

**COLORED VIDEO MONITOR
METAKOM
MKV-VM8**

www.metakom-plus.ru

**PASSPORT
user's manual**

Valid for filling

To be completed by the repair company

Contents of the repair. Name and number according to the scheme of the replaced part or unit. The place and nature of the defect:

Signature of the person who carried out repairs _____

Date of repair _____
(day, month, year)

Signature of the owner of the product, confirming the repair

Repair company stamp with the city:

CONTENTS

1.PURPOSE.....	2
2.OPERATING FUNCTIONS.....	3
3.MAIN TECHNICAL CHARACTERISTICS.....	4
4.CONTROLS AND INDICATORS OF THE MONITOR.....	5
5.VIDEO MONITOR INSTALLATION.....	8
6.CONNECTION DIAGRAM.....	9
7.DESCRPTION OF WORK.....	17
8.COMPLETE SET OF THE VIDEO MONITOR.....	22
9.TRANSPORTATION AND STORAGE.....	23
10.MANUFACTURER'S WARRANTY.....	24

1. PURPOSE.

The color video monitor METAKOM MKV-VM8 is designed to control access and two-way audio and video communication with the visitor.

One METAPOM calling panel (MK1, MK2, MK4, MK6), working on a 4-wire connection system, one METACOM calling panel operating with a coordinate system of addressing, as well as an additional external video camera and an additional monitor can be connected to the monitor.

Up to three additional monitors can be connected to the main monitor. This activates the function of "intercom" between monitors and there is the possibility of transferring the call to an additional monitor.

ATTENTION! In the monitor ver. 2 additional monitors work only when using a 4-wire connection. When connecting the calling panel to the coordinate system of addressing, additional monitors will not work.

Valid for filling

TEAR-OFF COUPON N1 ON WARRANTY REPAIR VIDEO MONITOR MKV-VM8

To be completed by the manufacturer

Serial number of the product _____

Release date _____
(day, month, year)

Representative of the QC of the manufacturer

(QC stamp)

Address for return of the coupon to the
manufacturer:
Russia, 241024, Bryansk city, Delegate
street, 68, LTD "Metakom"

To be completed by a trade or installation organization

Date of sale _____
(day, month, year)

Seller _____
(signature or stamp)

Stamp of the trade organization:

Date of commissioning _____
(число, месяц, год)

Установщик _____
(signature or stamp)

The stamp of the organization that conducted the installation:

Линия отреза Корешок отрывного талона N2 на гарантийный ремонт видеомонитора METAKOM MKV-VM8

Valid for filling

To be completed by the repair company

Contents of the repair. Name and number according to the scheme of the replaced part or unit. The place and nature of the defect:

Signature of the person who carried out repairs _____

Date of repair _____
(day, month, year)

Signature of the owner of the product, confirming the repair

Repair company stamp with the city:

2. FUNCTIONS.

- automatic video monitor on when a call comes in;
- the formation of a sound signal when a call comes in;
- duplex communication of the subscriber with the visitor;
- opening the lock without interrupting the connection;
- viewing video images from connected cameras in standby mode;
- call forwarding to an additional monitor (only for ver. 1);
- internal audio communication (intercom mode).

3. MAIN TECHNICAL CHARACTERISTICS.

Parametr	Ver. 1	Ver. 2
Display	4" TFT LCD	4.3"
Resolution	320x234	480x272
Standard video	PAL/NTSC	PAL/NTSC
Intercom mode	Duplex	-
Duration of the conversation, s	120	60
Current in standby mode, A, not more than	0.2	0.1
Current in operating mode, A, not more than	0.4	0.4
Supply voltage, V	Const. 12	Const adapter 14 V
Working temperature	0...+40°C	0...+40°C
Relative humidity	95% at 35°C	95% at 35°C
Installation	Mounting plate	Mounting plate
Dimensions, mm	170x120x20	180x112x17
Weight, kg, no more than	0.6	0.3

Valid for filling

**TEAR-OFF COUPON N1
ON WARRANTY REPAIR VIDEO MONITOR MKV-VM8**

To be completed by the manufacturer

Serial number of the product _____

Release date _____
(day, month, year)

Representative of the QC of the manufacturer

(QC stamp)

Address for return of the coupon to the manufacturer:
Russia, 241024, Bryansk city, Delegate street, 68, LTD "Metakom"

To be completed by a trade or installation organization

Date of sale _____
(day, month, year)

Seller _____
(signature or stamp)

Stamp of the trade organization:

Date of commissioning _____
(число, месяц, год)

Установщик _____
(signature or stamp)

The stamp of the organization that conducted the installation:

Линия отреза Корешок отрывного талона N1 на гарантийный ремонт видеомонитора МЕТАКОМ MKV-VM8

10. MANUFACTURER'S WARRANTY.

The manufacturer guarantees the compliance of the METAKOM MKV-VM8 video monitor with the requirements of MTKM.460320.001 TU when the user applies the rules of use, storage and transportation.

