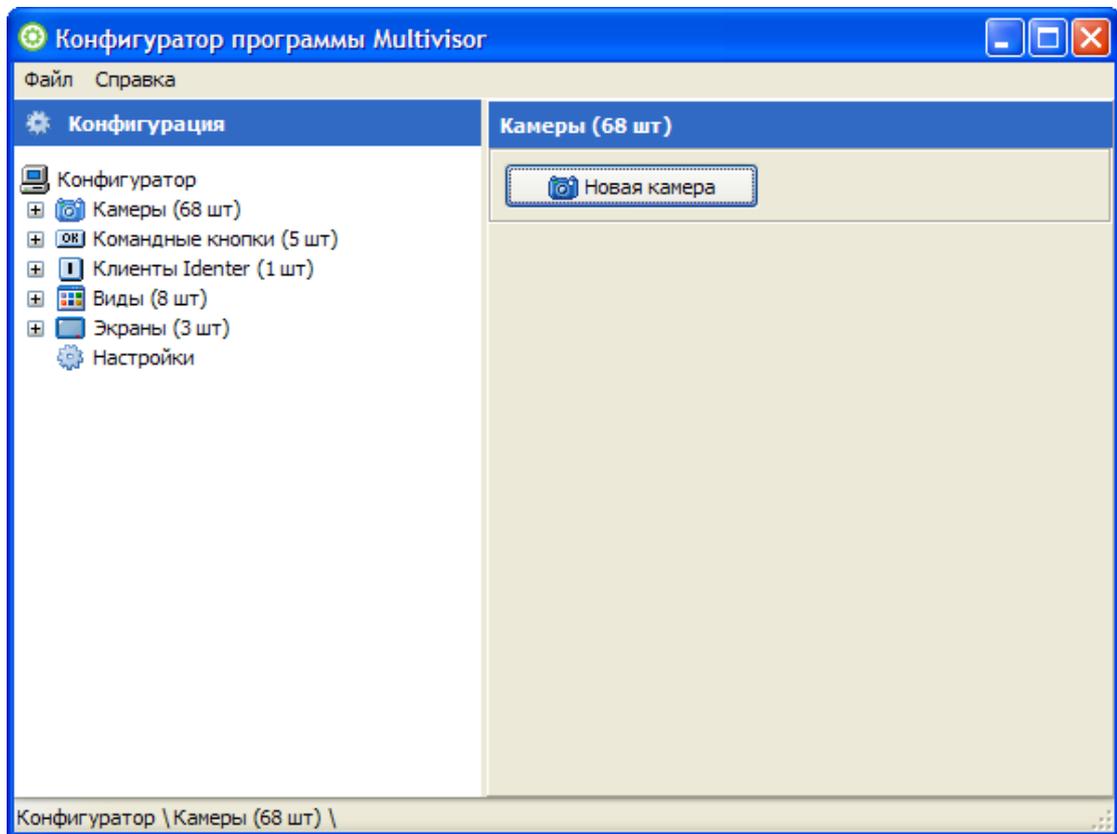
(Run

6.2 DigitalRing Multivisor

"DigitalRing Multivisor"
DigitalRing Multivisor Configurator" (. " DigitalRing
Multivisor").

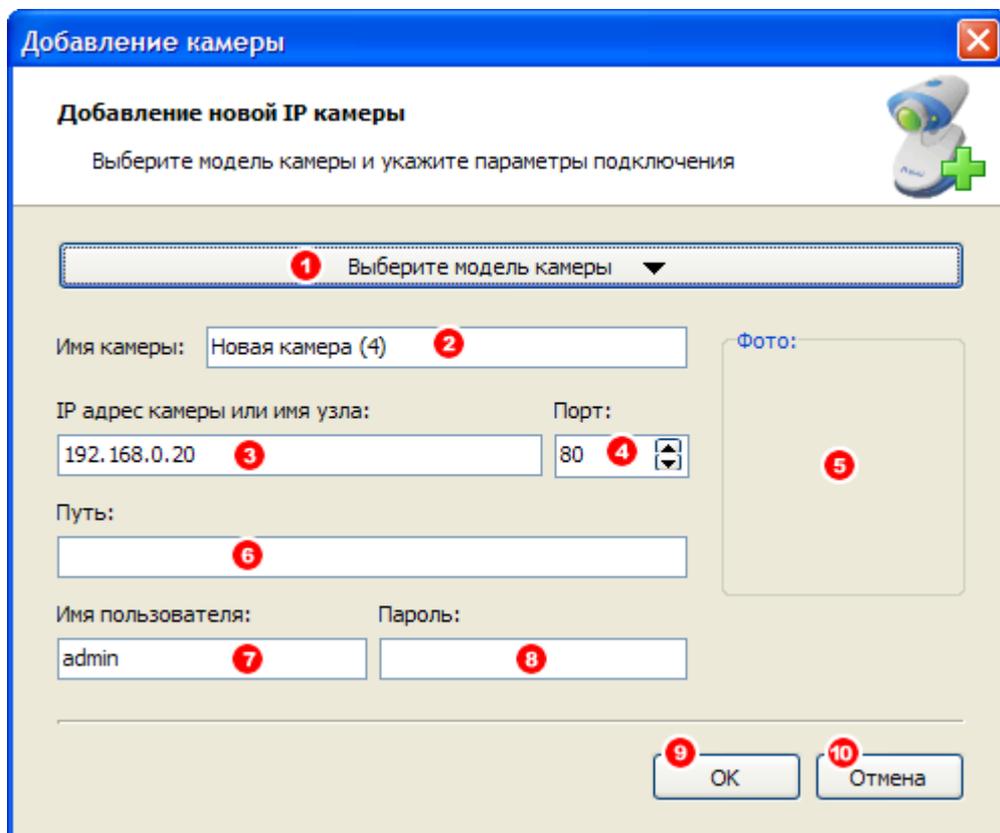
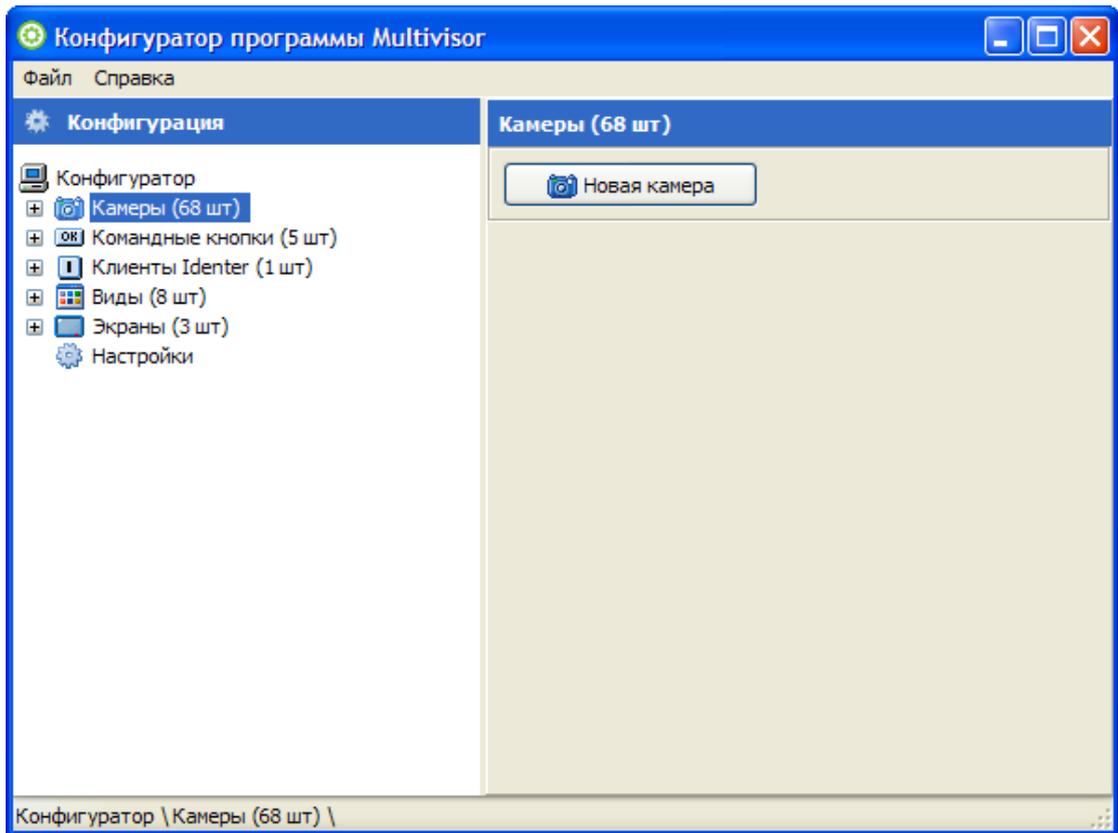
"DigitalRing Multivisor Configurator" " (Start -->
" (All Programs) --> "DigitalRing" --> "DigitalRing Multivisor Configurator"

6.2.1



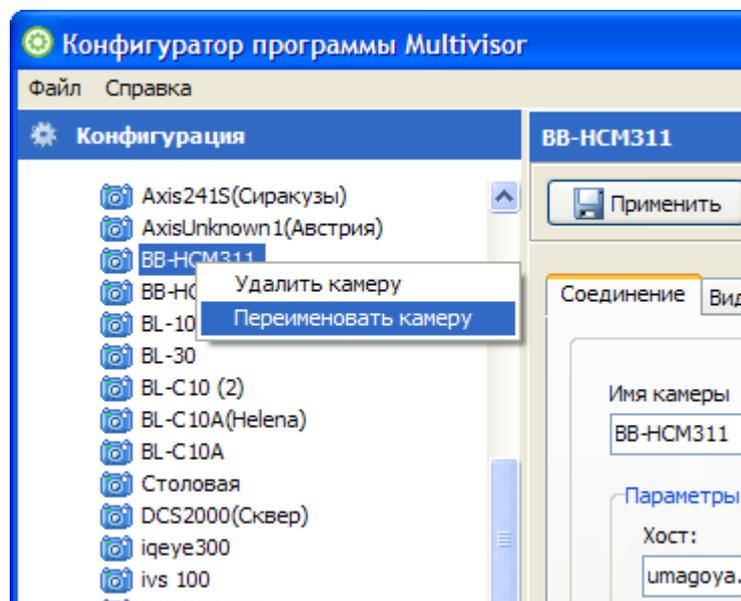
6.2.1.1

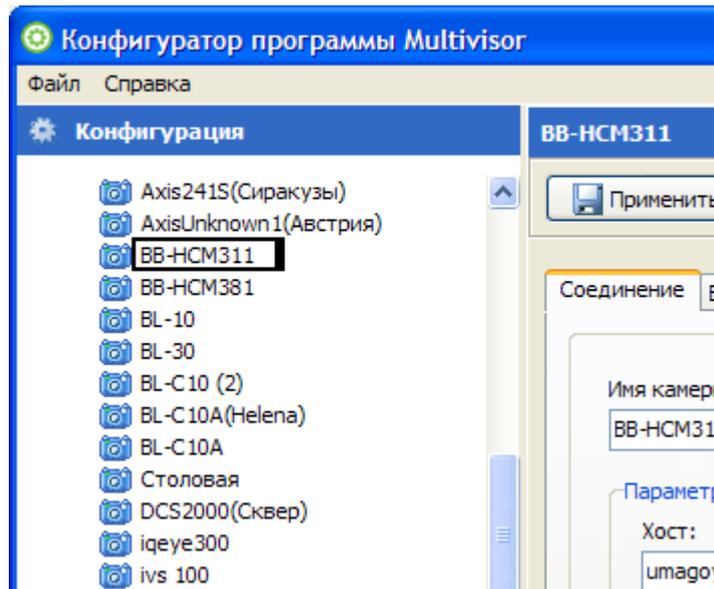
1. "IP- " " " ,
" " .



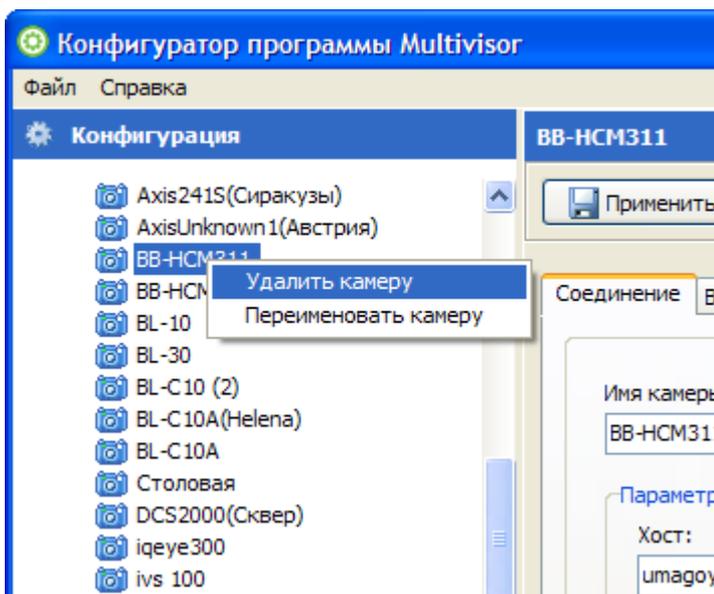
- 2. " " (2).
- 3. IP- (1). (5)
- 4. IP- (3). IP- mycamera12345.ru. http:// , www. !.
- 5. (4). 80. 88, 81, 8088, 8080, 8081.
- 6. (7) (8)
- 7. (6).
- 8. "OK" (9) " (10)

6.2.1.2





6.2.1.3



"Delete"

6.2.1.4

6.2.1.4.1

- >> **(1)** - Имя камеры, например, "arecont2".
- >> **(2)** - IP-адрес камеры, например, "192.168.0.10".
 !. IP-адреса: 192.168.0.10, 192.168.0.11, ..., 192.168.0.254.
- >> **(3)** - Порт камеры, например, "80".
 : 88, 81, 8088, 8080, 8081.
- >> **URI (4)** - Адрес ресурса камеры, например, "http://www.mycamera12345.ru/image?res=full&x0=0&y0=0&x1=1".
- IP-адрес камеры, например, "192.168.0.10".
 4- "Axis241Q".
 : /axis-cgi/mjpg/video.cgi?camera=1.
- >> **HTTP (5)** - Версия протокола: HTTP 1.0, 1.1, 1.1.

