






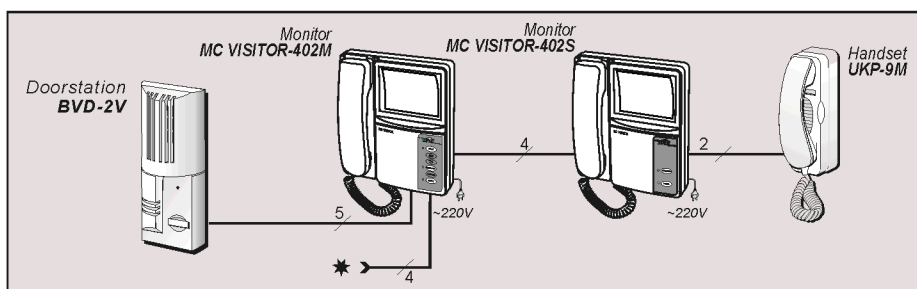
EQUIPMENT FOR APARTMENT VIDEO DOORPHONES

MC VISITOR-402M



Features:

- Call to subscriber at pressing  button on doorstation
- Duplex intercom between visitor and subscriber
- Operation with additional handset or monitor
- Operation with two doorstations (entrance and apartment)
- Videomonitoring of an entrance / apartment door zone ( **MONITOR** button)
- Entrance door unlocking ( **DOOR** button)
- LED indication of operating modes
- Ringer volume, brightness, contrast and color (MC VISITOR-402C) adjustment
- Nonvolatile 32-image memory
- Automatic recording of visitor's image
- Visitor's image recording ( **RECORD** button)
- Recorded images viewing ( **PREV** or **NEXT** button)
- Enabling / disabling the time & date indication

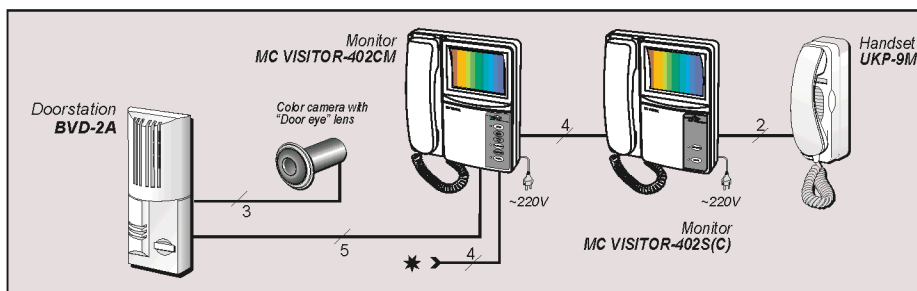


* - Audio & Video from apartment videodoorphones' commutator.
BK-4V alone or BK-4(10) jointly with RVS-4 may be used

MC VISITOR-402CM



MODEL	MC VISITOR-402M	MC VISITOR-402CM
Videosystem	CCIR, Monochrome	CCIR, PAL
Audio / video inputs	Two / two	
Operating voltage	~ 110 + 240; 50-60 Hz	
Power consumption	18 VA max.	
Lock voltage	+(16 ± 0.5) VDC, continuous: 0.9A max / pulse: 1.5A max	
Temperature range	from +5°C to +40°C	
Dimensions, mm	200 x 235 x 82	
Weight, kg	1.4	



* - Audio & Video from apartment videodoorphones' commutator.
BK-4V alone or BK-4(10) jointly with RVS-4 may be used

Maximum length of wires

CIRCUIT		LENGTH, M		
		Diameter 0.3 mm	Diameter 0.5 mm	Diameter 0.75 mm
Audio	Monitor - doorstation	20	60	80
	Monitor - electromagnetical lock VIZIT-ML400	—	25	50
Video	Monitor - doorstation	20	60	80
	Monitor - electromagnetical lock (12V, 1.2A max)	—	10	25

Cross-section 0.07 mm² | Cross-section 0.2 mm² | Cross-section 0.5 mm²

OPERATING INSTRUCTION

MC VISITOR-402M (MC VISITOR-402CM) monitor is intended for use in 'VIZIT' videodoorphones..

