

# **PASSPORT**

## **VIDEO-SWITCHES NETWORK**

METAKOM MKV-CVN2, METAKOM MKV-CVN4.

User's manual



### 1. PURPOSE

**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:

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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:

Network switches METAKOM MKV-CVN2, MKV-CVN4 (hereinafter video switch) are intended for switching video signals in intercom systems based on the METACOM outdoor panels for the functional expansion of the gate-entrance system and are designed for connection to the interphone network. METAKOM MKV-CVN2 allows to switch video signal from 2 network outdoor panels MK2012-VN (or other compatible production of METACOM) to one access video line. METAKOM MKV-CVN4 allows to switch video signal from 4 network outdoor panels MK2012-VN (or other compatible production of METACOM) to one access video line. The METACOM video switch MKV-CVN2 differs from METAKOM MKV-CVN4 by the absence of digital lines A3 B3, A4 B4 and VID3 inputs, VID4.

### 2. PRINCIPLE OF OPERATION

In the standby mode, the access video line is connected to the video signal of the outdoor panel.

When the subscriber is called from any network outdoor panel installed on the "gate", the video switch connects the corresponding video line from the "gateway" outdoor panel to the access video line. After the conversation is over, the access video line is connected to the video signal of the outdoor panel.

### 3. CONNECTING VIDEO SWITCH

The outputs of the outdoor panels are connected to the corresponding inputs of the video switch, that is, A B of the first wiring block to the A1 of the V1 of the video switch, A to the second wiring block to the A2 B2 of the video switch, etc. GND of the call unit is the GND of the video switch, the VID of the first outdoor panel - VID1 of the video switcher, VID of the second block of the -VID2 call of the video switch, and so on.

From the access block of the call, the GND pin is connected to the GND terminal of the video switch. The output + 12V of the call-wiring block is connected to the 12V IN terminal of the video switch. The VID output terminal of the outdoor panel is connected to the VID IN terminal of the video switch. The DATA output of the call-arrival block is connected to the DT-IN terminal of the video switch. To the VID Out terminals, the GND of the video switch is connected to the access video line.

If the MK2003 (MK20003.1) is used as the caller's block of call or if the distance from the access block of the call to the video switch exceeds 15 meters, the video switch must be powered from the voltage 15 ... 18V supplied to the + U input. In this case, the 12V input of the video switch should not be connected.

The notation of the outputs of the video switch is shown in Fig. 1. The connection diagram of the video switch is shown in Fig. 2.

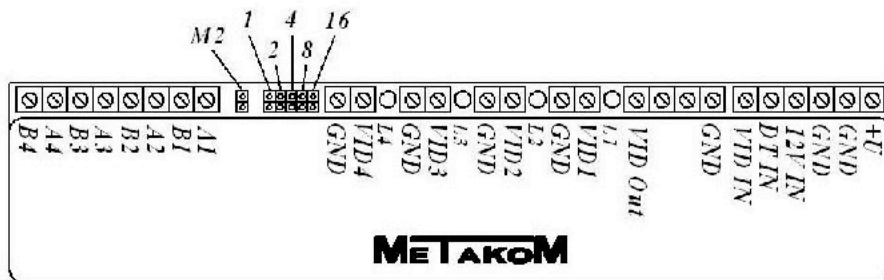


Figure 1. Designation of outputs and jumpers of the video switch.

#### 4. VIDEO-SWITCH PROGRAMMING

To make the video switch work, it is necessary to configure its network number in accordance with the installation diagram of the equipment. The network number is set using five jumpers 1 2 4 8 16 located near the terminal blocks. The network number of the video switch is calculated by the formula:

$A = J1 * 1 + J2 * 2 + J4 * 4 + J8 * 8 + J16 * 16$ , where  $JN = 1$  if the corresponding jumper is closed and  $JN = 0$  if it is open. The minimum number is 1, the maximum is 31.

To test the switching of video channels, the video switch has a test mode. Entering the test mode is accomplished by shorting the M2 jumper when the video switcher's power is off. When you turn on the power, you will enter the test mode. The output is made by removing the jumper.

In the test mode, the input video lines VID1, VID2, VID3, VID4 (VID1, VID2 for METAKOM MKV-CVN2) are alternately switched to the VID Out output.