1.0.

(6) - (1/1000) 5 10000 0.1 FPS.

7 FPS

WEB-)

IP- (5)

Axis

: /axis-cgi/mjpg/video.cgi?fps=7.

(

(7) - 30 7 100

23

30 30

100 (6))

(MotionJPEG), -

HTTP (8) - (11) (12)

Basic HTTP-

(9) -

(10) - " HTTP-

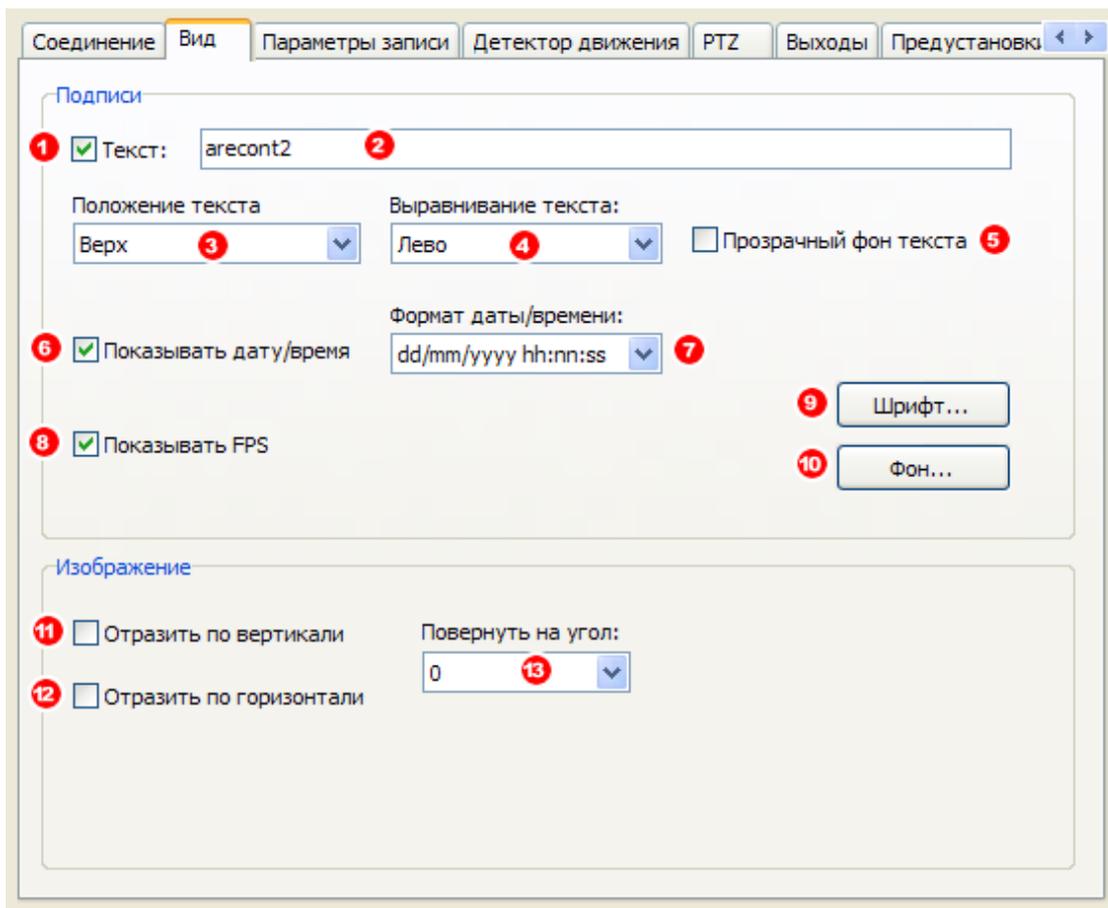
"

"

- ▶ (11) -
- ▶ (12) -
- ▶ Proxy- (13) -
- ▶ Proxy (15) - IP-
- ▶ Proxy (16) - (, 3128 8080).
- ▶ Proxy (14) -
Basic Proxy-
- ▶ Proxy (17) -
- ▶ Proxy (18) -
" "

6.2.1.4.2

" ":



✖ **(1)** - . **(2).**

():

- {HOST} - IP- ;
- {PORT} - ;
- {FPS} - ;
- {DATE} - ;
- {TIME} - ;
- {NOW} - ;
- {FRAMESIZE} - ;
- {MOTIONTIME} - , ;
- {LASTMOTIONTIME} - ;
- {USERNAME} - ;
- {PASSWORD} - ;

- {PATH} - ;
- {FRAMELEN} - ;
- {MODE} - (JPEG/MotionJPEG/)
- {FRAMESCOUNT} - ;
- {TRAF} - ;
- {MOTION} - ;
- {LASTERR} - ;

☒ (3) - (/)
).

☒ (4) -
(/ /).

☒ (5) -

☒ / (6) - ,

☒ / (7) - .

☒ **FPS (8) -**

☒ ... (9) - .

☒ ... (10) - (,)
).

☒ (11) - (!). ,

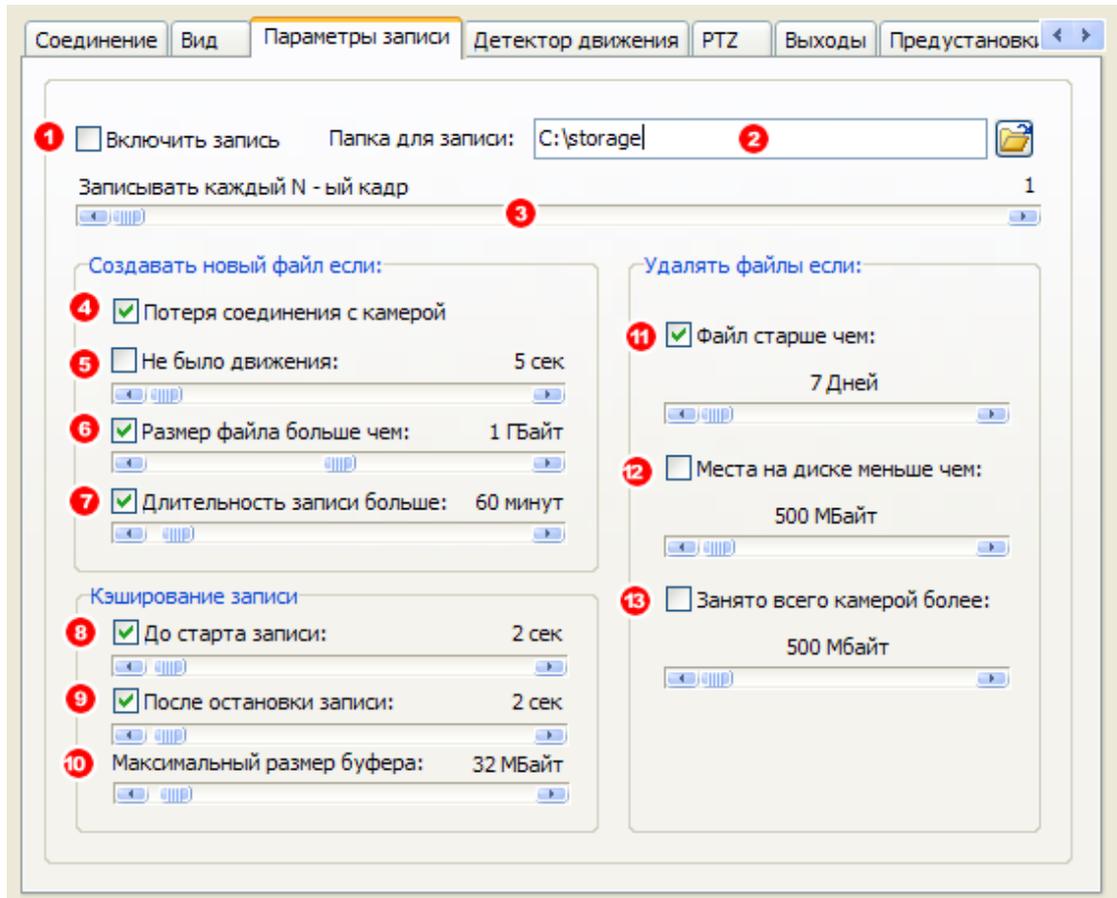
☒ (12) - (!). ,

☒ (13) - 90
(!). ,

" "

6.2.1.4.3

Multivisor



(1) - /



(2) -



N- N- (3) -

N-

7

3.5

:

() .



(4) -



(5) -



(6) -

FAT -

. NTFS

2

, CD DVD



(7) -

60



(8) -



(9) -



(10) -



(11) -



(12) -



(13) -

" "

6.2.1.4.4



6.2.1.4.4.3

"

";

“ ” (9).

▶ (3)

2 4%,

“ ” (8)

()

()

▶ (6)

()

- 1.5%.

▶ (7)

()

80%.

▶ (12) (10) (11)

“ ”

“ ” “ ”

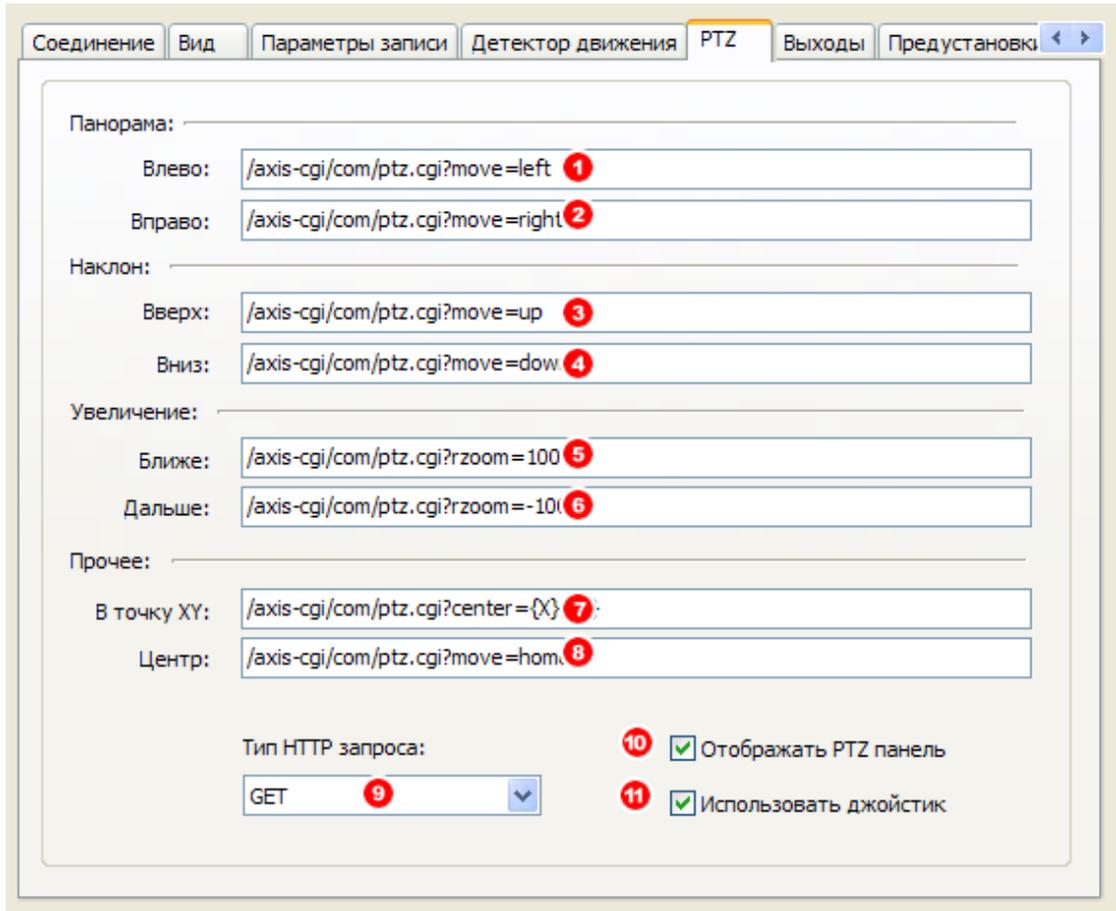
“ ” “ ”

6.2.1.4.5

/ (PTZ)

IP-

"PTZ":