Monitor has 2-video inputs and built-in 32 B&W images nonvolatile memory module.

Following versions are available:

MC VISITOR-402M – B&W image monitor

MC VISITOR-402CM – Color image monitor.

VIDEODOORPHONE FEATURES

- Nonvolatile 32-image memory
- Call to subscriber at pressing "🔔" button on doorstation
- Duplex intercom between visitor and subscriber
- Videomonitoring of an entrance / apartment door zone
- Switching of video signals of connected cameras
- Entrance door unlocking at pressing **DOOR** button on the monitor
- LED indication of operating modes
- Ring volume, brightness, contrast and color (**MC VISITOR-402CM**) adjustment at the monitor
- Video signal output

Video-monitoring may be carried out by means of two cameras – doorstation's built-in camera and an additional one.

MONITOR SPECIFICATIONS

Operating voltage (50 - 60 Hz), V	110...240
Self power consumption, VA, max	18
Video input (PAL / CCIR):	
voltage, V, p-p	1.0...1.8
impedance, Ohm	470
Video output voltage, V, p-p	0.5...1.1
Dimensions, mm	200x235x82
Weight, kg	1.4

OPERATING CONDITIONS

Ambient temperature range: from + 5°C to + 40°C;

Relative humidity of air: up to 93% at 25°C.

PARTS LIST

Monitor MC VISITOR-402M (-402CM) , pc.	1
Accessories (montage kit), pc.	1
Operating instruction, pc.	1
Package box, pc.	1

NOTE. Parts lists and specifications of doorstation and other devices, which may be incorporated into videodoorphone system, are given in their instructions.

SAFETY INSTRUCTIONS

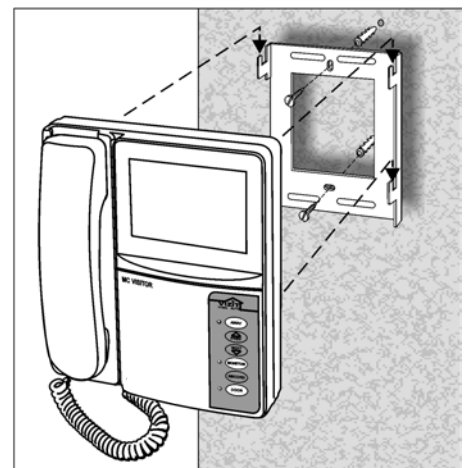
ATTENTION! Switched on monitor contains high voltage. To avoid damage or an electric shock do not perform connections or repair when power is on!

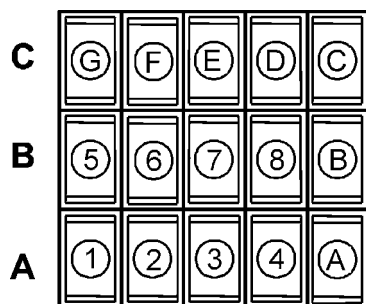
INSTALLATION ORDER

1. Mount the monitor on a wall by means of steel mounting bracket and screws from the montage kit (picture 1).
2. Terminals layout is given on picture 2.
3. Connect all wires to corresponding terminals at monitor's rear panel according to picture 5,6,7.

If monitor is used without additional handset or monitor, the **load equivalent** between CG and CF terminals should be connected as shown on picture 4.

Picture 1 - Mounting drawing.