Guarantee period of operation of the outdoor panel is 12 months from the date of sale, but not more than 18 months from the date of manufacture.

Service life is 5 years from the date of manufacture.

Without presentation of a voucher for warranty repair and (or) violation of the integrity of seals, mechanical, electrical or other types of damage caused by improper transportation, storage or operation, no claims for quality are accepted and no warranty repair is performed.

Manufacturer's address:

Russia, 241024, Bryansk, Delegate, str. 68, LLC

"Metacom-plus"

тел./факс: (4832) 68-28-26

тел. (4832) 68-37-95

<http://www.metakom-plus.ru>

E-mail: os@metakom-plus.ru



The product is certified

4. CONTROLS AND INDICATORS OF THE MONITOR.

Controls and indicators of the METAMOM video monitor MKV-VM8 (ver.1) are shown in Fig. 1.

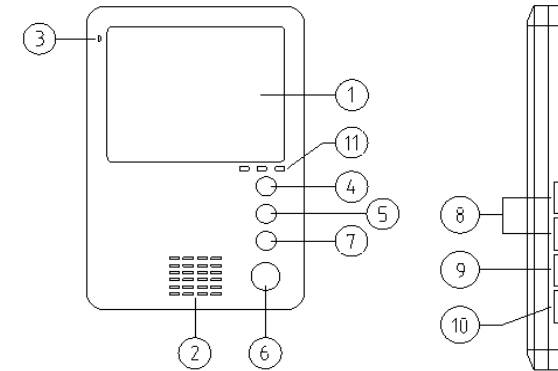


Fig. 1. Controls and displays of the METAMOM video monitor MKV-VM8 (ver.1).

№	Name	Description
1	TFT display	Video signal display of the calling panel
2	Speaker	Playing sound from the microphone of the calling panel
3	Microphone	Voice transmission to the speaker of the calling panel
4	"Monitoring" button	Watching video in real time with a calling panel
5	Forward button	Call forwarding to an additional monitor
6	Button "Conversation"	Answer an incoming call
7	Open button	Opens the door lock
8	Image adjustment	Adjust the brightness and color of the image
9	Ringing volume	Adjust the ring signal volume
10	Speech volume	Adjusting the volume of the sound during a call
11	LED indicator	Power and video status indicator 1 and 2

Decoding of indicators states Power



If the indicator constantly glows blue, this indicates the presence of a power supply. If the indicator blinks slowly, it means that the monitor is in intercom mode. If the indicator flashes frequently, this means that the monitors work in parallel.









1 Indicator 1

When the monitor is operating with the first call panel (4-wire connection), the indicator lights up in red.

2 Indicator 2

When the monitor is operating with a second calling panel (coordinate) or an additional camera, the indicator lights up in green.

Control buttons

Symbol	Explanation
	Forwarding a call to an additional monitor or watching the video signal of the call panel in standby mode
	View image from the camera at the entrance in real time
	Opening the door lock
	Activating a conversation with a visitor
	Adjust the brightness of the image
	Adjusting the color of the image
	Adjust the ring signal volume
	Adjusting the volume of the sound during a call

9. TRANSPORTATION AND STORAGE.

Packaged products can be transported by all modes of transport, except unpressurized aircraft compartments and open ship and ship decks, in accordance with the rules for the carriage of goods operating on this mode of transport.

As a transport container used boxes wooden, group and other containers, ensuring the safety of the goods during transportation.

Products should be stored only in a packed form in the absence of acidic, alkaline and other aggressive impurities in the ambient air.

The controls and displays of the METAKOM video monitor MKV-VM8 (ver.2) are shown in Fig. 2.