HTTP

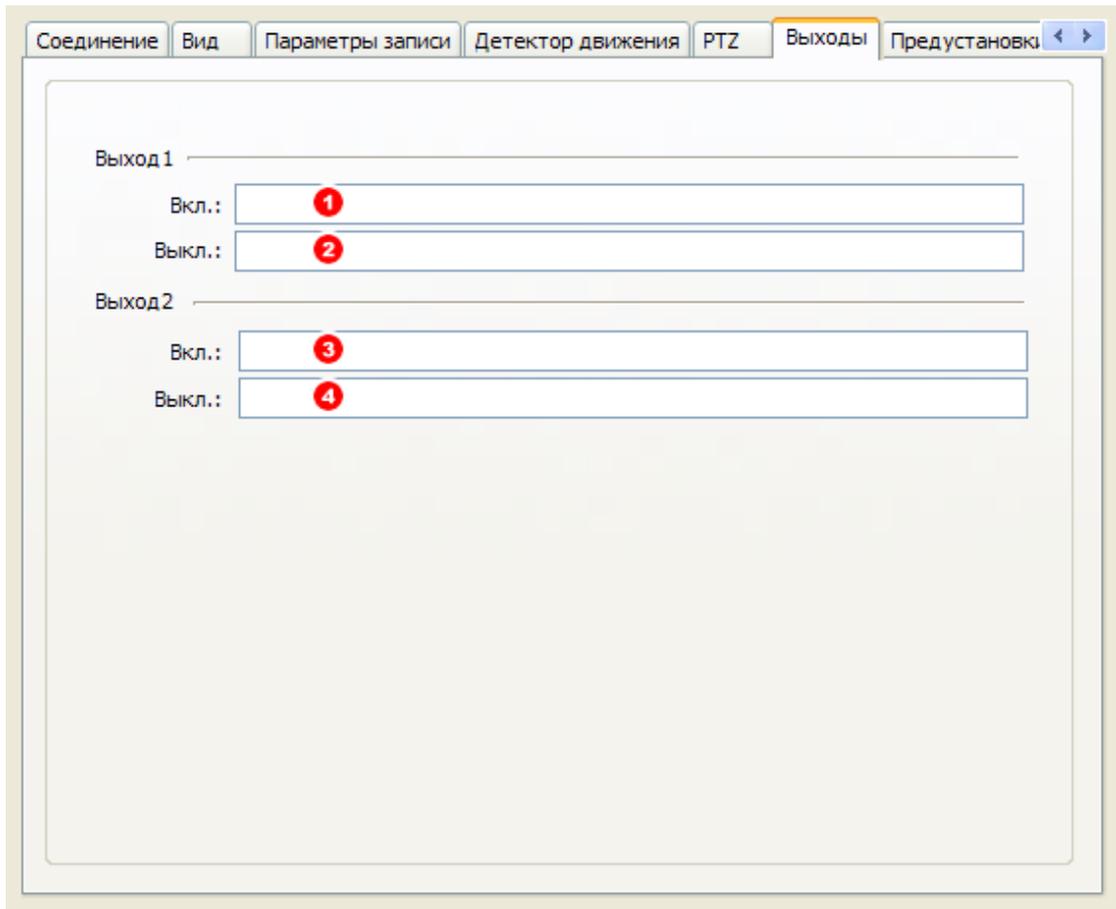
DigitalRing Monocle,

- » (1) -
- » (2) -
- » (3) -
- » (4) -
- » (5) - (ZOOM IN, ZOOM TELE)
- » (6) - (ZOOM OUT, ZOOM WIDE)
- » XY (7) - X, Y
- » (8) -
- » (9) - HTTP- IP-
 (IP- , Planet ICA-100 HTTP GET) HTTP POST

GET, . . .
"?" "&".
Axis: /axis-cgi/com/ptz.cgi?camera=1&move=left -
1 .
POST- GET-
PTZ- (10) -
IP- (11) -
(C Z).
Windows.
" "

6.2.1.4.6

IP-
HTTP
1-2
:
":



DigitalRing Monocle

HTTP

- ▶ 1 (1) -
- ▶ 1 (2) -
- ▶ 2 (3) -
- ▶ 2 (4) -

- 1.
- 1.
- 2.
- 2.

" "

6.2.1.4.7

(PTZ),

(Presets) -

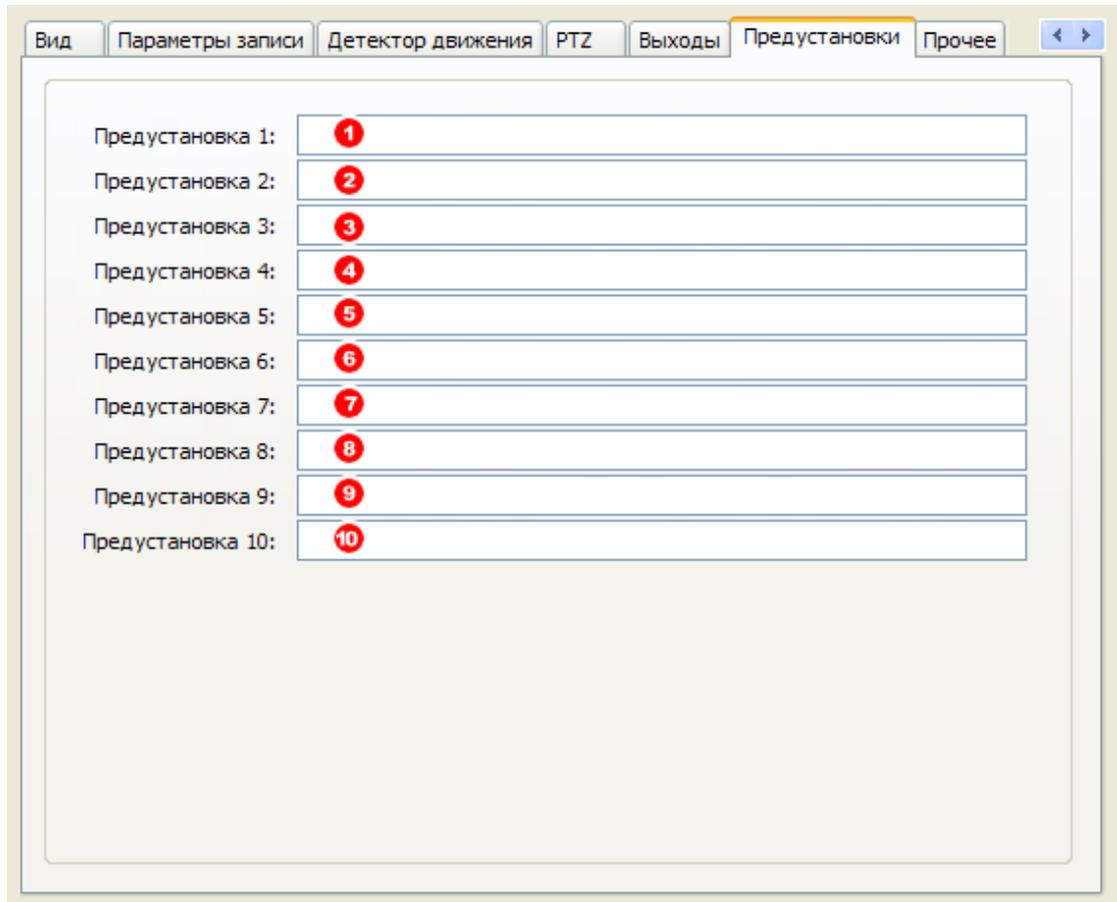
DigitalRing Monocle

HTTP

10

Web-

HTTP



Axis.

1,2,3,4.

- 1 (1)** - ().
- 2 (2)** - ().
- 3 (3)** - ().
- 4 (4)** - ().
- 5 (5)** - ().

6 (6) -

7 (7) -

8 (8) -

9 (9) -

10 (10) -

" "

6.2.1.4.8 (/)

":

The screenshot shows the 'Прочее' (Miscellaneous) configuration tab in the DigitalRing Multivisor software. The interface is organized into sections with various settings:

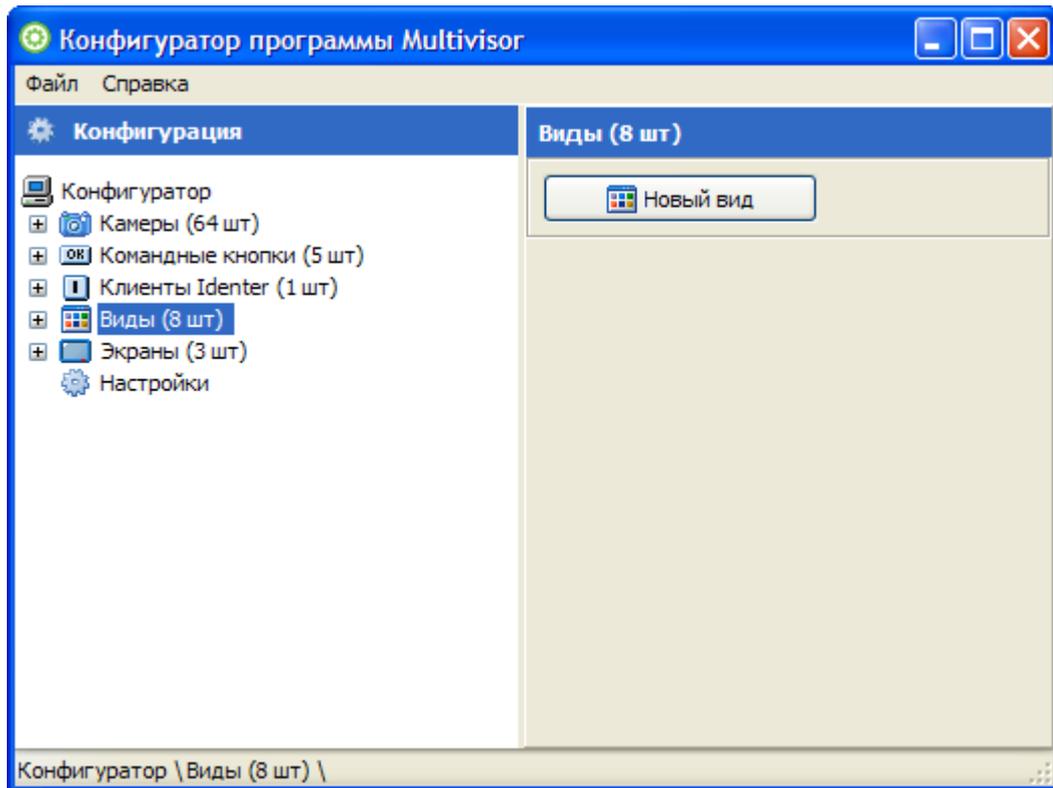
- Фокус (Focus):**
 - Ближе: (1) - Input field for focus closer.
 - Дальше: (2) - Input field for focus further.
 - Авто: (3) - Input field for auto focus.
- Диафрагма (Diaphragm):**
 - Больше: (4) - Input field for larger diaphragm.
 - Меньше: (5) - Input field for smaller diaphragm.
 - Авто: (6) - Input field for auto diaphragm.
- Режим (Mode):**
 - День: (7) - Input field for Day mode.
 - Ночь: (8) - Input field for Night mode.
 - Авто: (9) - Input field for Auto mode.
- Перезагрузка: (10)** - Input field for restart.

At the bottom of the page, there is a partially visible text: ().

- ▶ (1) - .
- ▶ (2) - .
- ▶ (3) -
(AUTOFOCUS).
- ▶ (4) - ().
- ▶ (5) - ().
- ▶ (6) -
(AUTOIRIS).
- ▶ (7) - .
- ▶ (8) - .
- ▶ (9) - / .
- ▶ (10) - .
" "

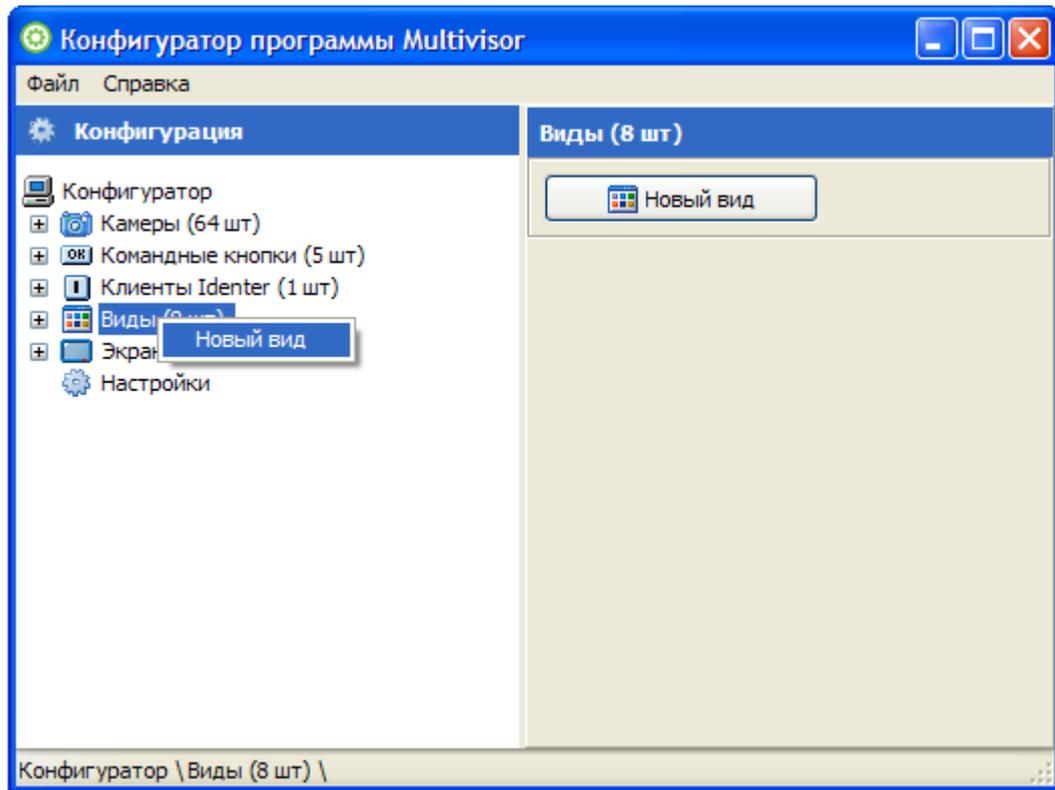
6.2.2

" " .
" " .