Terminal	Circuit	Application
CG	HS -	Additional handset or monitor (-)
CF	HS +	Additional handset or monitor (+)
CE	VO	Video output
CD	GND	Grounding wire
CC	GND	Grounding wire
B5	LN2-	Monitor - doorstation 2 grounding wire
B6	LN 2+	Monitor - doorstation 2 communication line
B7	Ec 2	Power for camera 2
B8	VI 2	Video input 2
BB	+E	Power for additional equipment
A1	LN 1 -	Monitor - doorstation 1 grounding wire
A2	LN 1 +	Monitor - doorstation 1 communication line
A3	Ec 1	Power for camera 1
A4	VI 1	Video input 1
AA	+E	Power for additional equipment

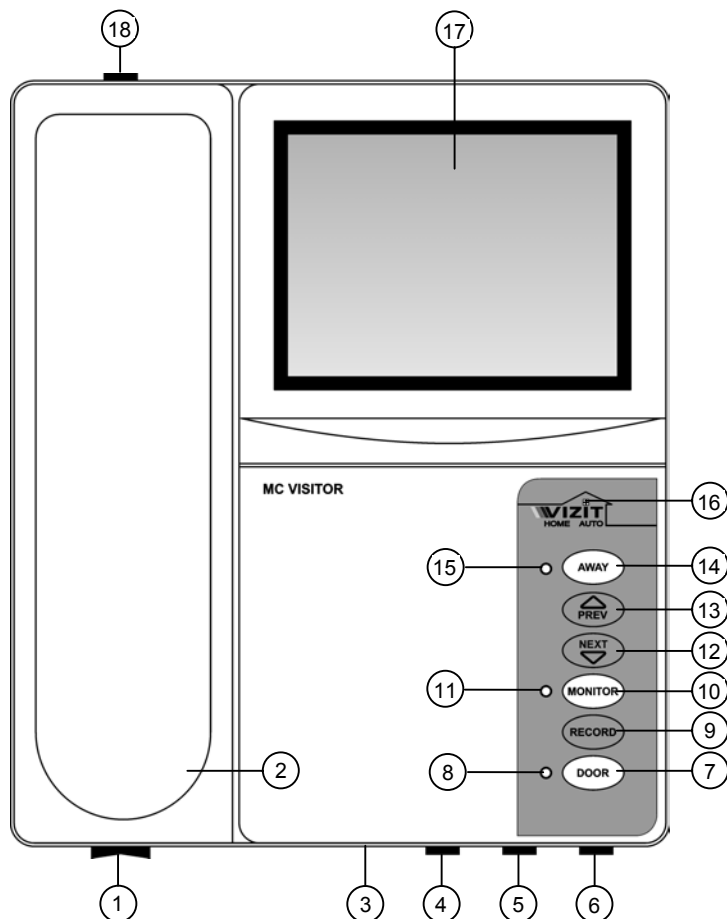
Picture 2 - Terminals layout and designation.

Acceptable cross-section of wires depends on their length (see next table).

CIRCUIT	LENGHT, m			
	10	20	50	80
Monitor ↔ Doorstation	0.05	0.10	0.2	0.5
Monitor ↔ El. Mech. lock ($I = 1.5A \text{ max}$)	0.20	0.35	1.0	1.5
Monitor ↔ El. Magn. lock (VIZIT-ML400)	0.10	0.20	0.5	0.75
Cross-section, MM^2 , min				

ATTENTION! Impedance of an electromechanical lock should not be less than 10 Ω .
Impedance of an electromagnetic lock should not be less than 20 Ω .

Installation order of doorstation and other devices, which may be incorporated into videodoorphone system, is given in their instructions.




1. Power switch
2. Handset
3. Video signal output (**MC VISITOR-402CM**)
4. Brightness adjuster
5. Contrast adjuster
6. Color adjuster (**MC VISITOR-402CM**)
7. **DOOR** – lock control button
8. **DOOR**– lock LED indicator
9. **RECORD** button
10. **MONITOR** button
11. **MONITOR** mode LED indicator
12. **NEXT** – recorded images viewing button
13. **PREV** – recorded images viewing button
14. **AWAY** button
15. **AWAY** mode LED indicator
16. **POWER ON** LED indicator
17. Screen
18. Ringer volume adjuster

Picture 3 - Operating controls and indicators layout.