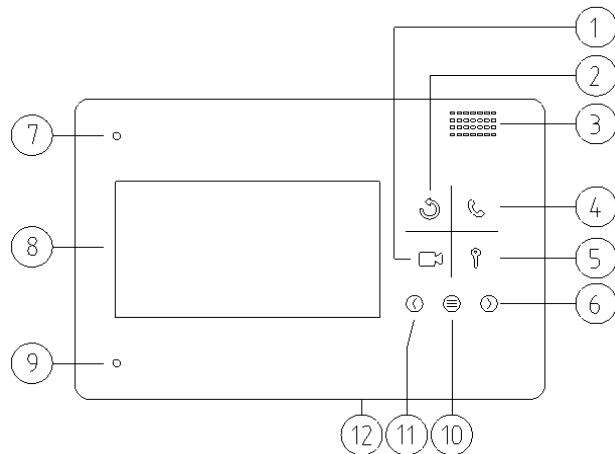


Fig. 2. Controls and displays of the MONACOM video monitor MKV-VM8 (ver.2).

8. COMPLETE SET OF THE VIDEO MONITOR.

- | | | |
|--------------------------|---------|-------|
| 1. Video Monitor METAMOM | MKV-VM8 | 1pcs. |
| 2. Passport | | 1pcs. |
| 3. Fixing kit | | 1pcs. |
| 4. Individual packing | | 1pcs. |
| 5. Power supply BP-11 | | 1pcs. |

№	Name	Description
1	Preview button	Viewing video from cameras and panels
2	Back button	Back, cancel the conversation
3	Speaker	Playing sound from the microphone of the calling panel
4	Reply button	Answer a call
5	Open button	Opens the door lock
6	Right button	Increase the value of the parameter, down
7	Power indicator	Lights when the video monitor is on
8	Screen	Video signal display of the calling panel
9	Microphone	Voice transmission to the speaker of the calling panel
10	Menu button	Entering the menu, confirming the input
11	Left button	Decrease parameter value, up
12	Power switch	Turn on / off video monitor

5. INSTALLATION OF THE VIDEO MONITOR.

- Please read these instructions and wiring diagrams carefully..
- Prepare a place for video monitors installation. It is recommended to install a video monitor at a height of 150-160 cm from the floor.
- Install the wiring.
- Connect a video monitor to the wiring harness. Particular care should be taken to connect the power circuits.
- Check the connections are correct.
- Attach the video monitor to a pre-prepared location using the supplied hardware kit (Figure 3).

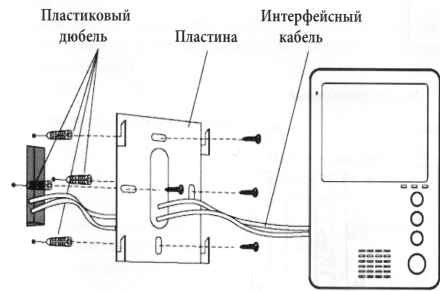



Fig. 3. Scheme of installation of a video monitor MONACOM MKV-VM8.

- Turn on the power and check the operation of the video monitor by making a call on each connected channel.

Don't Disturb


The Don't Disturb function is enabled / disabled in the settings menu. If this function is enabled, the video monitor will not beep in the calling mode from the call panel, intercom or general call.

User settings for video monitor.

To enter the video monitor settings menu in standby mode, press the button and hold button .

№	Option	Value	Note
1	LANGUAGE	ENGLISH / RUSSIAN	
2	TIME TO CALL	The factory setting is 30 seconds, permissible values: 10-60sec	
3	CALL VOLUME	Factory setting: medium, permissible values: loud, medium, quiet	
4	MELODY	Factory setting 01, permissible values: 01-25	
5	DON'T DISTURB MODE	The factory setting is OFF, if the function is on, the power indicator on the video monitor blinks	
6	LISTENING MODE	The factory default setting is OFF, if the function is ON, the monitor can be viewed from other monitors	
7	DEVICE ADDRESS	ROOM 1 / 2 / 3 / 4	The main monitor address must be 1. The option is highlighted in yellow if two monitors have the same address.
8	INPUT 2	The factory setting is PANEL 2, admissible values: PANEL 2, CAMERA 1, CAMERA 2	
9	INPUT 3	The factory default setting is MONITOR, valid values are: MONITOR, CAMERA 1, CAMERA 2	
10	PLANT, SETTINGS	Reset the system settings of the video monitor to the factory settings	

Engineering settings video monitor.