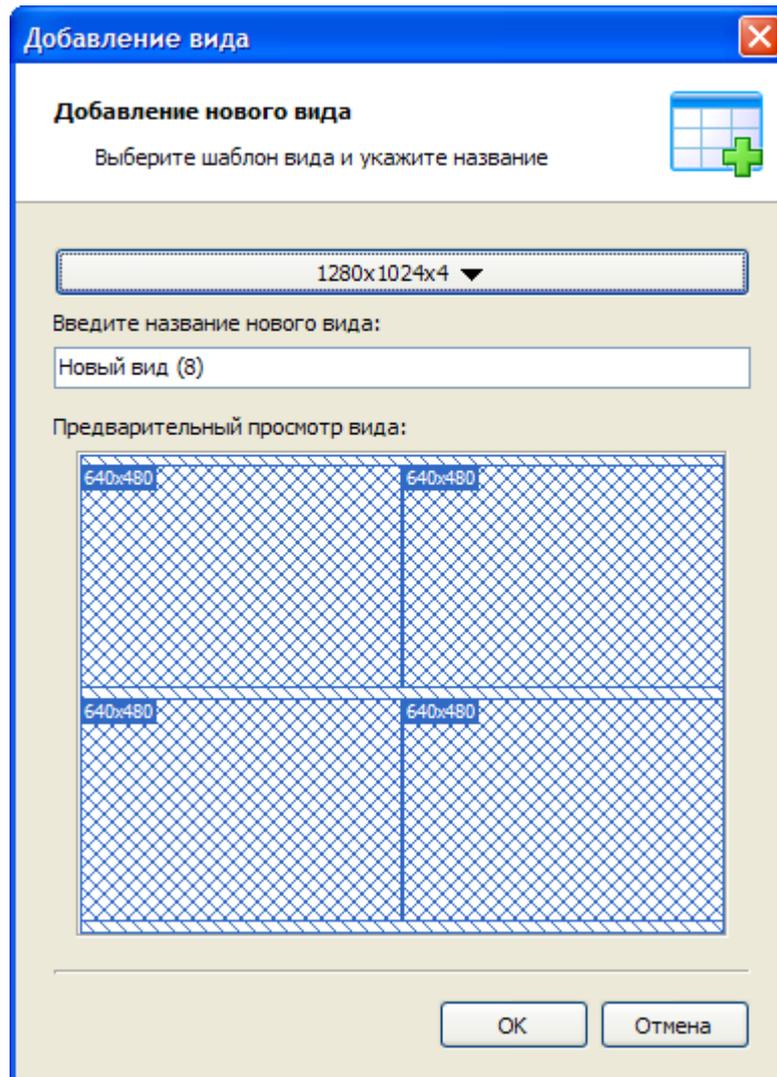
6.2.2.1

" " " " "



"

":

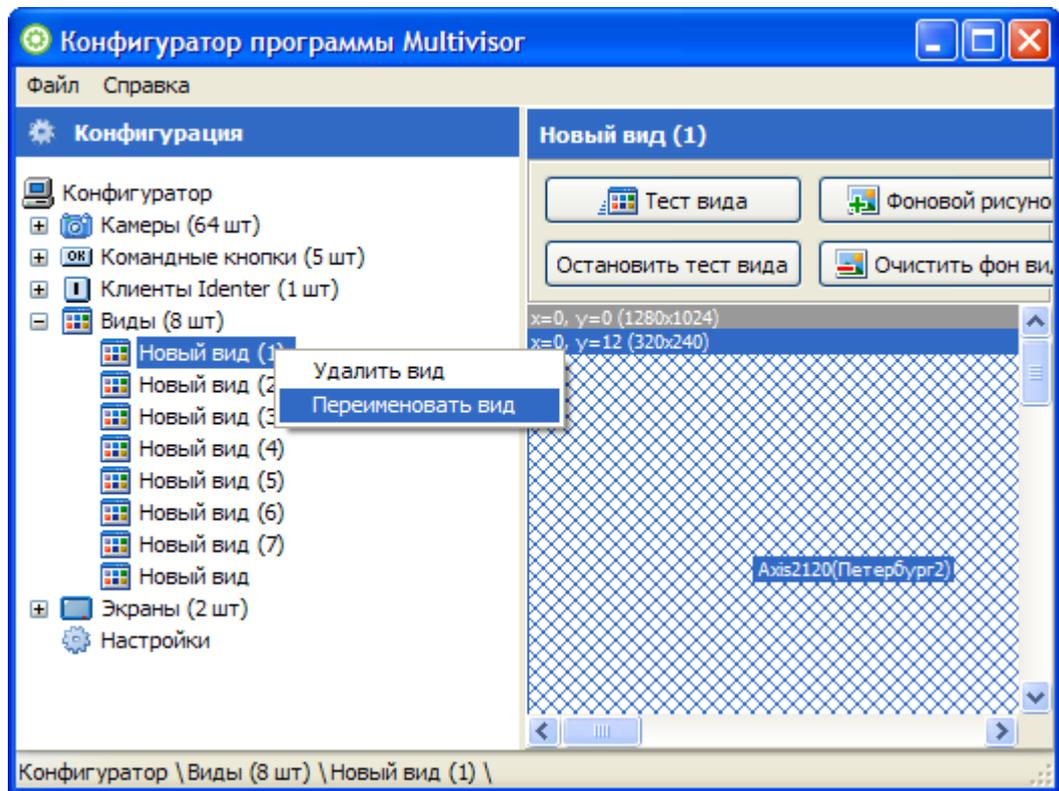


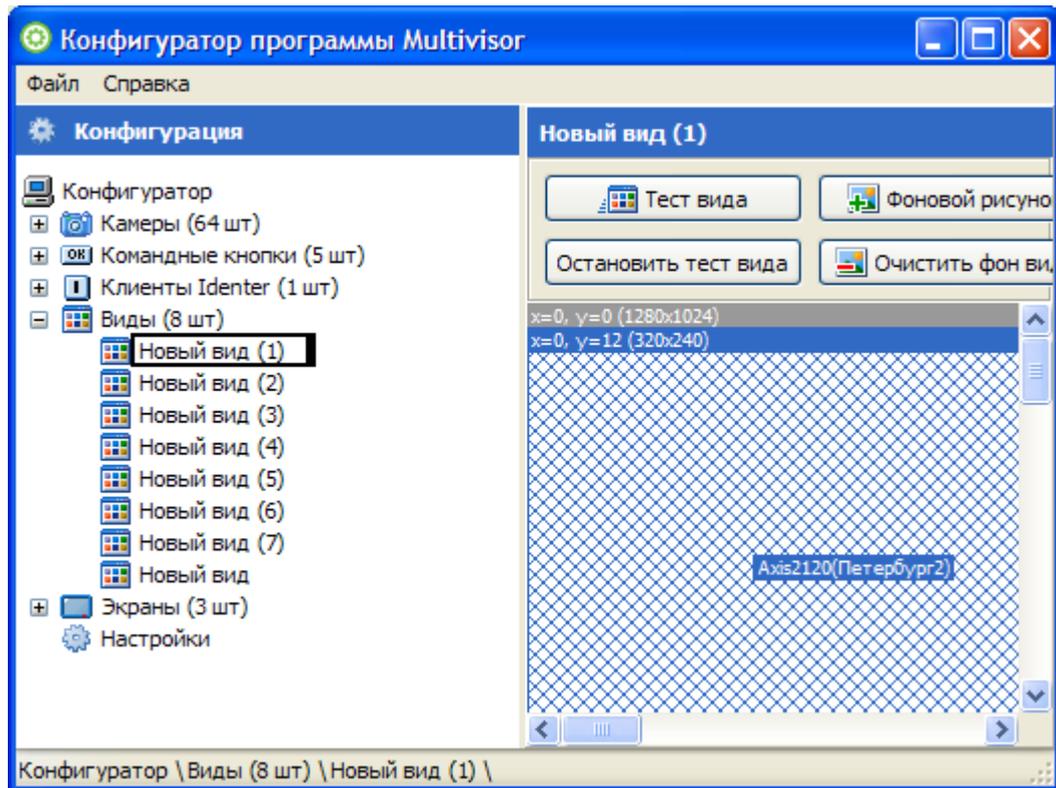
"OK"

"

"

