




EQUIPMENT FOR APARTMENT VIDEODOORPHONES

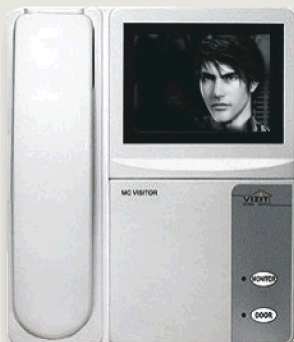
400-SERIES MONITORS FOR APARTMENT VIDEODOORPHONES

Features:

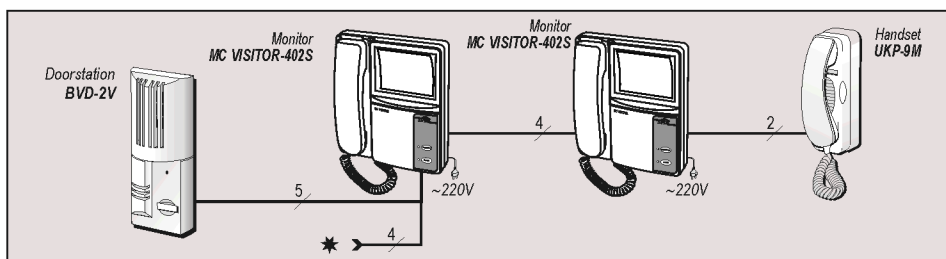
- Call to subscriber at pressing  button on doorstation
- Duplex intercom between visitor and subscriber
- Operation with additional handset or monitor
- Operation with two doorstations (entrance and apartment)
- Videomonitoring of an entrance / apartment door zone ( **MONITOR** button)
- Entrance door unlocking ( **DOOR** button)
- LED indication of operating modes
- Ring volume, brightness, contrast and color (for MC VISITOR-402C) adjustment

B&W monitors

MC VISITOR-402
MC VISITOR-402S



MODEL	MC VISITOR-402	MC VISITOR-402S
Videosystem	CCIR, Monochrome	
Audio / video inputs	Two / two	
Operating voltage	$+(16 \dots 21)$ VDC	$\sim 110 \div 240$; 50-60 Hz
Power consumption	8 W max.	15 VA max.
Lock voltage	—	+16 VDC, cont.: 0.9A / pulse: 1.5A max
Temperature range	from +5°C to +40°C	
Power supply	BPD18/12-1-1	built-in
Dimensions, mm	200 x 235 x 82	
Weight, kg	1.2	1.4



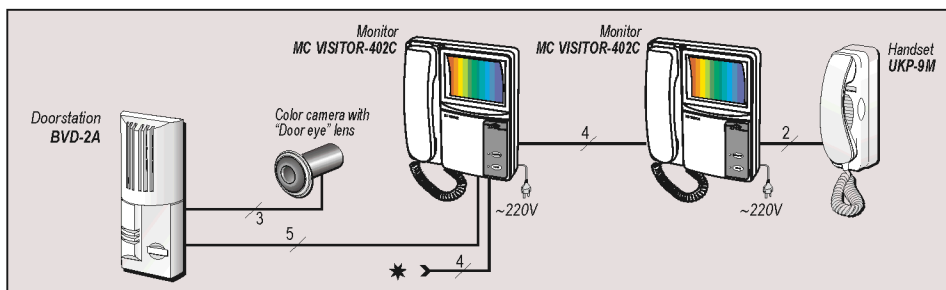
★ - Audio & Video from apartment videodoorphones' commutator. BK-4V alone or BK-4(10) jointly with RVS-4 may be used.

MC VISITOR-402C



Color monitor

MODEL	MC VISITOR-402C
Videosystem	CCIR, Monochrome
Audio / video inputs	Two / two
Operating voltage	$\sim 110 \div 240$; 50-60 Hz
Power consumption	15 VA max.
Lock voltage	$+(16 \pm 0.5)$ 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 - doorstation	20	60	80
Power	Monitor - electromagnetical lock VIZIT-ML400	—	25	50
	Monitor - electromechanical lock (12V, 1.2A max)	—	10	25
		Cross-section, 0.07 mm ²	Cross-section, 0.2 mm ²	Cross-section, 0.5 mm ²

OPERATING INSTRUCTION

MC VISITOR-402 monitor is intended for use in 'VIZIT' videodoorphones.

MC VISITOR-402 is B&W image monitor

FEATURES

- 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 and contrast adjustment at the monitor

MONITOR SPECIFICATIONS

Supply voltage, VDC ,	16...21
Self power consumption, W , max	8
Input videosignal	CCIR, 1 V p-p
Dimensions, mm	200x235x82
Weight, kg	1.2

PARTS LIST

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

OPERATING CONDITIONS

Ambient temperature range: from + 5°C to + 40°C;
Relative humidity of air: up to 93% at 25°C.