FUNCTIONAL CHECK AND OPERATING ORDER

Before switching on the power please verify all electric connections

- ⚡ Switch on the power with switch **1**. LED **16** glows.
- 🔔 Press "" button at the doorstation. Two-tone call signal rings simultaneously at doorstation and monitor while button is pressed. Adjust ringer volume with adjuster **18**, if necessary. An image from doorstation's camera with current time & date appears on the screen **17**. Time & date displaying sets up in MENU.
- 📞 Pick up the handset **2** and check duplex communication with the doorstation. Set brightness, contrast and color with adjusters **4**, **5** and **6**.
- 🔑 Press **DOOR** button **7**. LED **8** glows, entrance door unlocks.
- 📞 Hang up the handset. Monitor screen shuts off, stand-by mode activates.
- 📺 Press **MONITOR** button **10** for a short while. LED **11** glows, an image from doorstation's camera appears on the screen. Press **MONITOR** button again - an image from additional camera appears instead. Thus, video switching works at every press on this button.
Press the **DOOR** button - entrance door unlocks. At 65 ± 10 sec. expiration after **MONITOR** button pressing stand-by mode activates.
- 🔍 Pick up the handset in stand-by mode (without a call signal) - duplex communication sets between monitor and doorstation, an image appears on the screen. Entrance door unlocks at **DOOR** button pressing.

If the handset is not hung up longer than 65 ± 10 sec., then stand-by mode activates automatically.


IMAGE RECORDING / VIEWING

Built-in image memory module provides the following functions:

- Automatic recording of visitor's image when call signal is received from doorstation (in "AWAY" mode)
- AWAY LED blinks when new images are recorded (in "AWAY" mode)
- Visitor's image recording at **RECORD** button pressing (in intercom mode)
- Recorded images viewing at **PREV** or **NEXT** buttons pressing
- Enabling / disabling the time & date & day indication
- Saving all data and time at power off

The recording module capacity is 32 images.

The images are recorded in B&W, independently of B&W or color camera.

- **To record** an image on the screen press **RECORD** button ("AWAY" mode should be off).
Current time & date indication disappears for a while. After that it is possible to record a new image.
When video memory is full, then the image being recorded replaces the oldest one.
- **To record** visitor's images **automatically** press **AWAY** button – "AWAY" mode turns on, LED **15** glows.
After 10 sec monitor is ready to record an image. At pressing  button by a visitor his image will be recorded after 3 sec. delay. Next record is available only after 90...100 sec.
LED **15** blinks when new images are recorded, but not viewed.
PREV, **NEXT** and **RECORD** buttons do not function in "AWAY" mode.
To exit "AWAY" mode press **AWAY** button once – LED **15** shuts off.
Power failure does not reset "AWAY" mode.
- **Viewing** of recorded images is possible only if "AWAY" mode is off.
Press **PREV** (previous) or **NEXT** button. The newest image with its number (-01) and time & date of record appears on the screen. The presence of time & date depends on **Display** setting in MENU.
Previous image is number -02 and the oldest is -32. **MONITOR** button does not function while viewing goes on.
To escape viewing press **AWAY** button once (AWAY mode does not turn on) or do not press any button for 60 sec.

MENU

To access MENU press **PREV** and **NEXT** buttons simultaneously.
Three initial MENU options appear on the screen:

- **OK** – Save & Exit
- **Clock** – time and date setting
- **Display** – displaying of time, date and day of the week

Choose option with **PREV** or **NEXT** buttons and press **RECORD** once.

For time and date setting select **Clock** option. Next submenu appears:

- **Cancel** – No save & Exit
- **Year** **03**
- **Month** **04**
- **Date** **05**
- **Hours** **16**
- **Minutes** **50**
- **OK** – Save & Exit

Choose option with **PREV** or **NEXT** and press **RECORD**.