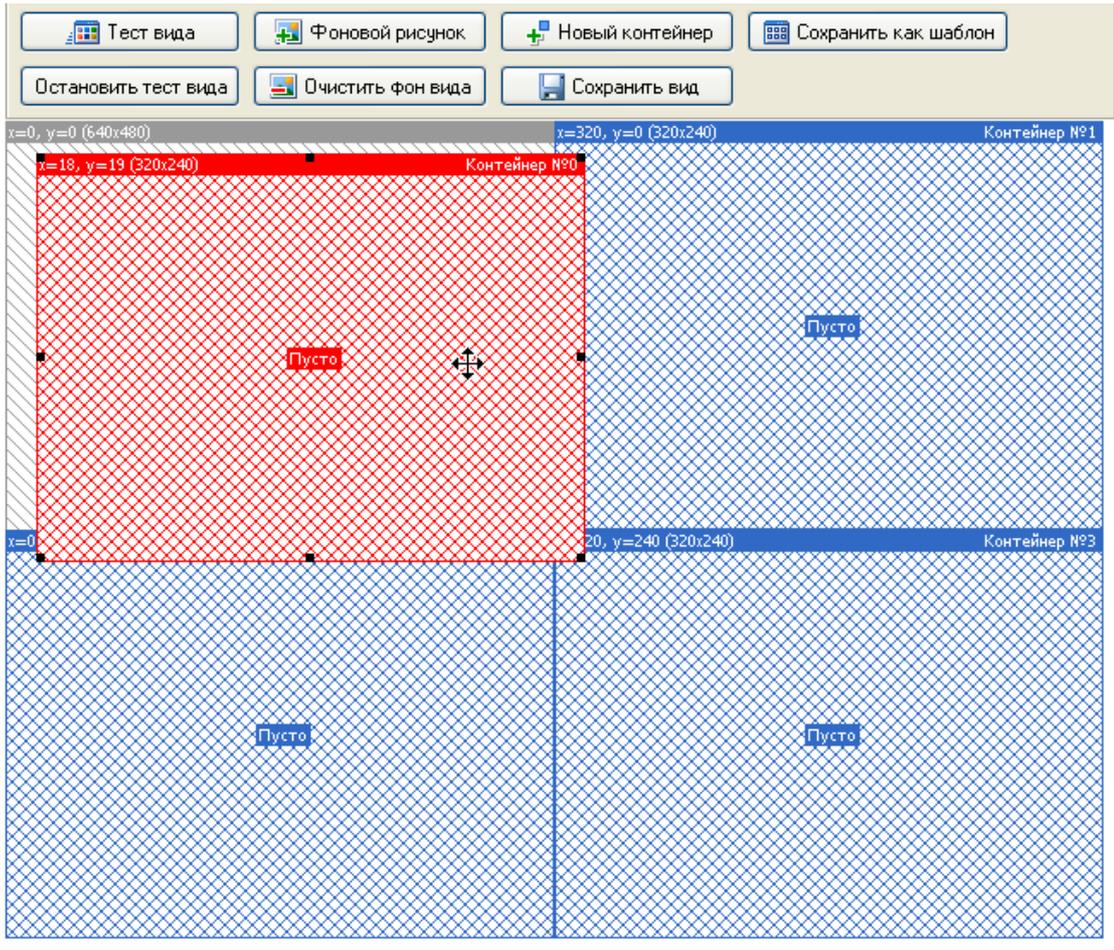
6.2.2.2





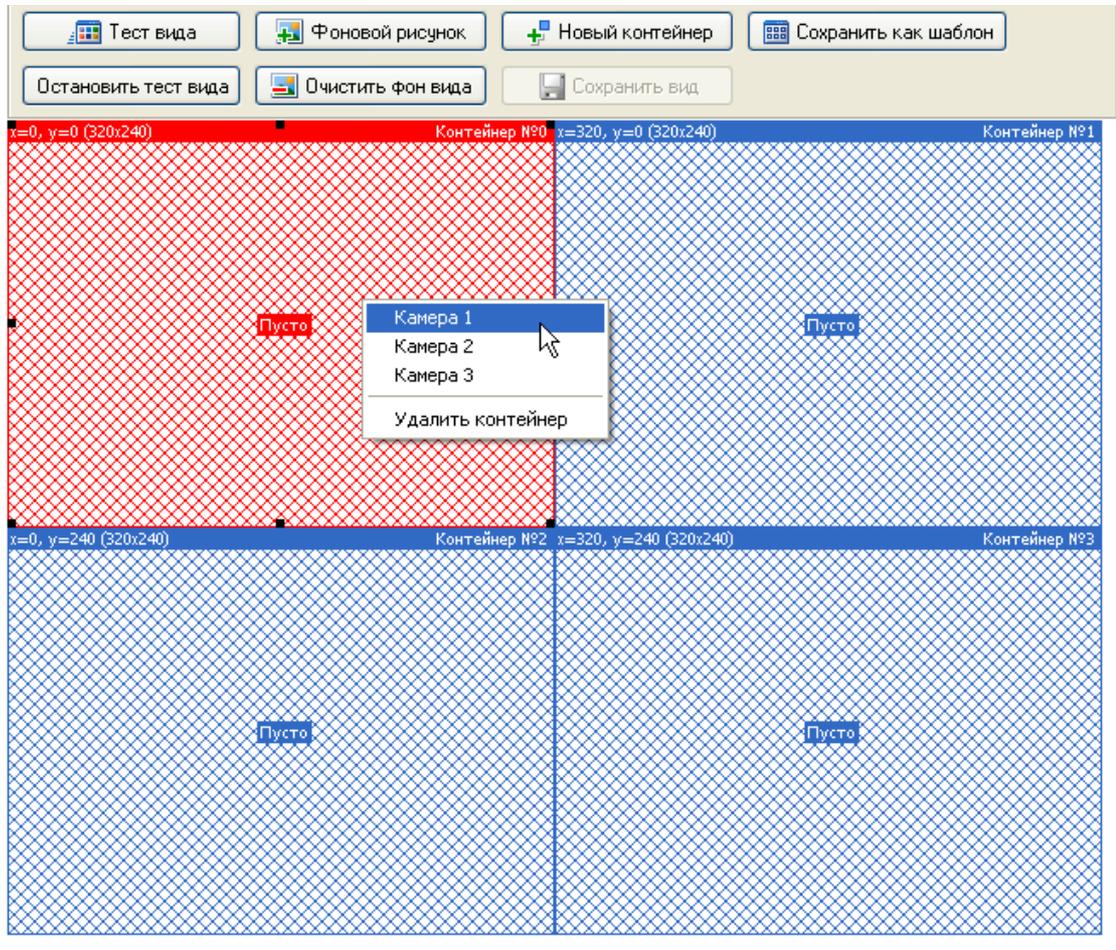
6.2.2.3

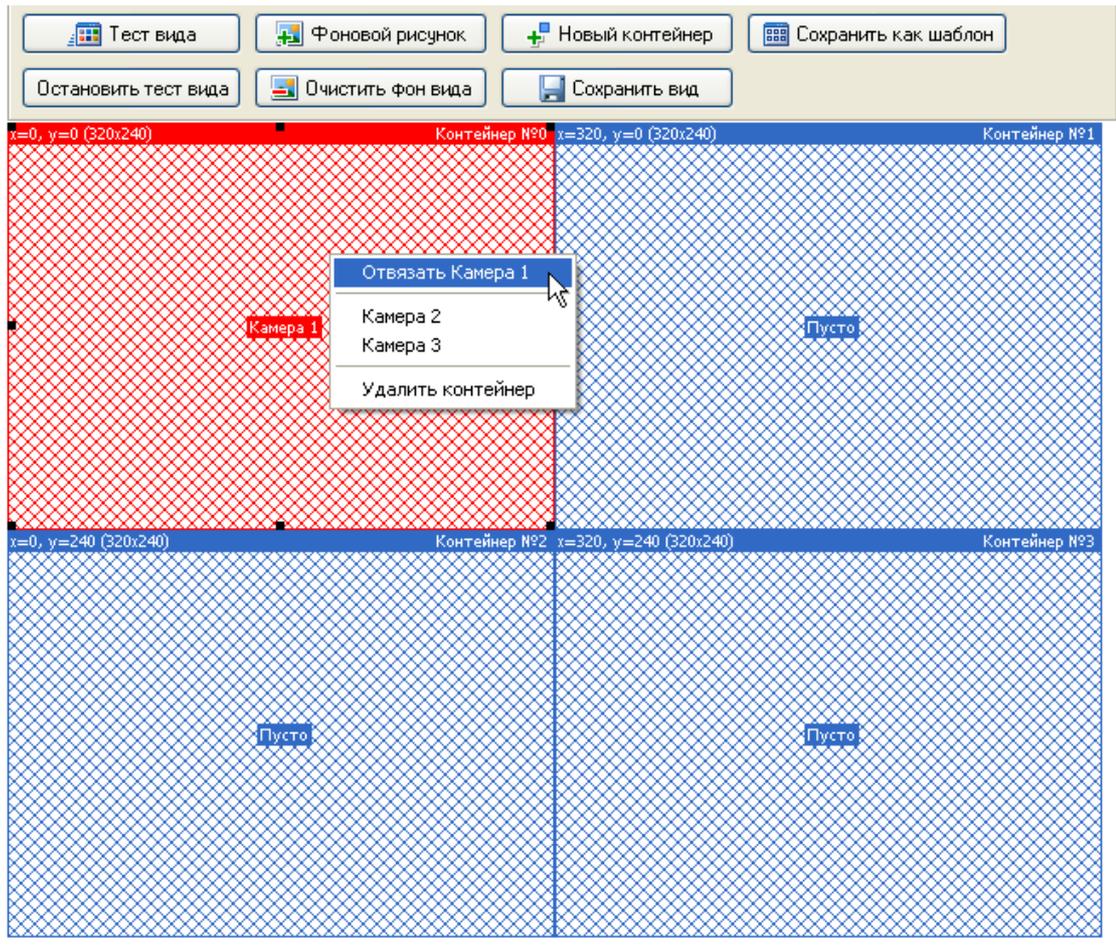
6.2.2.3.1



() , . , , () , " " : Ctrl + - , Shift + - " Delete " "

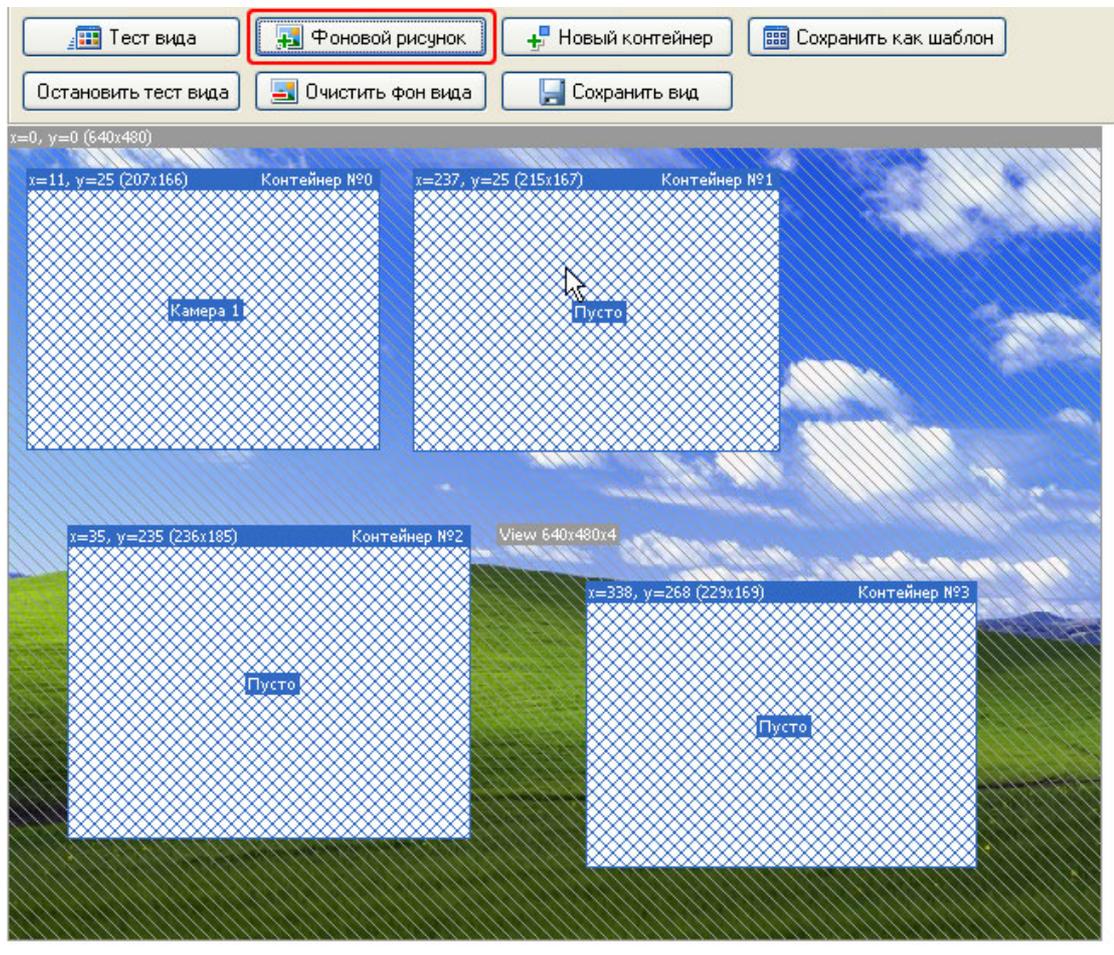
6.2.2.3.2



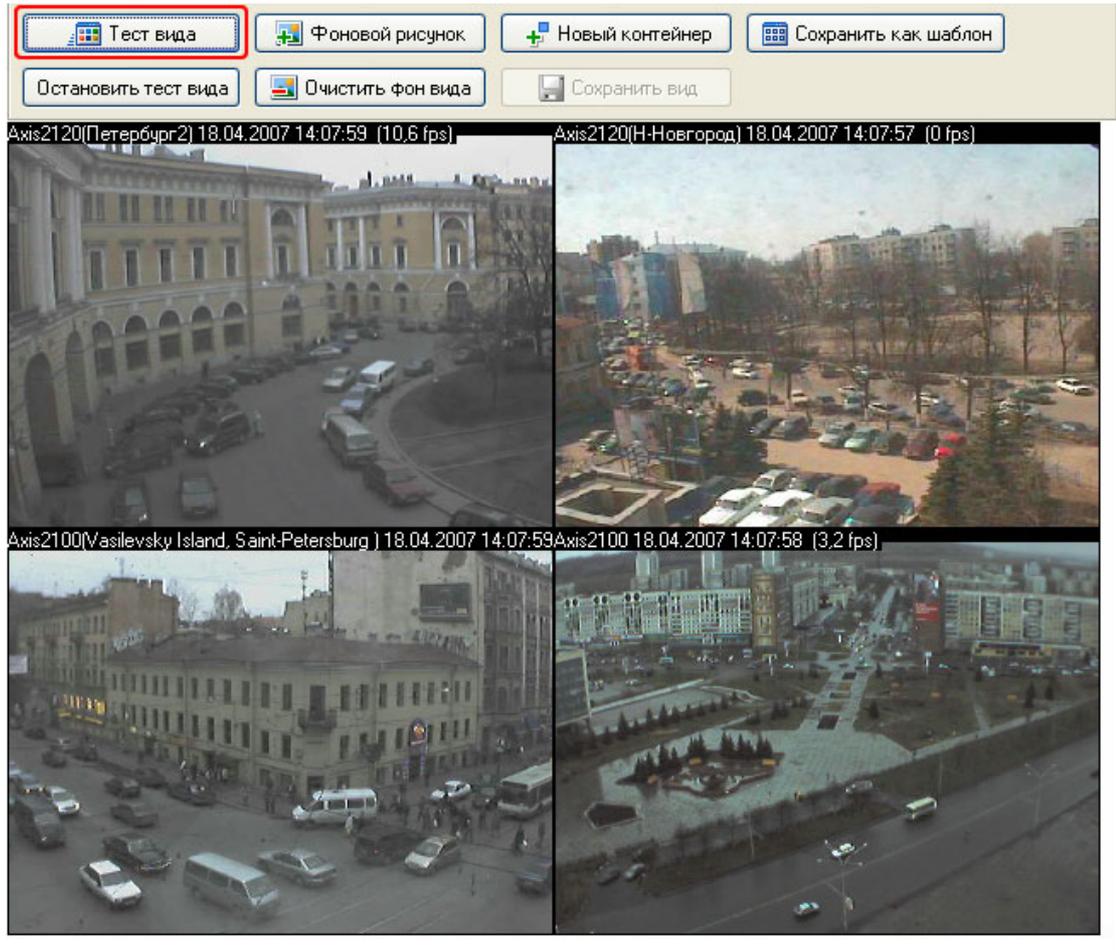


6.2.2.3.3

BMP.