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

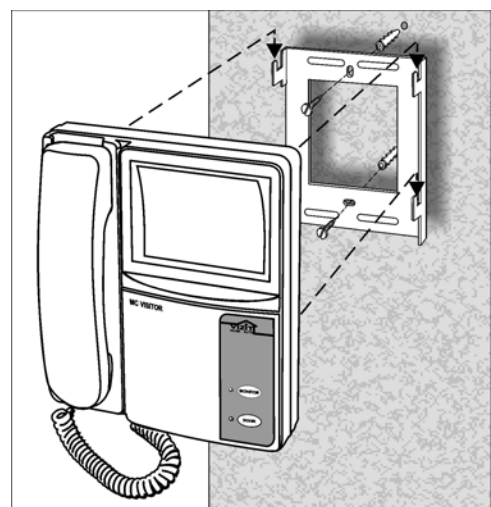
SAFETY INSTRUCTIONS

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

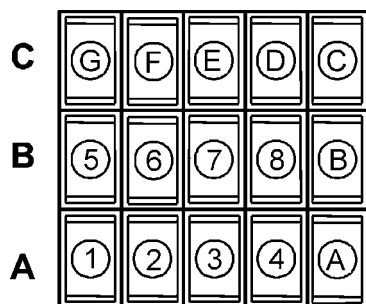
INSTALLATION ORDER

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.



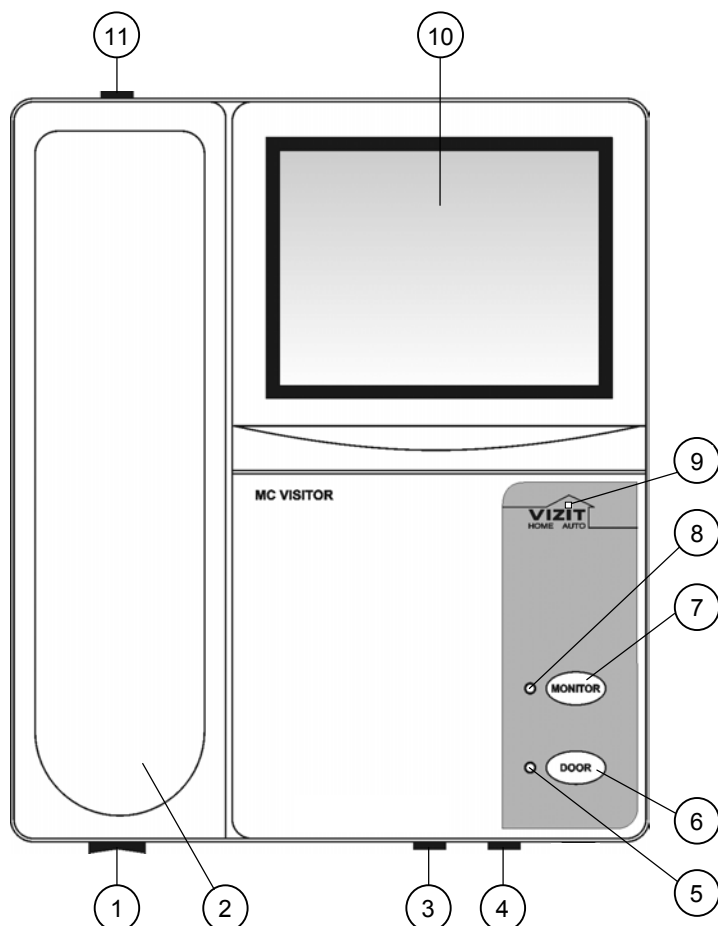
Terminal	Circuit	Application
CG	HS -	Additional handset or monitor (-)
CF	HS +	Additional handset or monitor (+)
CE	VO	Video output
CD	GND	Grounding wire
CC	GND	Grounding wire
B5	LN 2 -	Monitor - doorstation 2 grounding wire
B6	LN 2 +	Monitor - doorstation 2 communication line
B7	Ec 2	Power for camera 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 monitor

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. Brightness adjuster
4. Contrast adjuster
5. **DOOR**— lock LED indicator
6. **DOOR**— lock control button
7. **MONITOR** button
8. **MONITOR** mode LED indicator
9. **POWER ON** LED indicator
10. Screen
11. Ringer volume adjuster

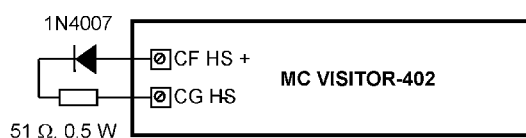
Picture 3 - Operating controls and indicators layout.