Adjust value with **PREV** or **NEXT** and press **RECORD**.

Choose **OK** with **PREV** or **NEXT** and press **RECORD**.

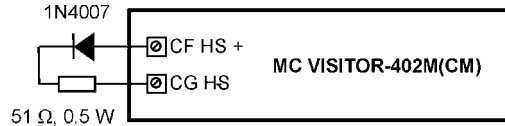
At selecting **Display** option next submenu appears:

- **OK** – Save & Exit
- **Time** **yes**
- **Date** **yes**
- **Day** **yes**

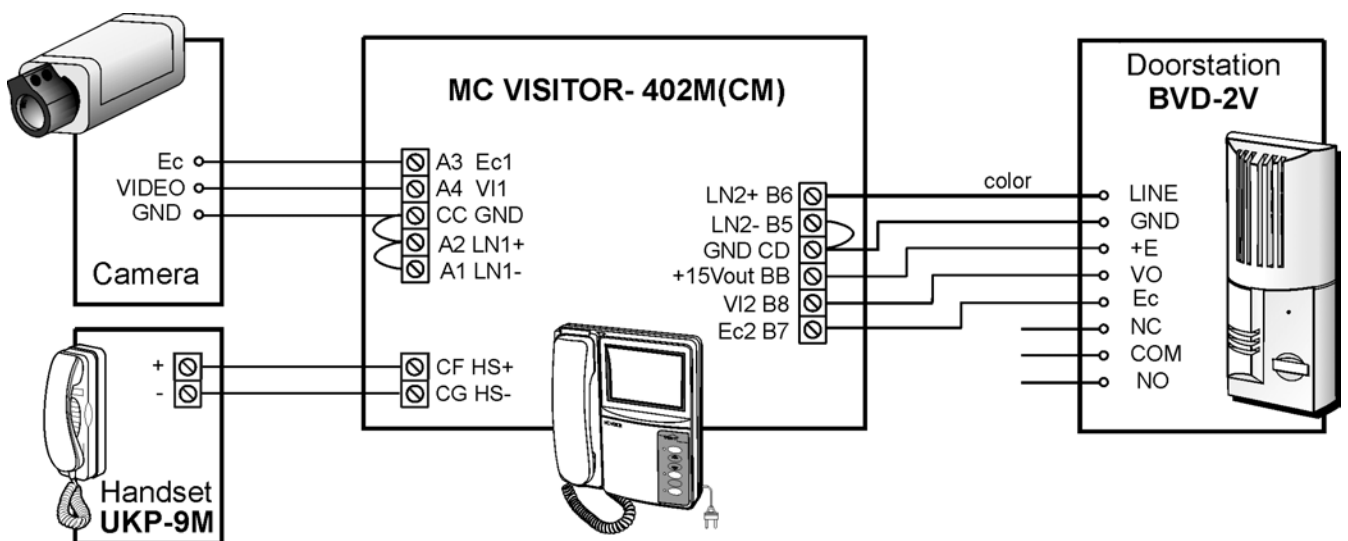
Choose option with **PREV** or **NEXT** and press **RECORD**.

Choose **yes** or **no** with **PREV** or **NEXT** and press **RECORD**.