To enter the engineering settings, turn on the video monitor and during the splash screen appears, press and hold the button .

1	VCOMDC	DON'T CHANGE. Service setting of the LCD display
2	LOCK OPENING TIME	The factory setting is 1sec, the permissible values are 1-10sec
3	OPERATION TIME AD. RELAY	The factory setting is 00, valid values are 0-0.9sec and 1-25sec

ATTENTION! Unintended change of engineering settings can disrupt the video monitor or other devices, this will not be considered a warranty case.

7.2. Description of the work of the video monitor METAKOM MKV-VM8 (ver.2)

Answer an incoming call, divert to an additional monitor.

When you receive a call from the call panel on the video monitor, an audible tone sounds and "INCOMING CALL" is displayed on the screen.

To talk with the visitor, press the button. If there is a call during the call time, the video monitor will go into standby mode.

To switch the conversation to an additional monitor, press the button again, all signal will sound on the secondary monitor. To cancel the transfer of the call to the secondary monitor, press the button again.

ATTENTION! This function only works when a call is received via channel 1 (4-wire connection).

When you receive a call from another calling panel during a call, "VISITOR IN PANEL 2" is displayed.

Opening the door lock.

To open the door lock, press the button, the display shows "OPEN LOCK OF THE PANEL". After opening the lock, the video monitor will go into standby mode.

Viewing videos from panels and cameras.

In the standby mode, press the button to view the picture from the calling panel 1, pressing the button again switches the image viewing from panel 2 (or the camera connected to the "Port 2").

Shared Call Function.

This function allows you to transfer information to all monitors in the house. To make a general call in standby mode, press and hold the button, "LOUD COMMUNICATION" will appear on the screen, additional monitors will display "LOUD COMMUNICATION ON".

Internal call to monitors.

To call in standby mode, press the button. On another monitor, press the button or button to cancel the call.

Adjusting the volume of the conversation.

In Talk mode, press or to adjust the volume.

Adjust brightness, contrast, chroma.

In the talk mode, when calling from the call panel, press the or buttons to enter the volume adjustment mode. To adjust the brightness, contrast, color, press the button to switch the adjustable parameter. Change the parameter values using the or buttons.

6. CONNECTION DIAGRAM.

Scheme connecting the METAMOM MKV-VM8 (ver. 1) in the maximum configuration is shown in Fig. 4.

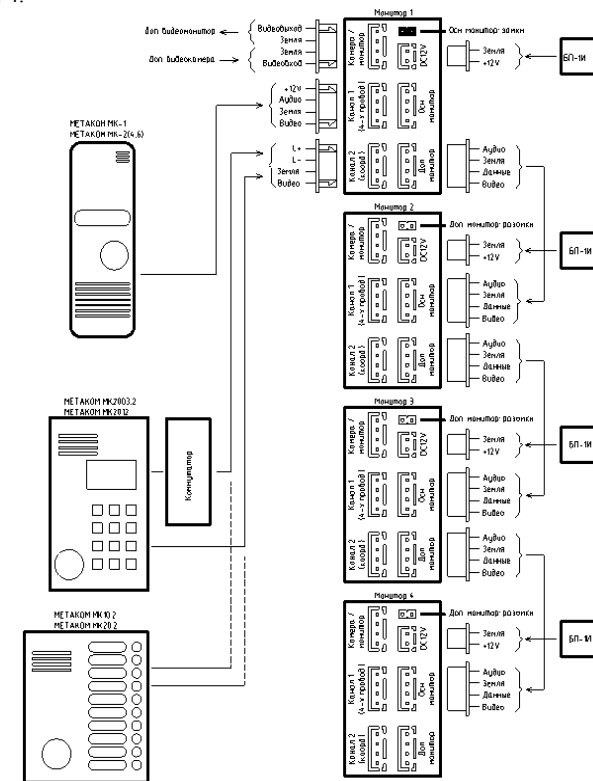


Fig. 4. Diagram of connecting the METAMOM MKV-VM8 (ver. 1) in the maximum configuration.

The call panel with a 4-wire connection system (for example METAKOM MK1 or similar in electrical parameters) is connected to channel 1 (CN1 connector of the video monitor, Fig. 5).