FUNCTIONAL CHECK AND OPERATING ORDER

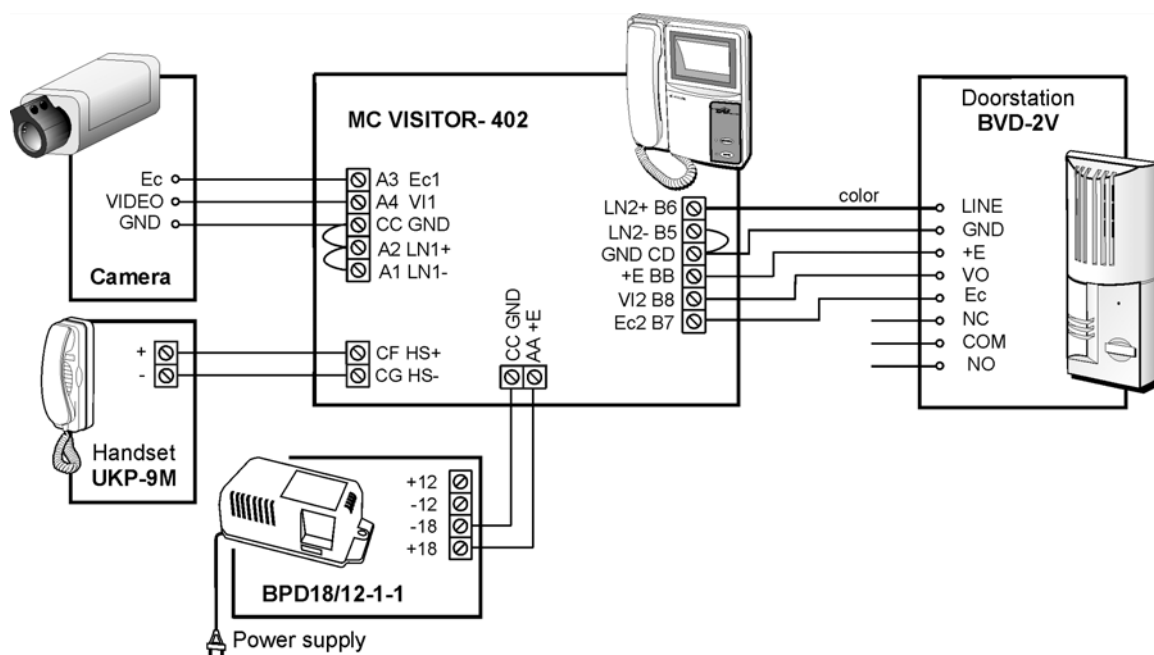
Before switching on the power please verify all electric connections

- ⚡ Switch on the power with switch **1**. LED **9** 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 **11**, if necessary.
- 📞 Pick up the handset **2** and check duplex communication with the doorstation. Set brightness and contrast with adjusters **3** and **4**.
- 🔑 Press **DOOR** button **6**. LED **5** glows, entrance door unlocks.
- 📞 Hang up the handset. Monitor screen shuts off, stand-by mode activates.
- 📺 Press **MONITOR** button **7** for a short while. LED **8** 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.