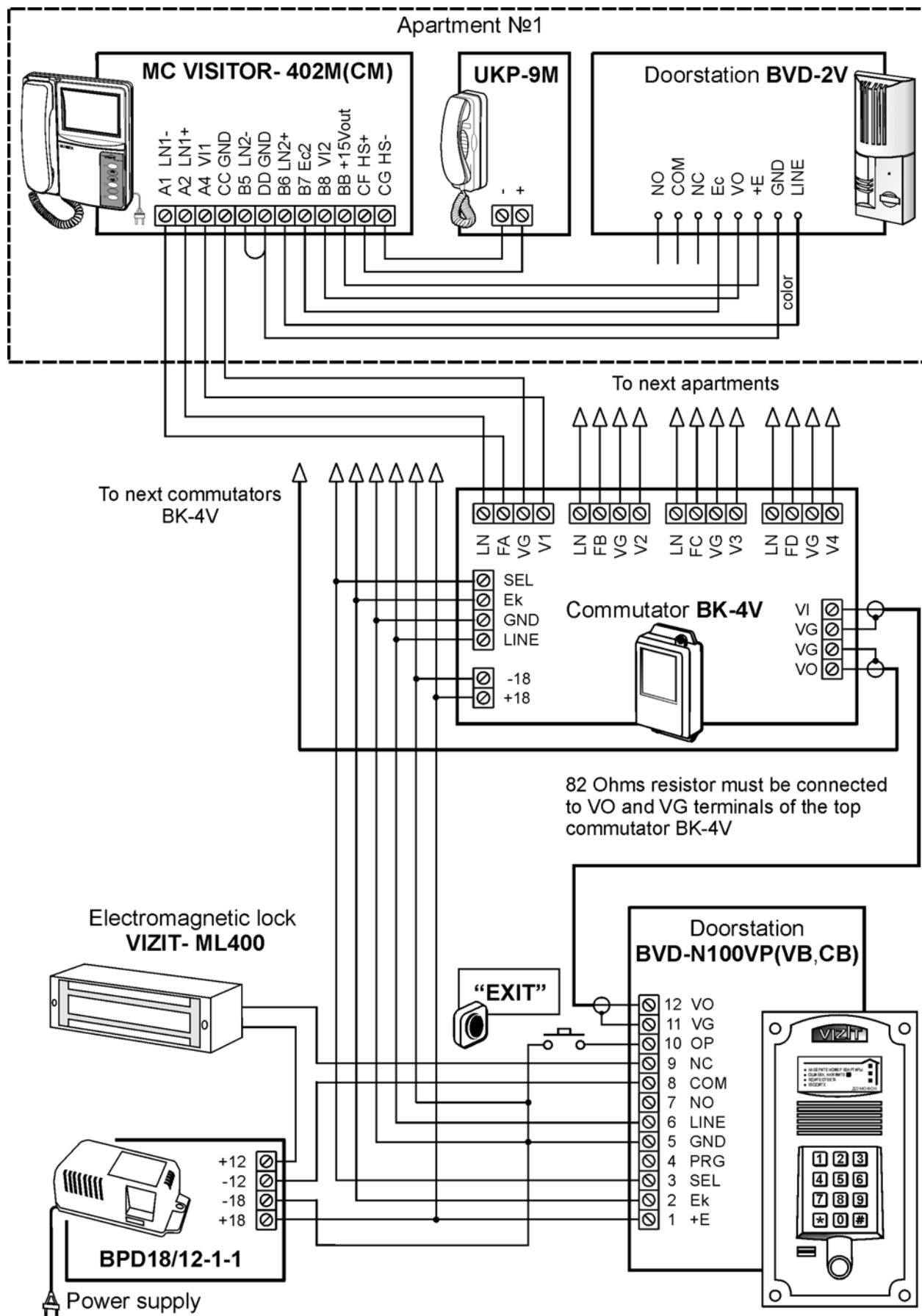
Choose **OK** with **PREV** or **NEXT** and press **RECORD**.