Valid for filling

**TEAR-OFF COUPON N1  
ON WARRANTY REPAIR VIDEO-COMMUTTOR  
NETWORK  
MKV-CVN2, MKV-CVN4**

**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 \_\_\_\_\_  
(day, month, year)

Installer \_\_\_\_\_  
(signature or stamp)

The stamp of the organization that conducted the installation:

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:

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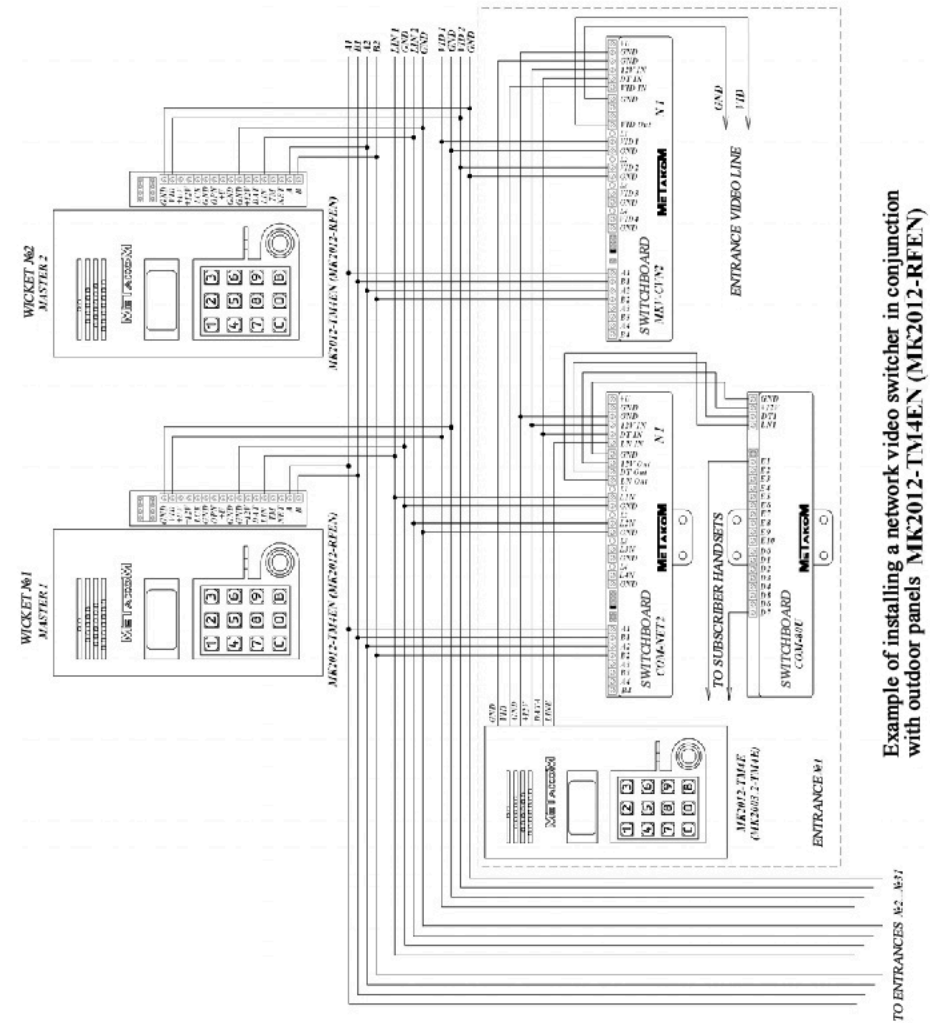


Fig.2. Connecting the video switch.

Example of installing a network video switcher in conjunction with outdoor panels MK2012-TM4EN (MK2012-RELN)

**5. CONTENTS OF DELIVERY**

Video switch Network METAKOM MKV-CVN4 (MKV-CVN2)	1 pcs.
Passport	1 pcs.
Fasteners	1 set
Individual packing	1 pcs.

**6. Warranty.**

The manufacturer guarantees the compliance of the network switch METAKOM MKV-CVN4 (MKV-CVN2) with the requirements of MTKM.460830.001 TU when the user applies the rules of use, storage and transportation. Warranty period - 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.

If there is a violation of the integrity of the seals and / or the presence of mechanical, electrical or other types of damage caused by improper transportation, storage, operation or actions of third parties, no claims for quality are accepted and no warranty repair is performed.

**7. CERTIFICATE OF ACCEPTANCE**

The video network switch METAKOM

- MKV-CVN2
- MKV-CVN4

The video network switch METAKOM meets the specifications and is considered suitable for operation.

Release date \_\_\_\_\_

OTK representative \_\_\_\_\_ seal

***The address of the manufacturer***

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

LLC "Metacom-plus"  
Tel /fax: (4832) 68-28-26  
Tel. (4832) 68-37-95  
http:// www.metakom-plus.ru E-mail:

Valid for filling

**TEAR-OFF COUPON N1  
VIDEO-SWITCHES NETWORK METAKOM  
MKV-CVN2, METAKOM MKV-CVN4**

To be completed by the manufacturer

Serial number of the product \_\_\_\_\_

Release date \_\_\_\_\_  
( day, month, year)

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Stamp of the trade organization:

Date of commissioning \_\_\_\_\_  
( day, month, year)

Installer \_\_\_\_\_  
( signature or stamp)

The stamp of the organization that conducted the installation:

Cut-off line Counterfoil coupon N1 for warranty repair of the METACOM doorphone MKV-CVN2, CVN4