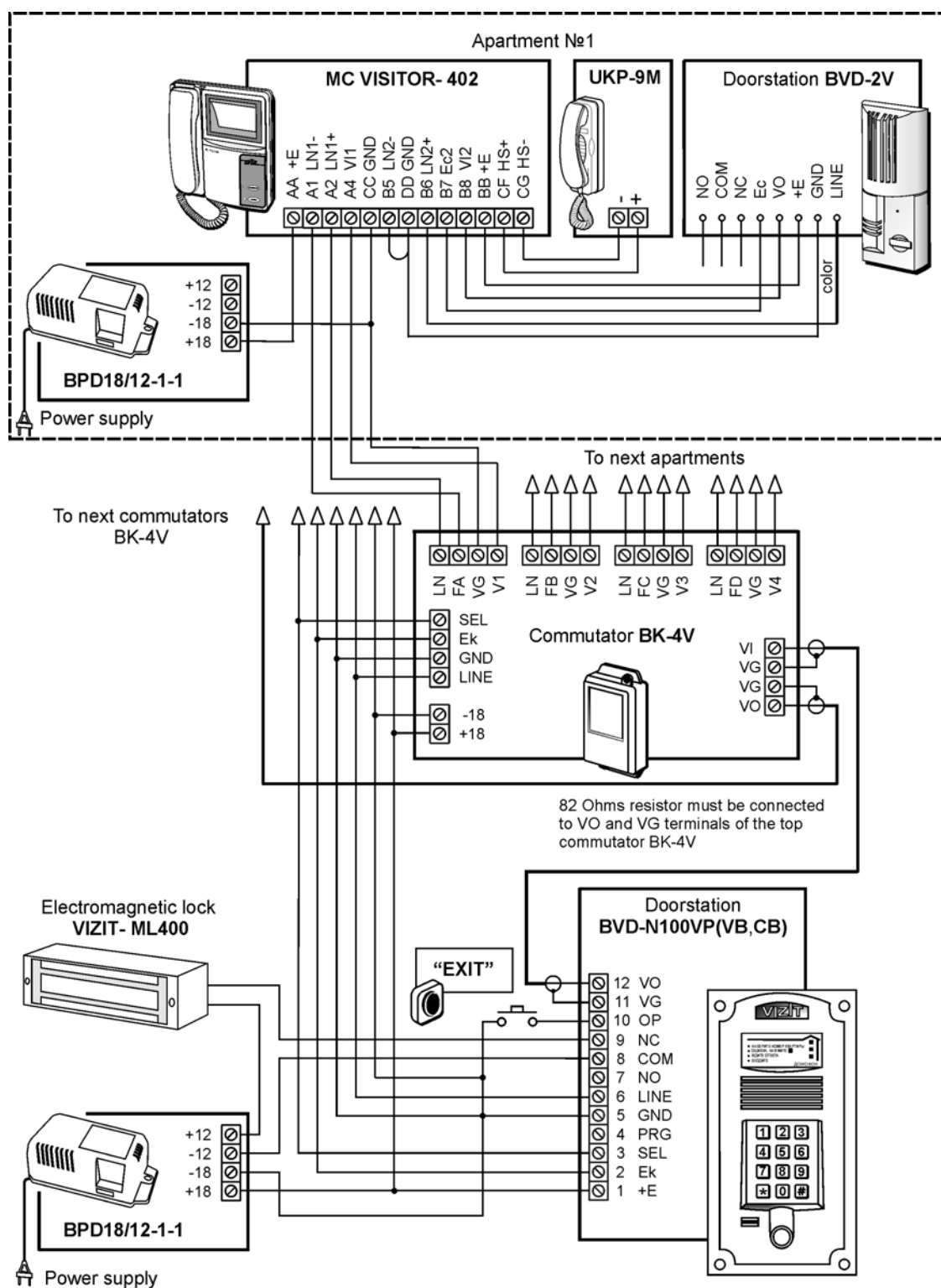
If the handset is not hung up longer than 65 ± 10 sec., then stand-by mode activates automatically.



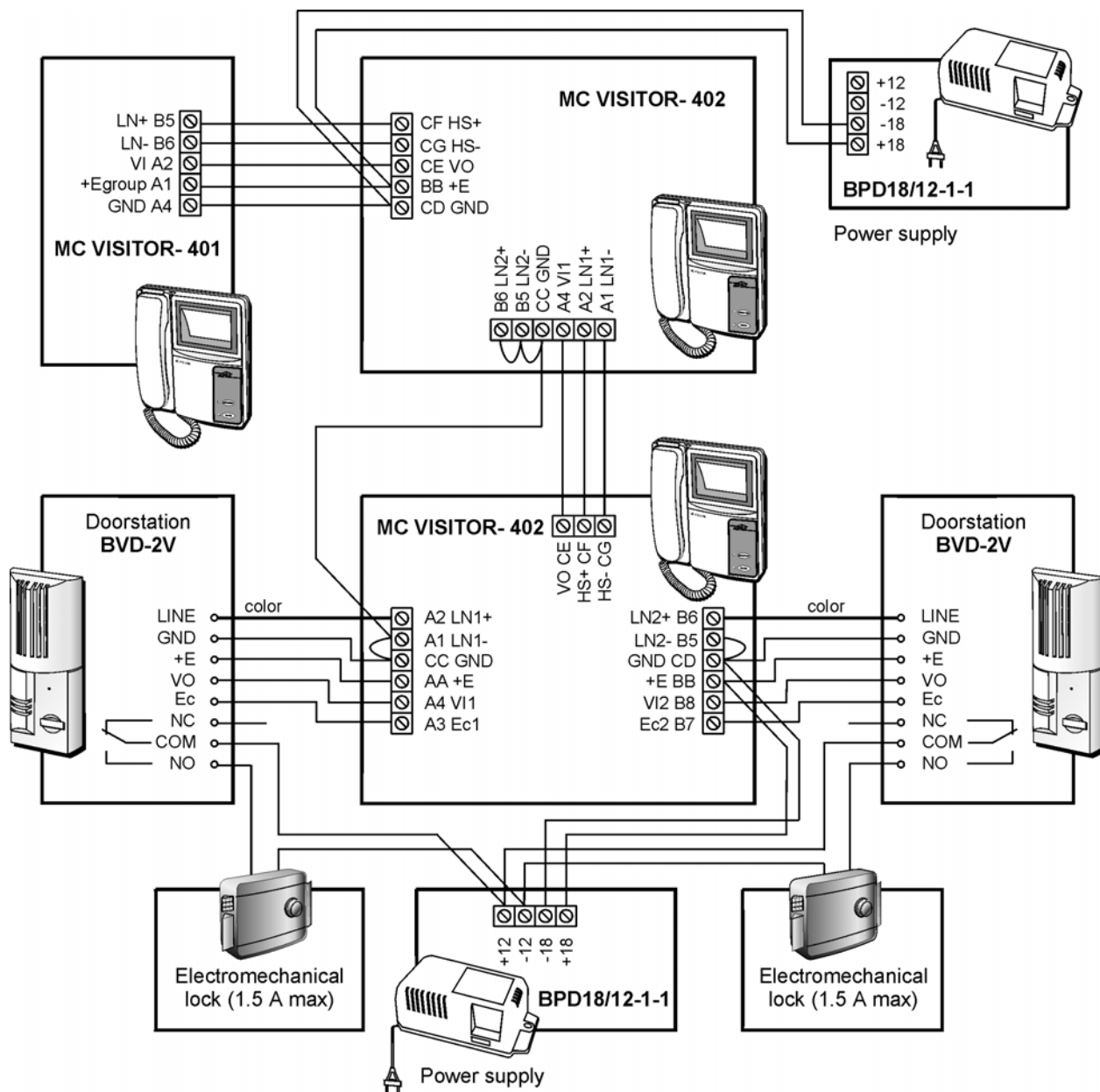
Picture 4 - Load equivalent connecting instead of parallel handset or monitor.