The calling panel with the coordinate addressing system is connected to channel 2 (video monitor connector CN2, figure 6).

ATTENTION! Connection to channel 2 must be done BEFORE powering the video monitor.

An additional video camera and a video surveillance monitor can be connected to the video monitor. These devices are connected to the connector CN5 in accordance with the one shown in Fig. 4 scheme.

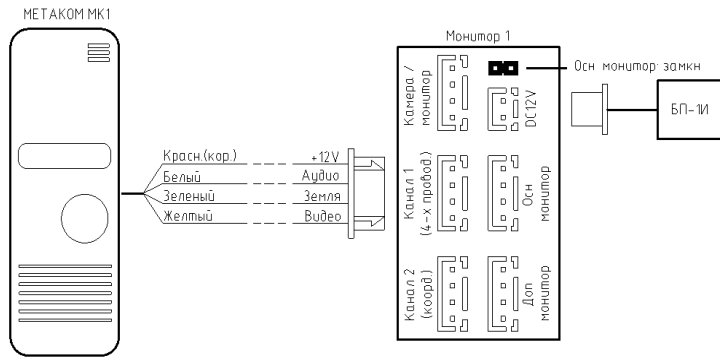


Fig. 5. Wiring diagram of the call panel with a 4-wire connection to the METAKOM video monitor MKV-VM8 (ver.1).

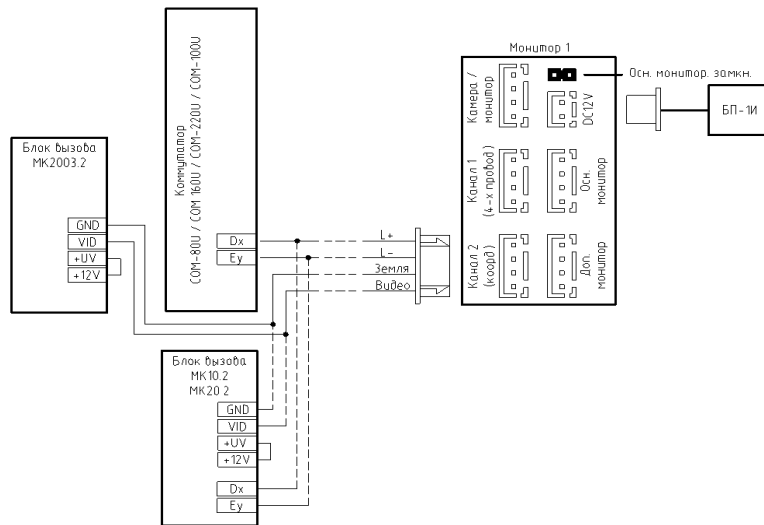
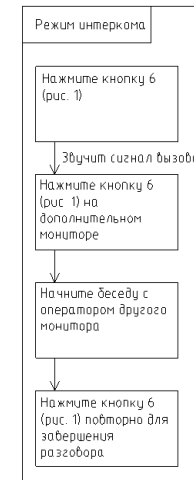


Fig. 6. Diagram of connecting the coordinate call panel to the METAKOM video monitor MKV-VM8 (ver.1).

The connection scheme for additional monitors (up to 3 additional monitors) is shown in Fig. 7. When creating the system, the video monitor to which the calling panels are connected, it is necessary to assign the main one (to close the jumper J3), the rest - to the slaves (on each slave video monitor to open jumper J3).

Internal audio communication (intercom mode)



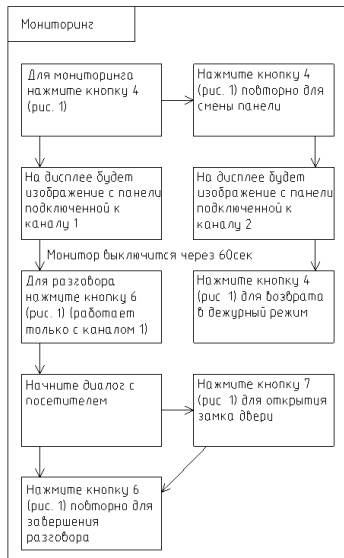
If there is a call on any channel during internal calls, then it will take precedence and the video monitor will switch to the call of the visitor.

Video surveillance (option)



If in the view mode, add. camera will receive a call on any of the channels, it will have priority and the video monitor will switch to the call of the visitor.