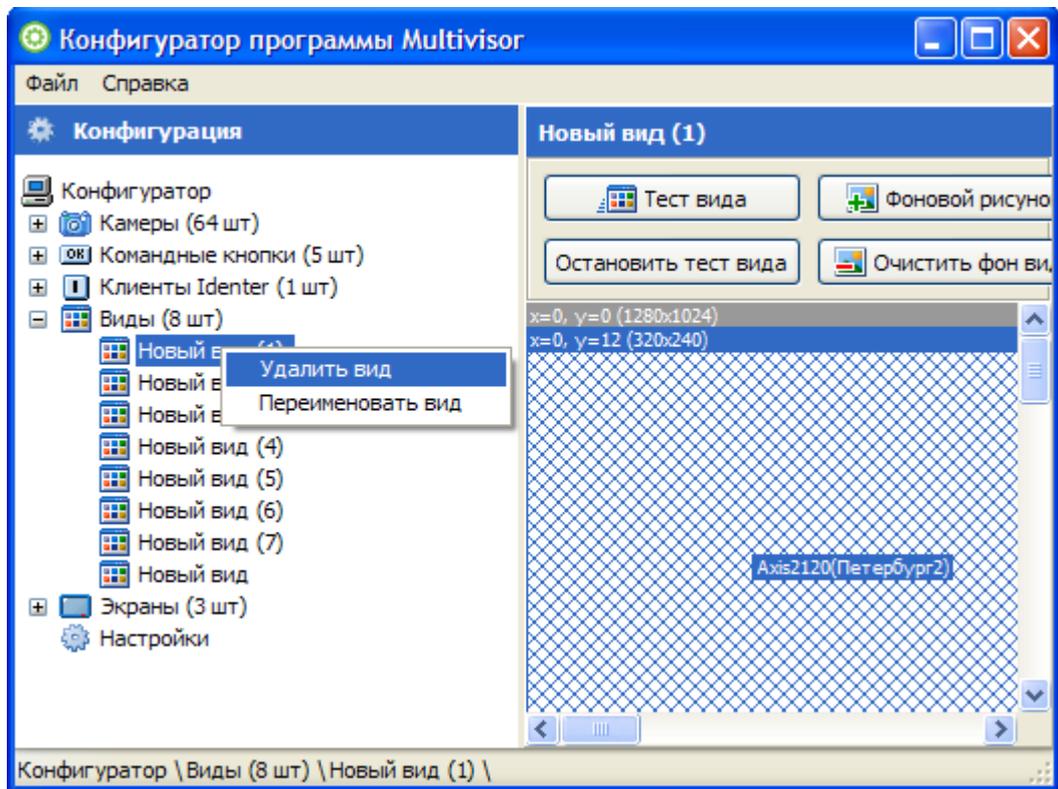


6.2.2.3.4



6.2.2.3.5

6.2.2.4

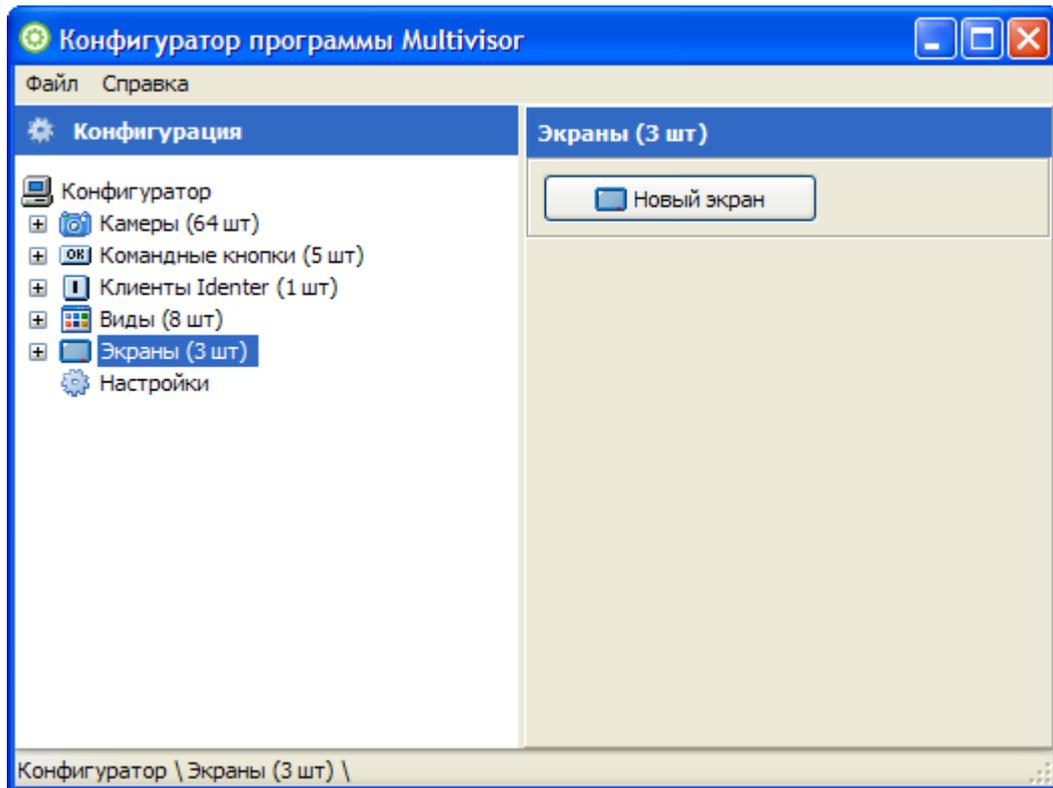


"Delete"

6.2.3

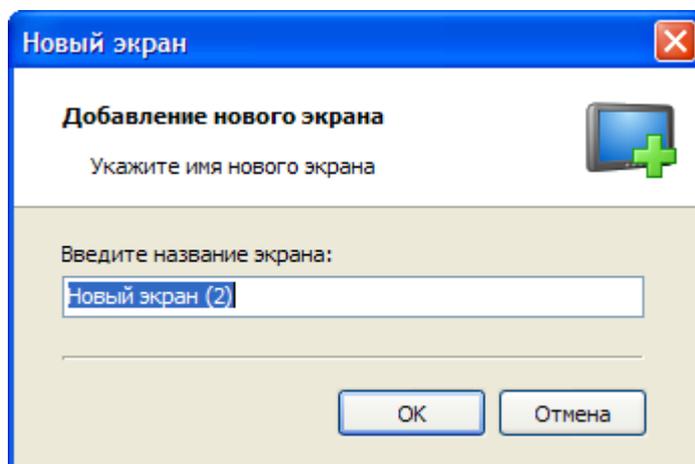
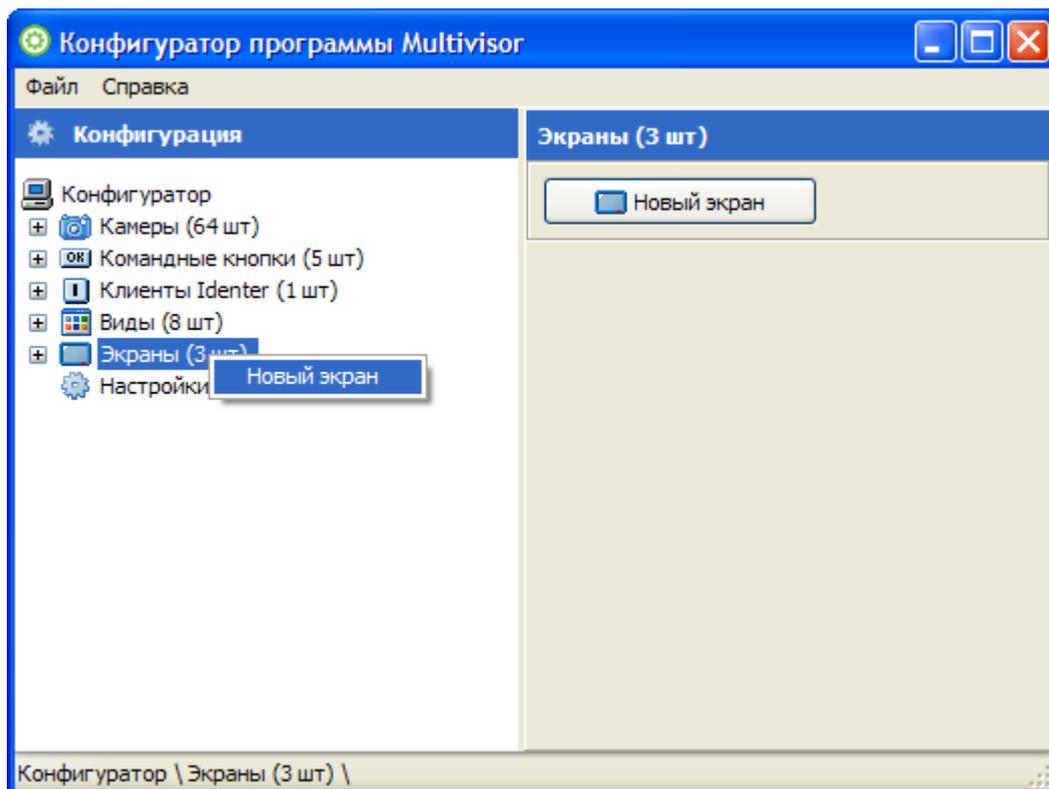
" "

" "

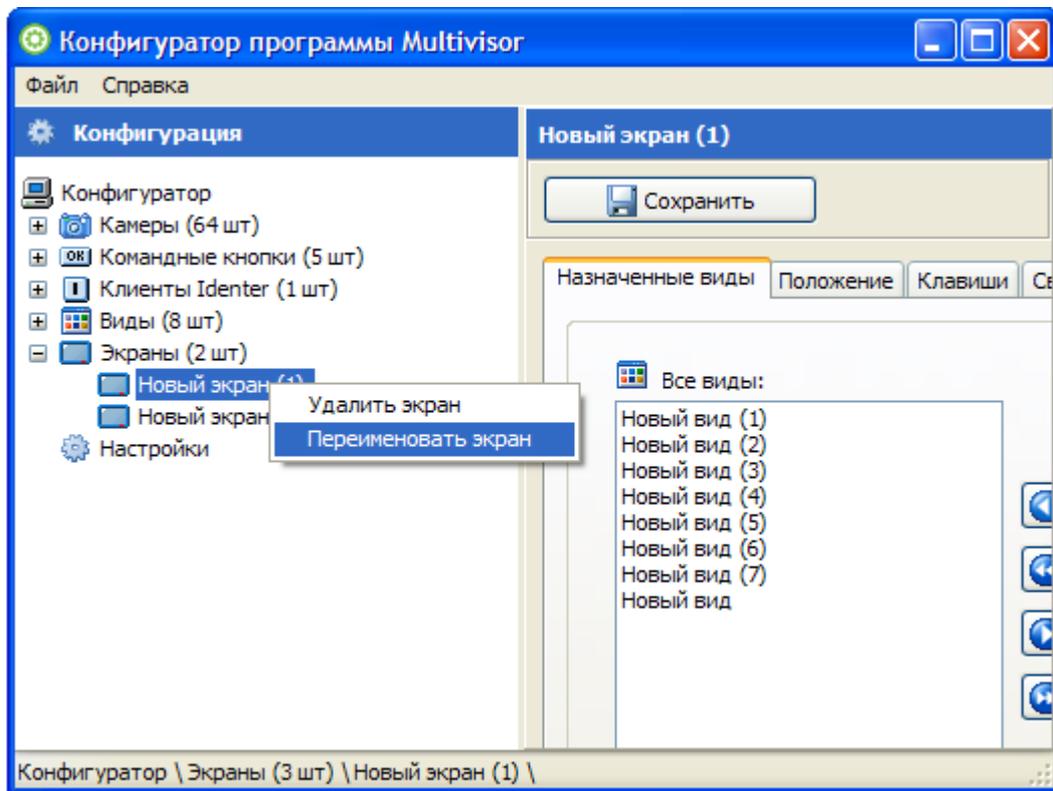


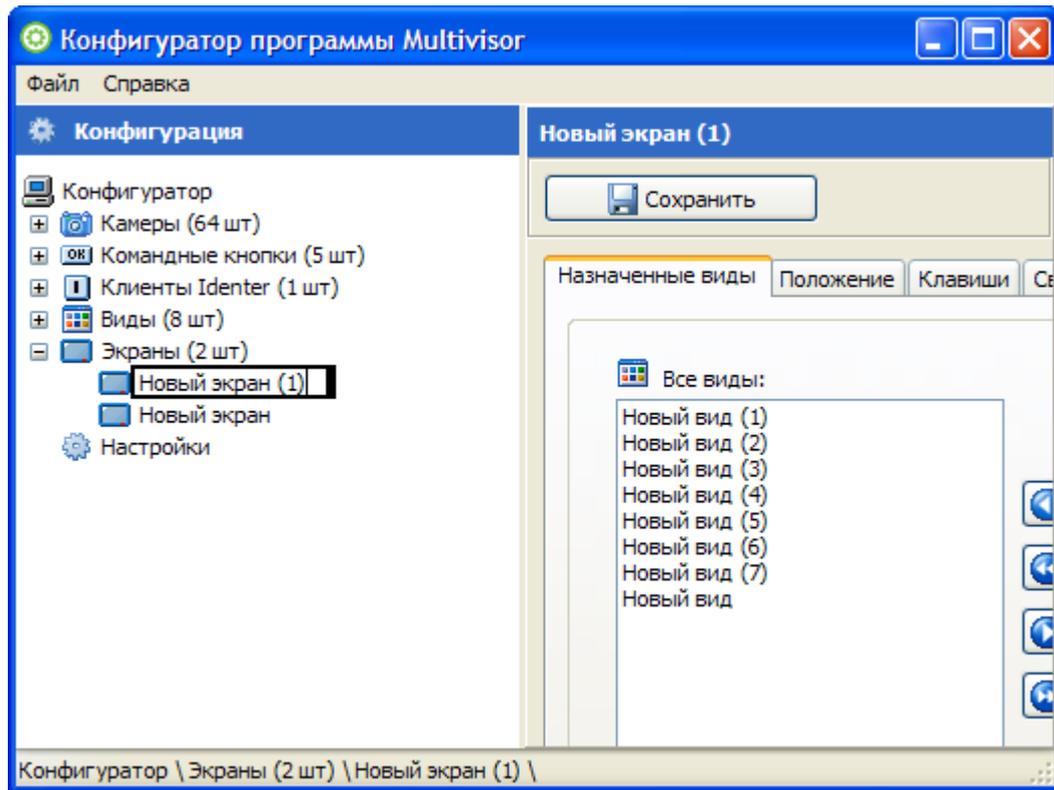
6.2.3.1

" " " " " " " " " "