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



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



Picture 7 – Connection diagram for 2 **MC VISITOR-402** with 2 doorstations **BVD – 2V**, **MC VISITOR – 401** and 2 electromechanical locks.

OPERATING INSTRUCTION

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

Monitor has 2-video inputs and built-in power supply

Following versions are available:

MC VISITOR-402S – B&W image monitor

MC VISITOR-402C – Color image monitor

FEATURES

- 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-112C**) adjustment at monitor

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	15
Dimensions, mm	200x235x82
Weight, kg	1.4

PARTS LIST

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

OPERATING CONDITIONS

Ambient temperature range: from + 5°C to + 40°C;
Relative humidity of air: up to 93% at 25°C.

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

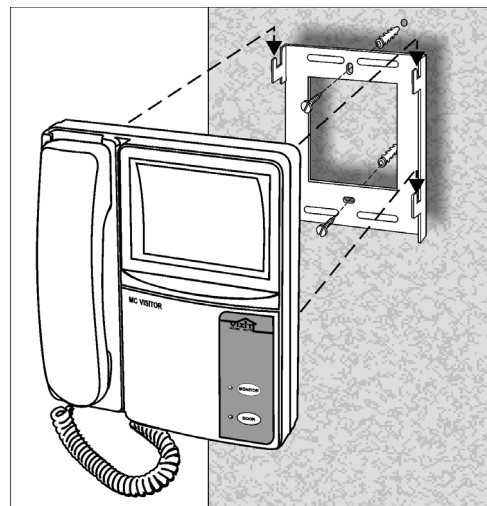
SAFETY INSTRUCTIONS

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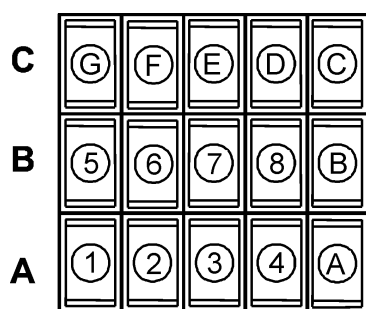
INSTALLATION ORDER

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 pictures 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