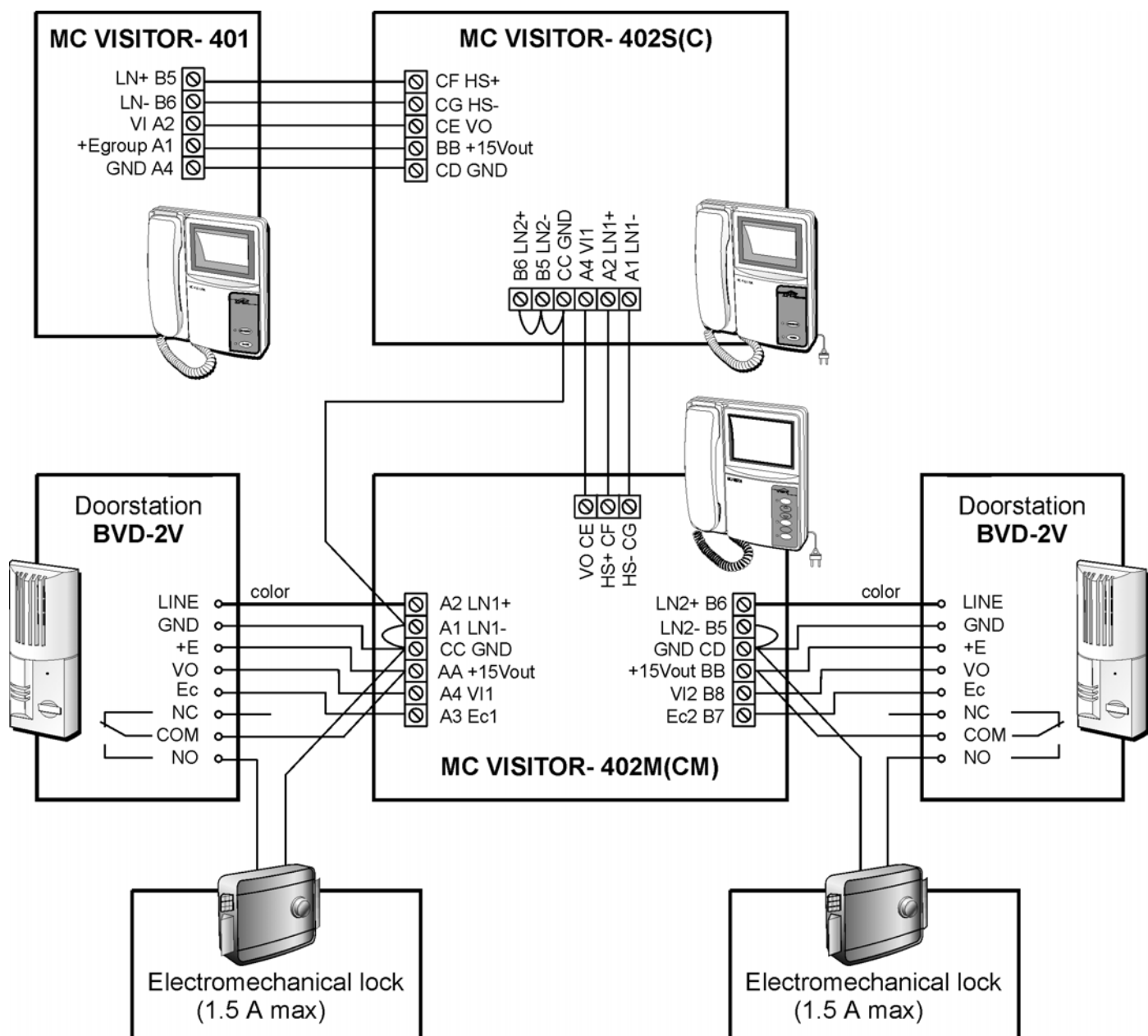
Picture 4. Load equivalent connecting instead of parallel handset or monitor.



Picture 5 – Connection diagram for **MC VISITOR-402M(CM)** with doorstation **BVD-2V**, outdoor camera and additional handset **UKP-9M**.



Picture 6 – Connection diagram for **MC VISITOR-402S(C)** in apartment videodoorphone system.



Picture 7 – Connection diagram for **MC VISITOR-402M(CM)**, **MC VISITOR-402S(C)**, **MC VISITOR – 401** with 2 doorstations **BVD – 2V**, and 2 electromechanical locks.