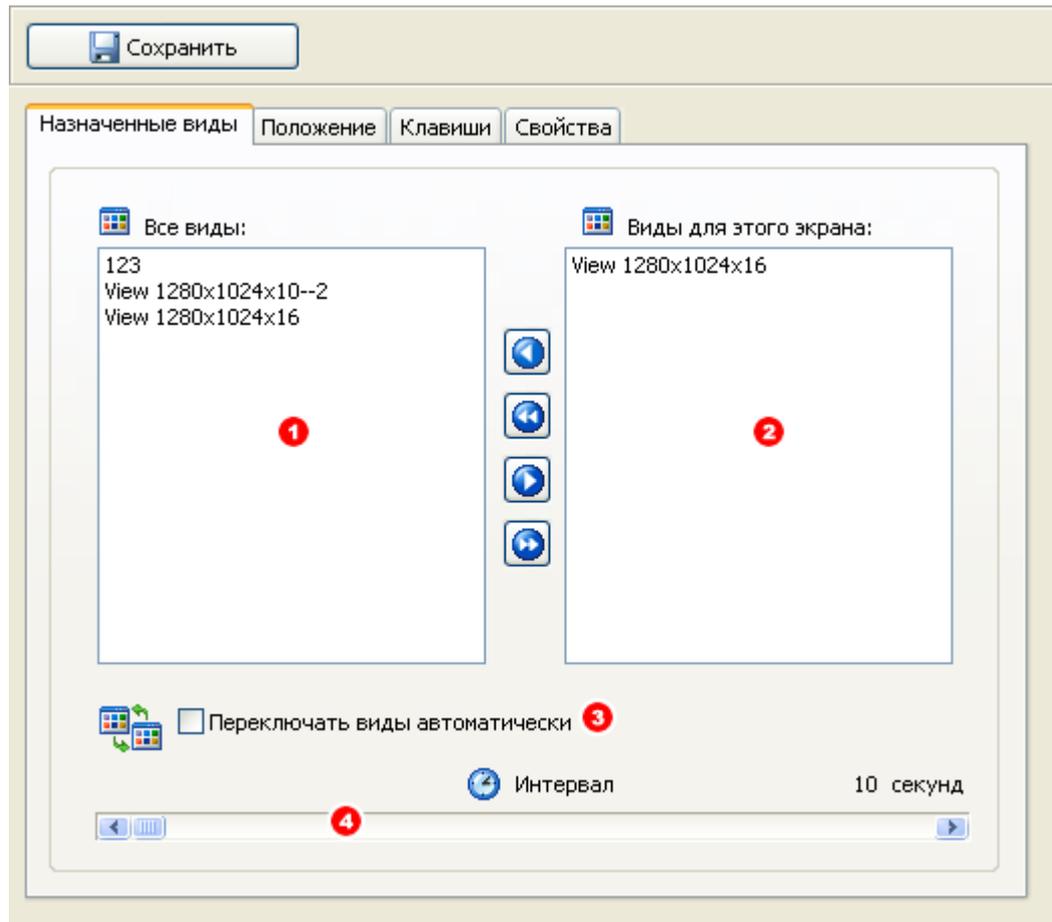
6.2.3.2



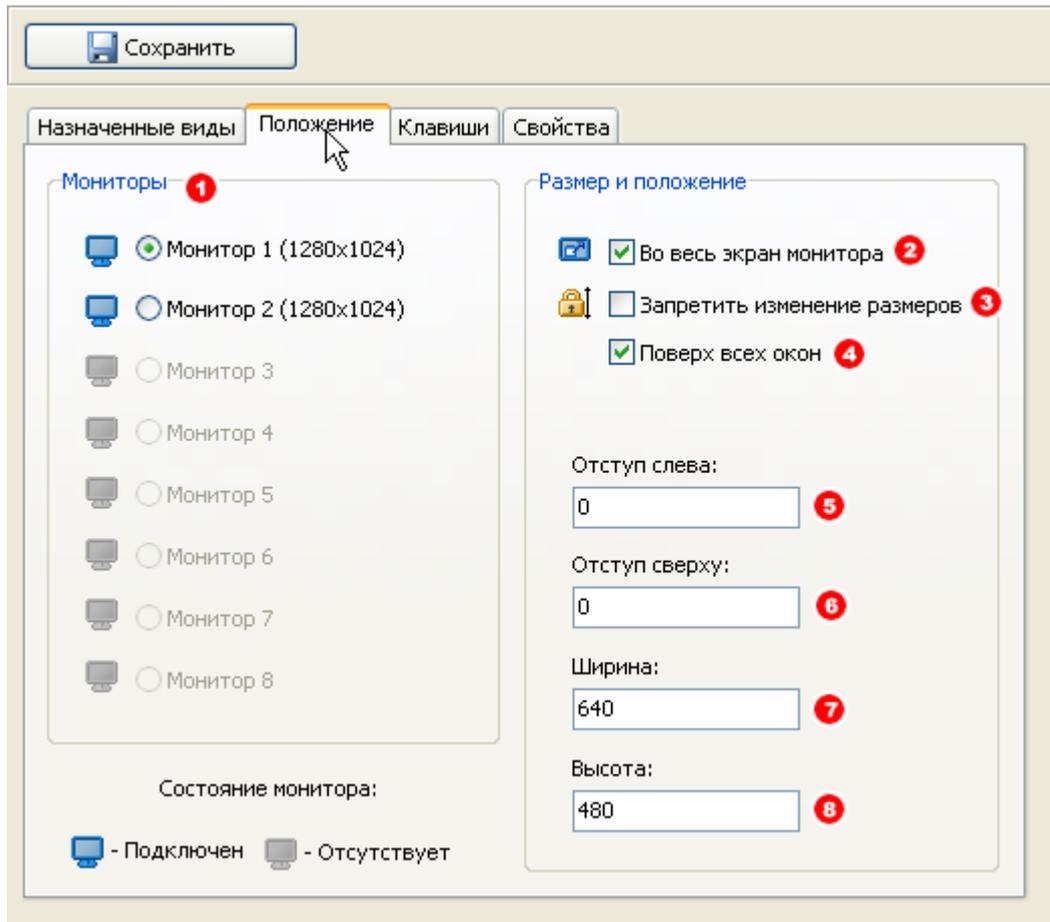


6.2.3.3

6.2.3.3.1



6.2.3.3.2



" (1).

(2)

(3)

(

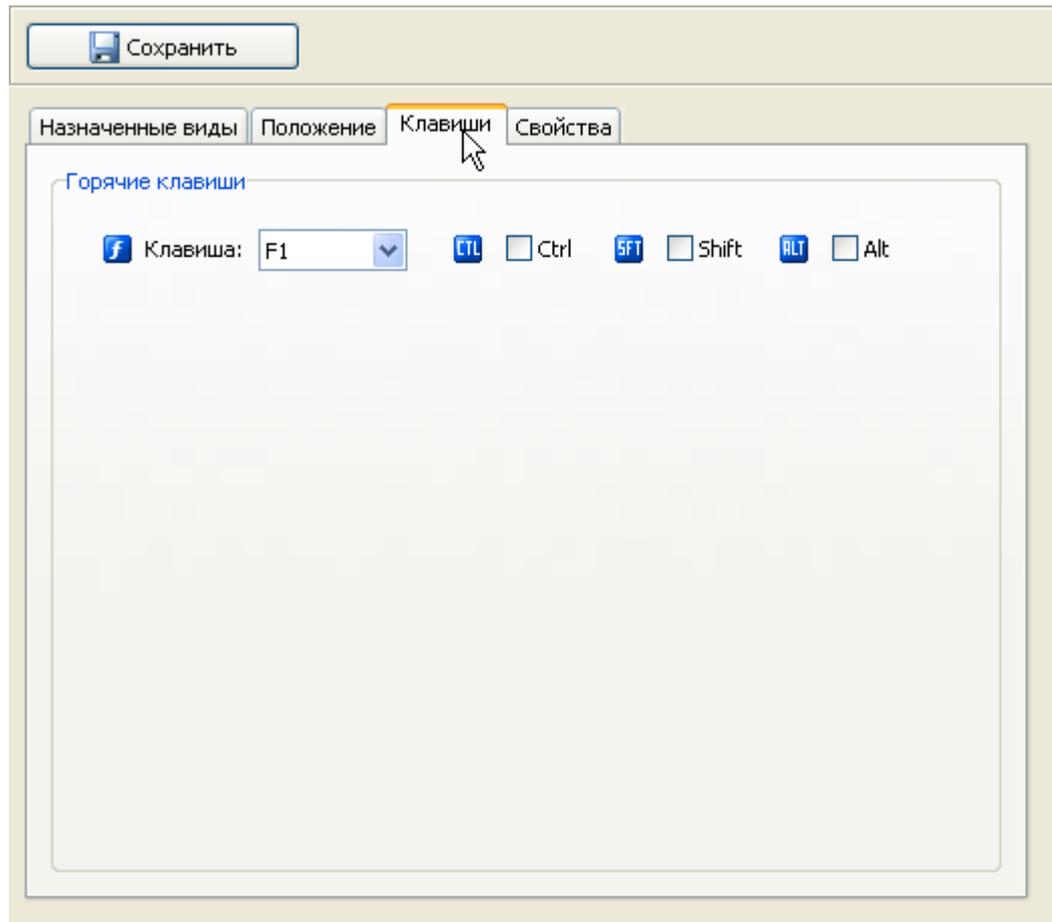
(2)).

(4).

(5)-(8).

(2),

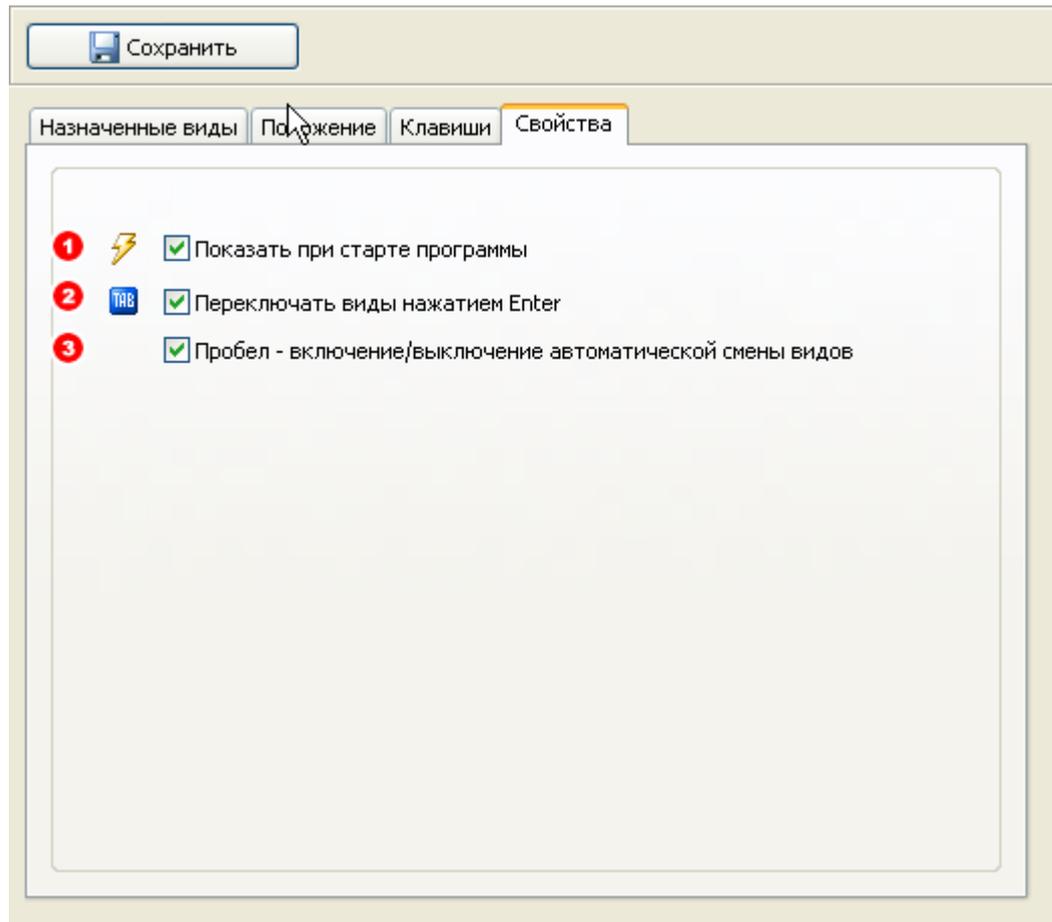
6.2.3.3.3



CTRL, SHIFT, ALT.

F1-F12 /

6.2.3.3.4



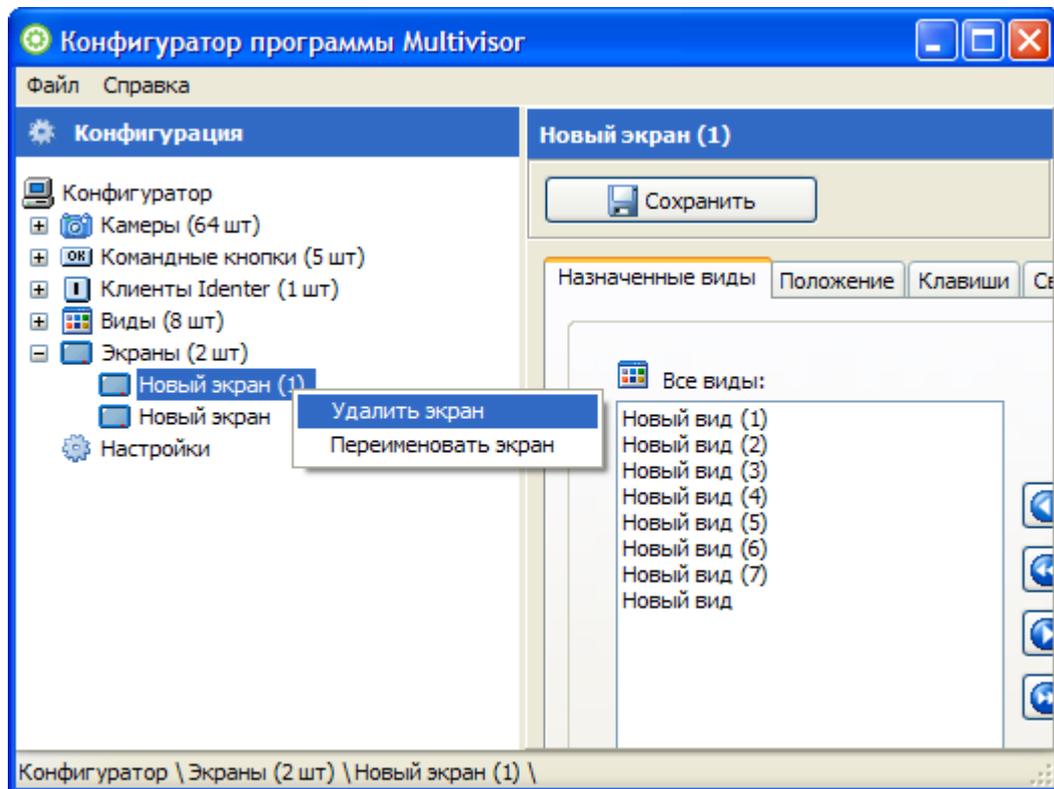
(1) Показывать при старте программы "Multivisor".