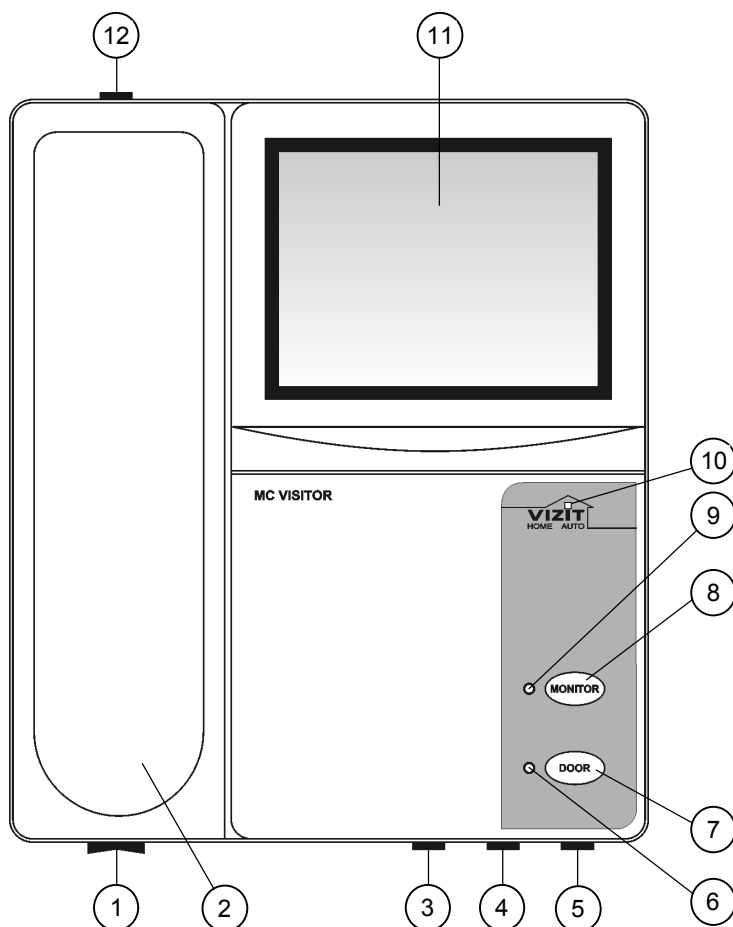


Terminal	Circuit	Application
CG	HS -	Additional handset or monitor (-)
CF	HS +	Additional handset or monitor (+)
CE	VO	Video output
CD	GND	Grounding wire
CC	GND	Grounding wire
B5	LN2-	Monitor - doorstation 2 grounding wire
B6	LN 2+	Monitor - doorstation 2 communication line
B7	Ec 2	Power for camera 2
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.

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. Brightness adjuster
4. Contrast adjuster
5. Color adjuster (**MC VISITOR-112C**)
6. **DOOR** – lock LED indicator
7. **DOOR** – lock control button
8. **MONITOR** button
9. **MONITOR** mode LED indicator
10. **POWER ON** LED indicator
11. Screen
12. Ringer volume adjuster

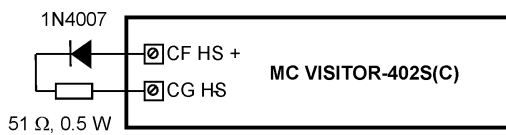
Picture 3 - Operating controls and indicators layout.

FUNCTIONAL CHECK AND OPERATING ORDER

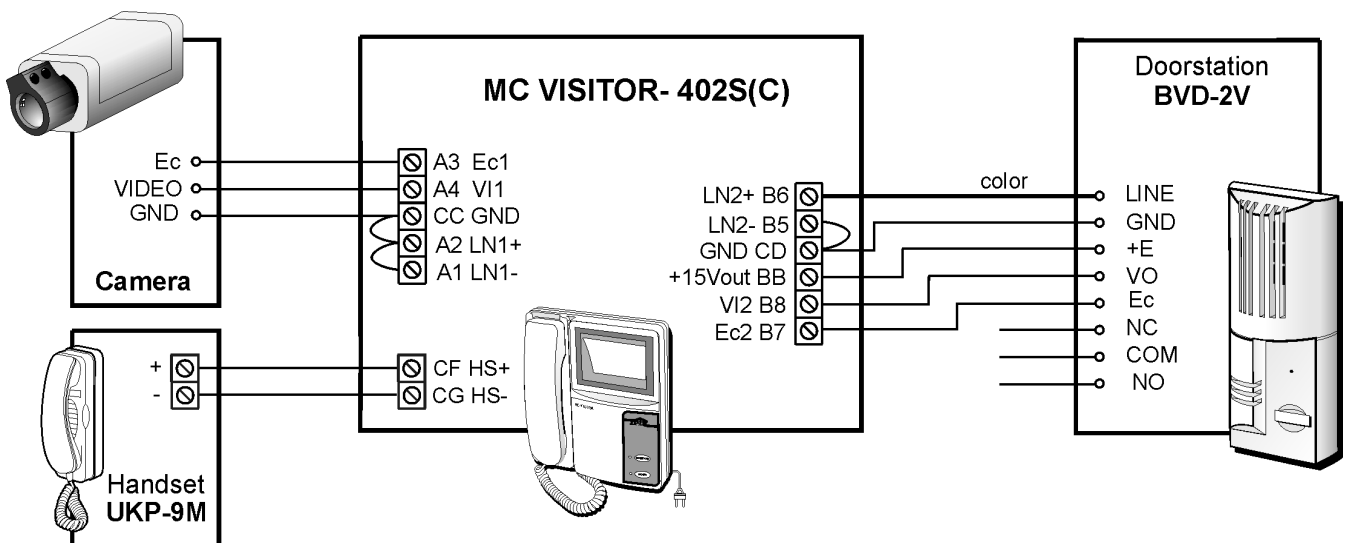
Before switching on the power please verify all electric connections