Monitoring

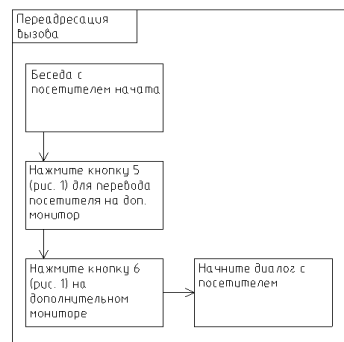


If you use only one call panel, then in the playback mode you can exit it by pressing the talk button again.

If you use two monitors, you can also watch on the second monitor.

If during the conversation with the visitor the monitor goes into standby mode after 60 seconds, the visitor needs to make a repeated call.

Call forwarding to an additional monitor



After the conversation is over, open the lock and / or end the conversation by pressing the button 6 (figure 1).

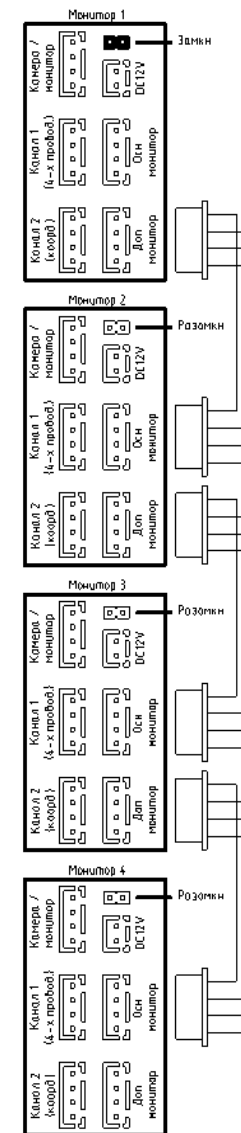


Fig. 7. Scheme for connecting additional monitors METAKOM MKV-VM8 (ver.1).

The connection scheme for the METAMOM MKV-VM8 (ver.2) is shown in Fig. 8.