(2) Переключать виды нажатием Enter.

Пробел - включение/выключение автоматической смены видов "Enter".

(3) Пробел - включение/выключение автоматической смены видов " ".

6.2.3.4

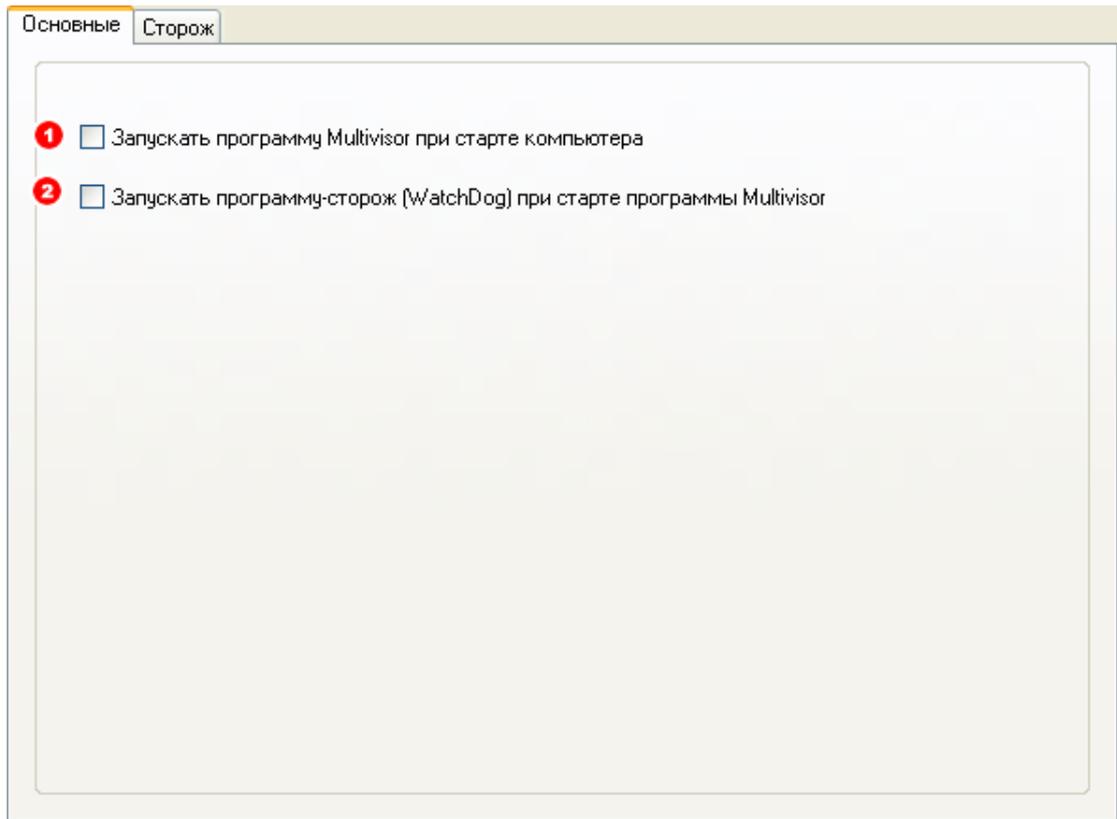


"Delete"

6.2.4

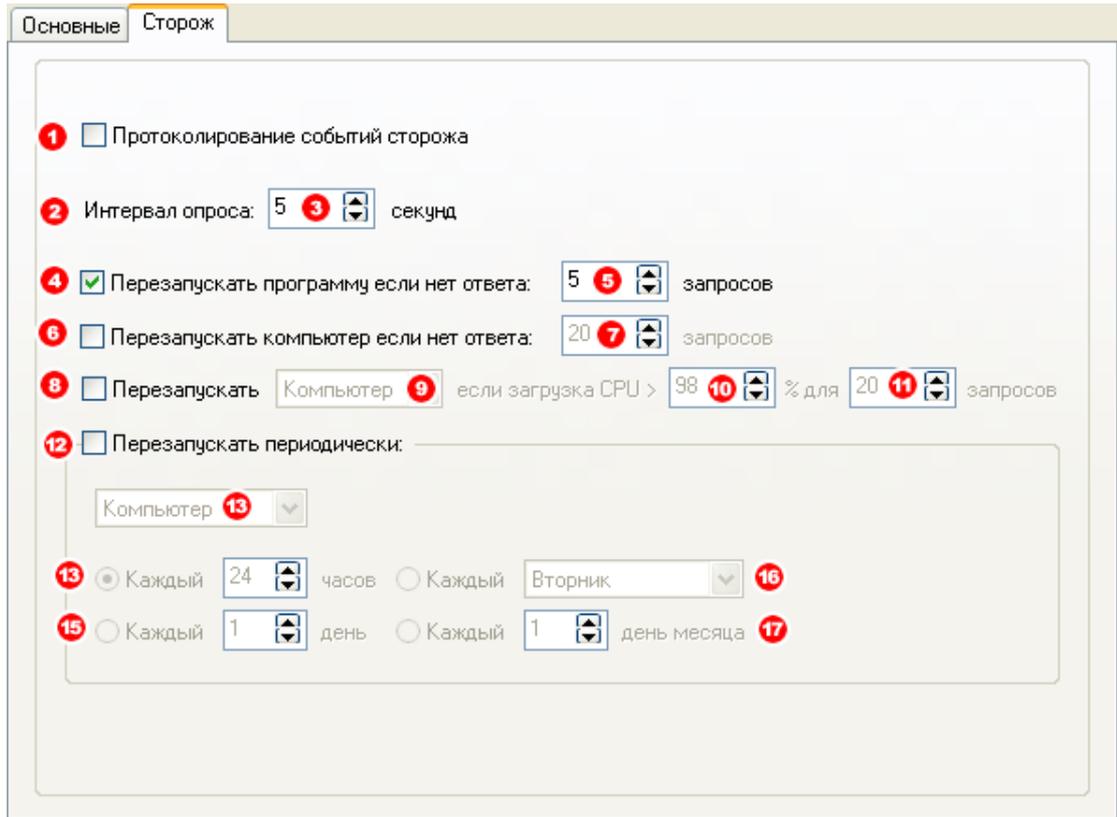
Multivisor",

6.2.4.1



- (1) - "Multivisor" Windows. " " " "
- Multivisor" " " " "
- (2) - "Multivisor" (Watchdog), " " " "
- Multivisor" " " " "

6.2.4.2



(1)

Log- WatchdogLog,

(2)

Watchdog

" (3). 5 (2-3) (30)

(4)

(5)

(6)

(7)

(8)

(9),

(11)

(10).

(12)

Watchdog

c

(13)

(14)

N (N , 2).

(15)

N (N , 5).

(16)

(,).

(17)

N N- (, 1-).

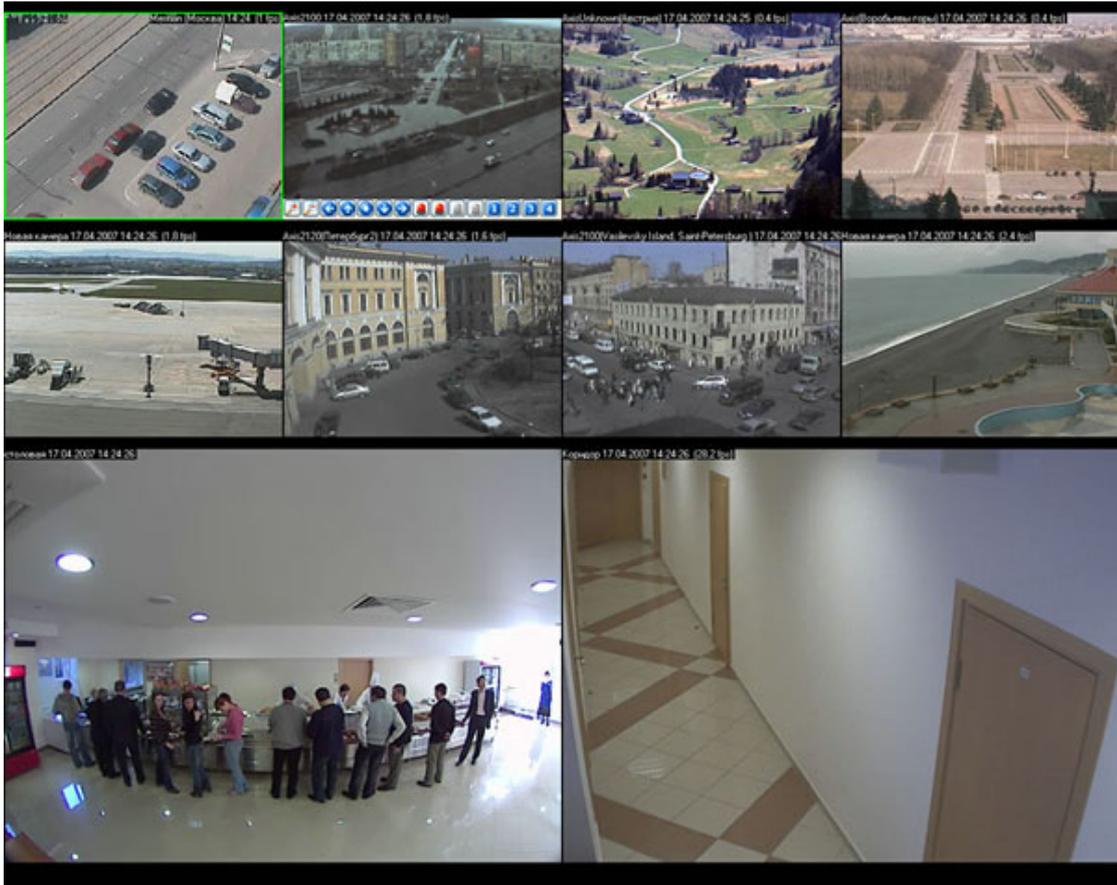
7

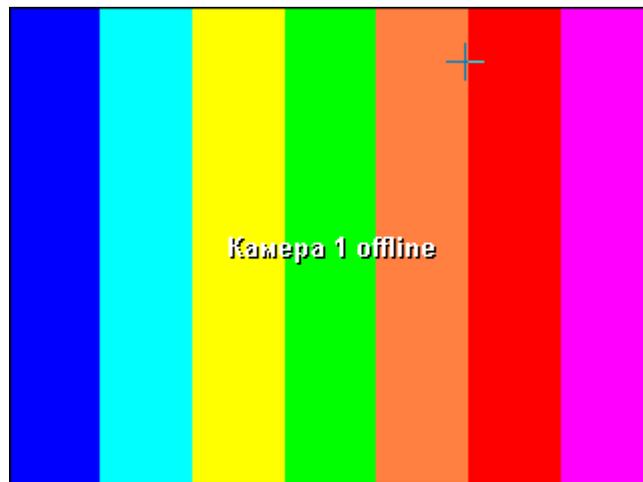
DigitalRing Multivisor

"DigitalRing Multivisor"

().

, IP- ()







7.1

ALT+TAB.

Windows.

Windows, .

ALT+TAB.

/

/

"

"

7.2

ENTER.

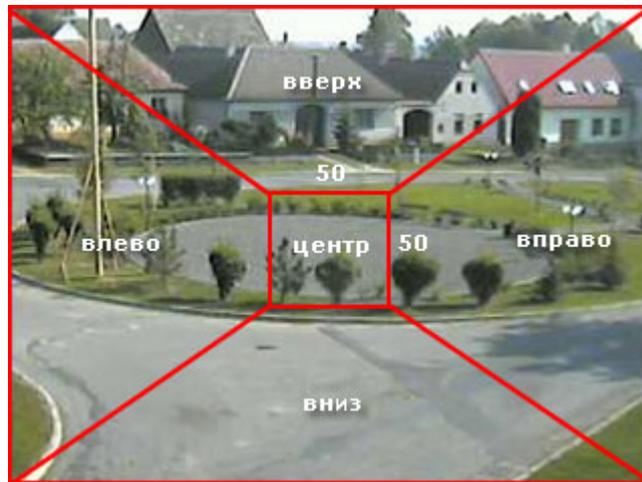
7.3

)

(

TAB

1.



2.

- CTRL + ;
- CTRL + ;
- CTRL + ;
- CTRL + ;
- CTRL + HOME - ;

3.



(3)-(7)

- (3) - ;
- (7) - ;
- (4) - ;
- (6) - ;
- (5) - - ;

1.

2.

- CTRL + - ;
- CTRL + - ;

3.

(1),(2)

- (1) - ;
- (2) - ;

IP-

2

DigitalRing"

1.

- CTRL + Alt + F1 - 1;
- CTRL + Alt + F2 - 2;
- CTRL + Alt + F3 - 1;
- CTRL + Alt + F4 - 2;

2.

- (8) - 1;
- (9) - 2;
- (10) - 1;
- (11) - 2;

(PRESET),

1.

- CTRL + 1 - 1;
- CTRL + 2 - 2;
- CTRL + 3 - 3;
- CTRL + 4 - 4;
- CTRL + 5 - 5;
- CTRL + 6 - 6;
- CTRL + 7 - 7;
- CTRL + 8 - 8;
- CTRL + 9 - 9;
- CTRL + 0 - 0;

2.

- (12) - 1;
- (13) - 2;

- (14) - 3;

- (15) - 4;

- F - ;

- CTRL + F - ;

- ALT + CTRL + F - ;

(),

- I - ;

- CTRL + I - ;

- ALT + CTRL + I - ;

/ / ,

- D - ;

- N - ;

- A - ;

7.4

"DigitalRing Multivisor"

"

"Multivisor"

".