- ⚡ Switch on the power with switch 1. LED 10 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 12, if necessary.
- 📞 Pick up the handset 2 and check duplex communication with the doorstation. Set brightness, contrast and color with adjusters 3, 4 and 5.
- 🔑 Press **DOOR** button 7. LED 6 glows, entrance door unlocks.
- 📞 Hang up the handset. Monitor screen shuts off, stand-by mode activates.
- ☐ Press **MONITOR** button 8 for a short while. LED 9 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.

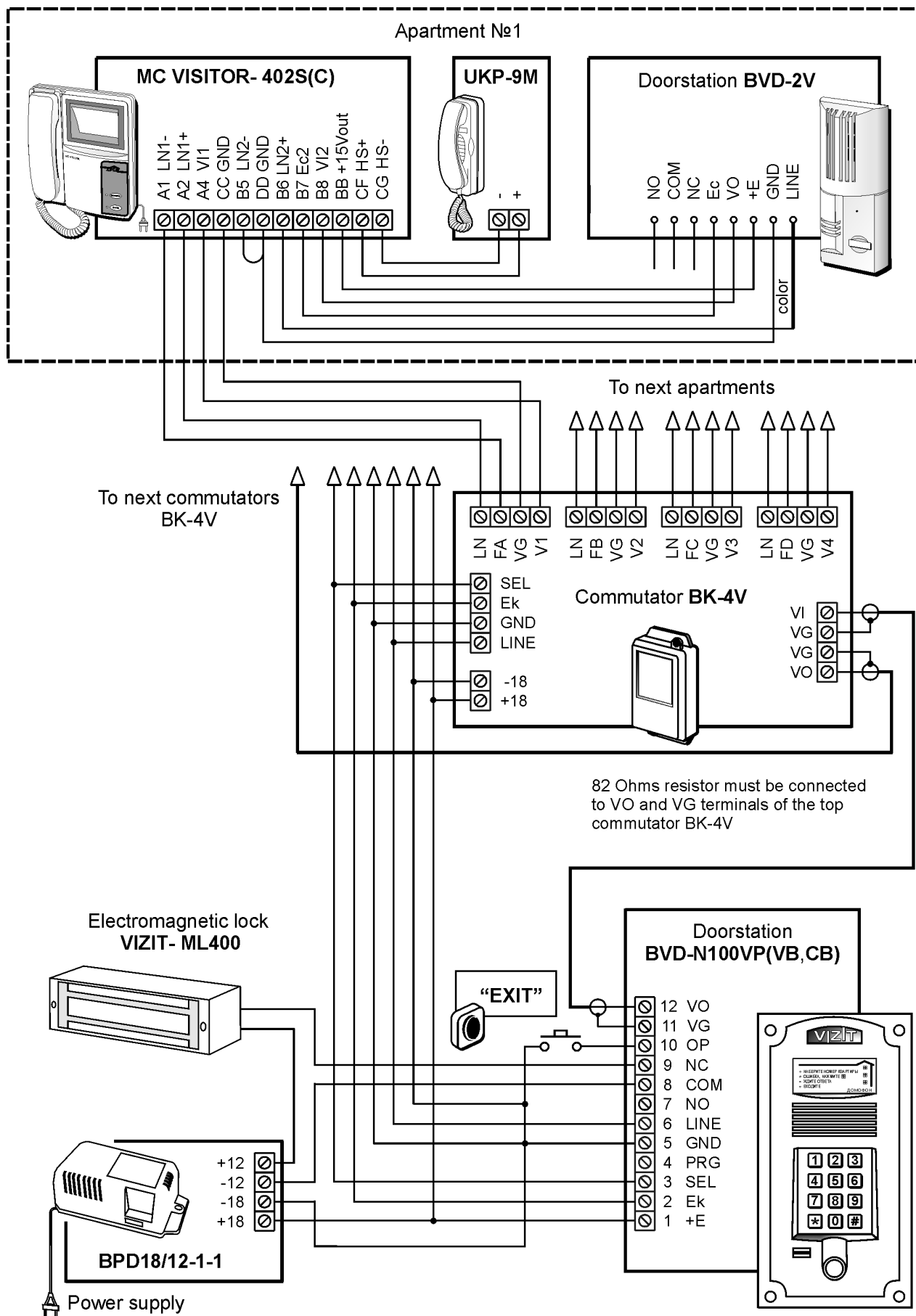
If the handset is not hung up longer than 65 ± 10 sec., then stand-by mode activates automatically.