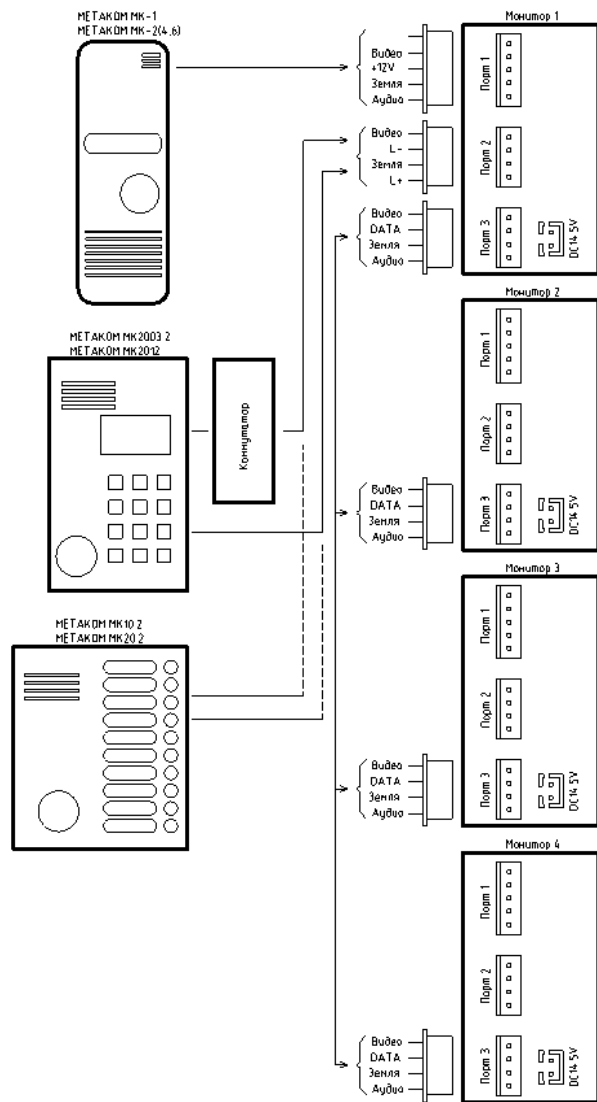


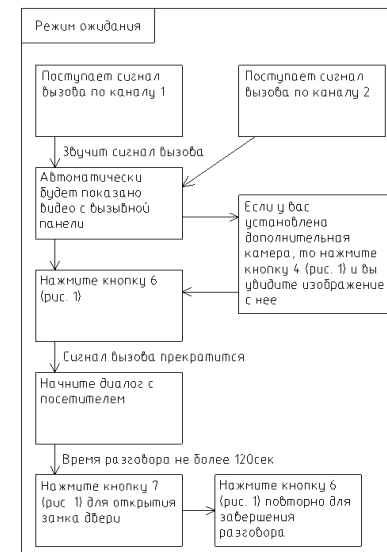
Fig. 8. Scheme for connecting the METAKOM MKV-VM8 (ver. 2) in the maximum configuration.

To the "Port 2" and "Port 3" connectors, you can connect additional video cameras (Figure 9). In this case, in the system settings of the video monitor, you must enable the corresponding function for the port.

7. DESCRIPTION OF WORK.

7.1. Description of the work of the video monitor METAKOM MKV-VM8 (ver.1)

Visitor call



If the call comes in two channels at the same time, then the call panel will be connected, the button on which was pressed earlier.

The sound and the image from the panel will be activated for another 20 seconds after unlocking the lock. This is done to ensure that the visitor has entered.

- Up to 10m (4x0.2mm²)
- Up to 15m (4x0.3mm²)
- Up to 25m (4x0.5mm²)

To improve video quality, the video signal line must be laid with a separate screened cable (Fig. 13, 14).

If the line is long, it is also recommended to have separate power to the calling panel and video monitor. For the calling panel, the METACOM BP-2S power supply unit or similar in characteristics (12V, 1A) is used.

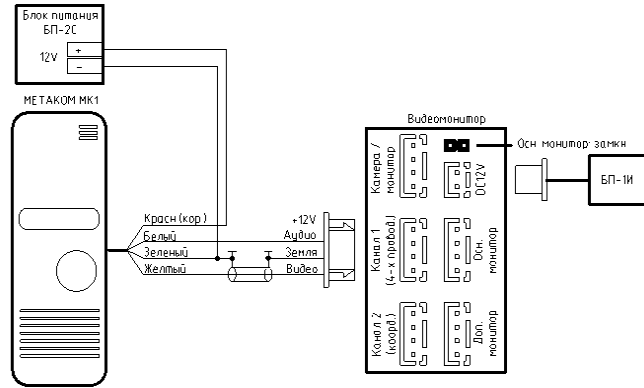


Fig. 13. Scheme of connection of the MONACOM video monitor MKV-VM8 (ver.1) with separate power to the calling panel.

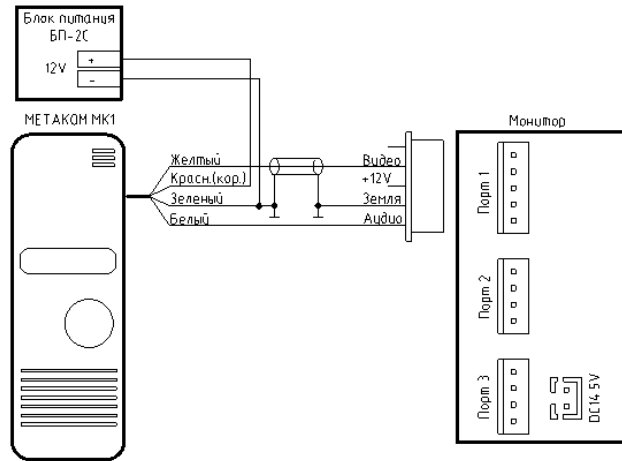


Fig. 14. Scheme of connection of the MONACOM video monitor MKV-VM8 (ver.2) with separate power supply of the calling panel.

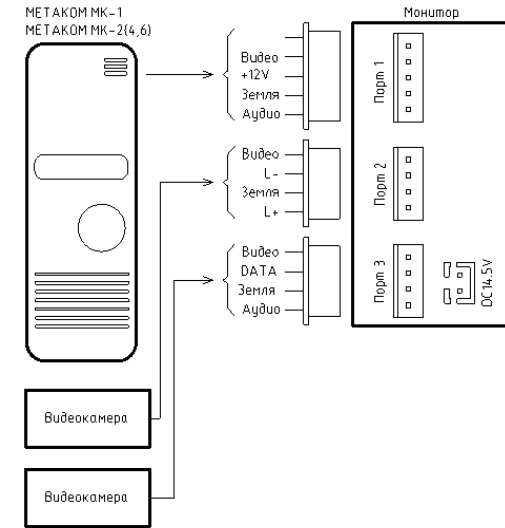


Fig. 9. Connecting additional cameras to the video monitor METAKOM MKV-VM8 (ver.2).