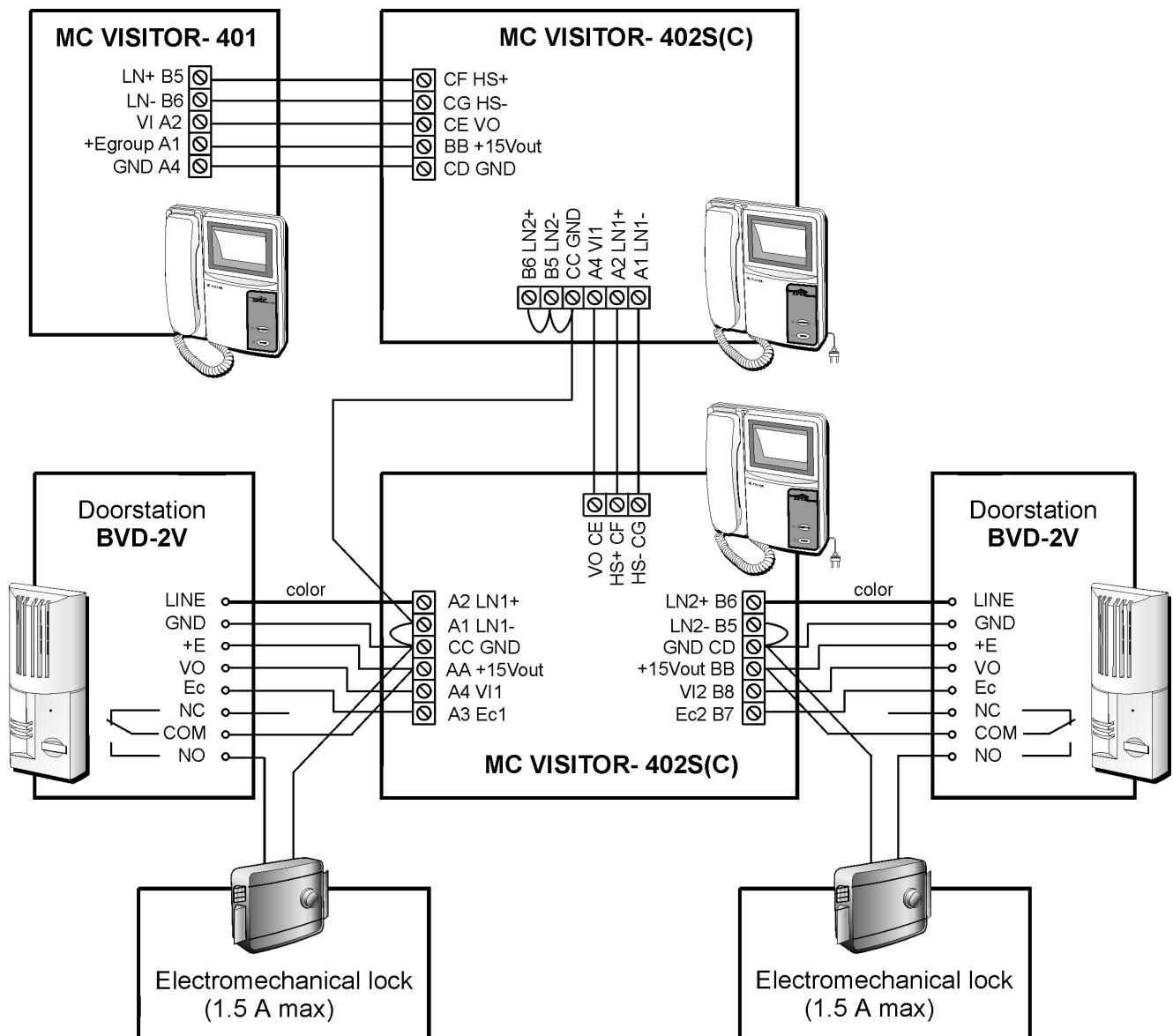
Picture 4 – Load equivalent connecting instead of parallel handset or monitor.



Picture 5 – Connection diagram for **MC VISITOR-402S(C)** 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 2 **MC VISITOR-402S(C)** with 2 doorstations **BVD – 2V**, **MC VISITOR – 401** and 2 electromechanical locks.