The call panel with a 4-wire connection system (for example METAKOM MK1 or similar in electrical parameters) is connected to the "Port 1" connector (figure 10).

The calling panel with the coordinate system of addressing is connected to the "Port 2" connector (Fig. 11).

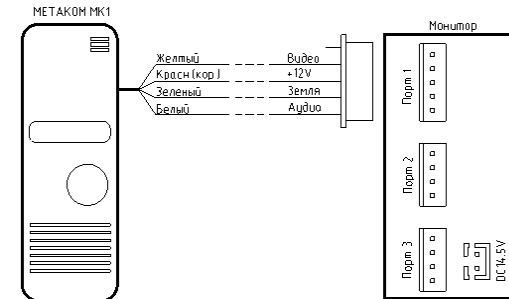


Fig. 10. Wiring diagram of the call panel with a 4-wire connection to the METAKOM video monitor MKV-VM8 (ver.2).

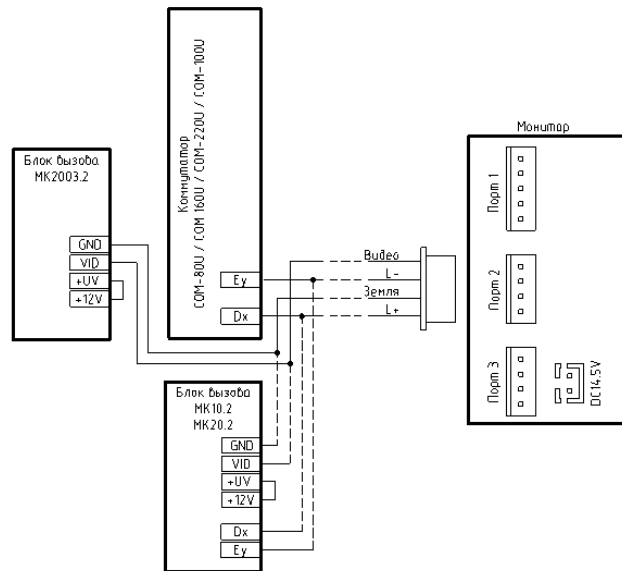


Fig. 11. Diagram of connecting the coordinate call panel to the METAKOM video monitor MKV-VM8 (ver.2).

The connection scheme for additional monitors (up to 3 additional monitors) is shown in Fig. 12.

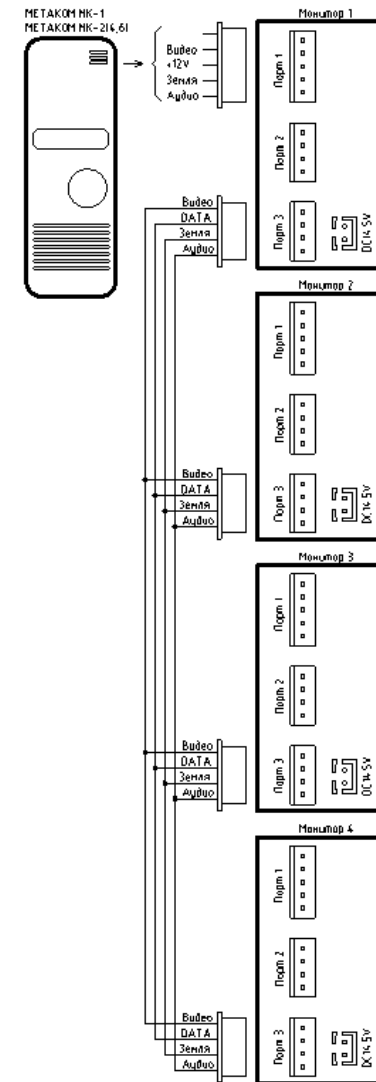


Fig. 12. Scheme for connecting additional monitors MEKAKOM MKV-VM8 (ver.2).

Requirements for communication lines.

To connect the video monitor to the outdoor panel, a 4-wire unshielded cable is used.

Cable length depending on section: