

EQUIPMENT FOR INDIVIDUAL VIDEODOORPHONES



MC VISITOR-111



100-SERIES MONITORS FOR INDIVIDUAL VIDEODOORPHONES

B&W monitor

Features:



- Call to subscriber at pressing  button on doorstaton
- Duplex intercom between visitor and subscriber
- Videomonitoring of an entrance / apartment door zone ( **MONITOR** button)
- Entrance door unlocking at pressing **DOOR** button
- LED indication of operating modes
- Ringer volume, brightness and contrast adjustment

MC VISITOR-112 MC VISITOR-112C



2-video inputs B&W monitor

2-video inputs color monitor





- Call to subscriber at pressing  button on doorstaton
- Duplex intercom between visitor and subscriber
- Videomonitoring of an entrance / apartment door zone ( **MONITOR** button)
- Switching of video signals of connected cameras
- Entrance door unlocking at pressing **DOOR** button
- LED indication of operating modes
- Ringer volume, brightness, contrast and color (MC VISITOR-112C) adjustment

MC VISITOR-112M MC VISITOR-112CM



2-video inputs B&W monitor with videomemory

2-video inputs Color monitor with videomemory

- Call to subscriber at pressing  button on doorstaton
- Duplex intercom between visitor and subscriber
- Videomonitoring of an entrance / apartment door zone ( **MONITOR** button)
- Switching of video signals of connected cameras
- Entrance door unlocking at pressing **DOOR** button
- LED indication of operating modes
- Ringer volume, brightness, contrast and color (MC VISITOR-112CM) adjustment
- Video signal output
- 32 B&W-images with date and time 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

MODEL	MC VISITOR-111	MC VISITOR-112(M)	MC VISITOR-112C(CM)
Videosystem	CCIR, Monochrome		CCIR, PAL
Audio / video inputs	One / one	One / two	
Operation voltage	~ 110 ÷ 240; 50-60 Hz		
Power consumption	15 VA max		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		

OPERATING INSTRUCTION

MC VISITOR-111 videomonitor is intended for use as subscriber's videointercom device in individual videodoorphone of **VIZIT-1000** -series.

MC VISITOR-111 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
- Entrance door unlocking at pressing **DOOR** button on the monitor
- LED indication of operating modes
- Ring volume, brightness and contrast adjustment

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-111 (-111C) , 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**.

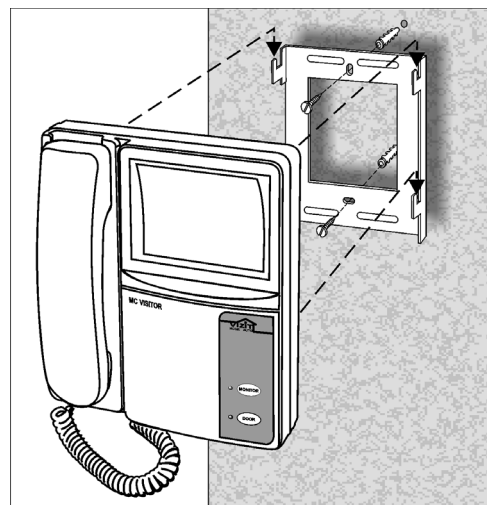
NOTE. Parts lists and specifications of doorstation and other devices, which may be incorporated into videodoorphone system, are given in their instructions.

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

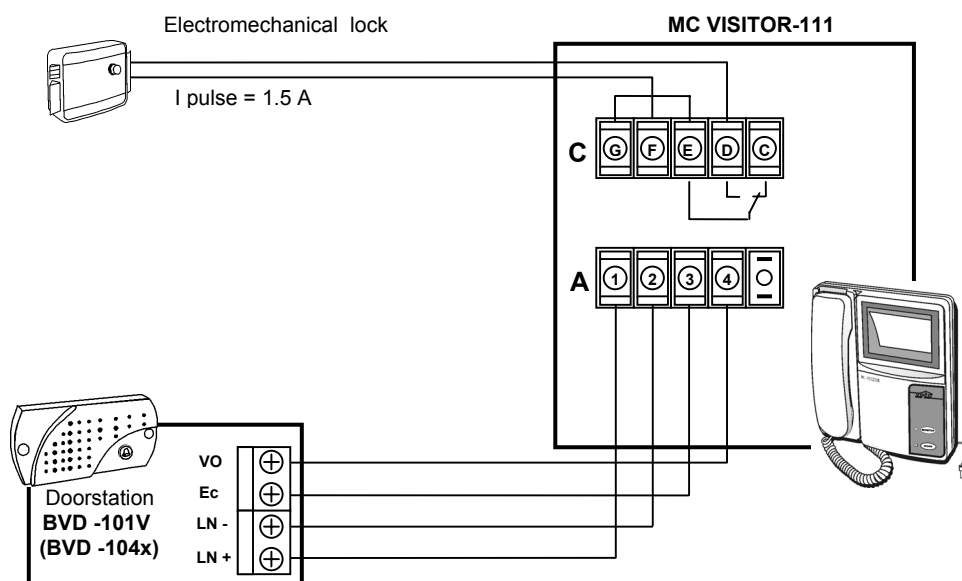
1. Mount the monitor on a wall by means of steel mounting bracket and screws from the montage kit (picture 1). Terminals layout is given on picture 2.
2. Connect all wires to corresponding terminals at monitor's rear panel according to picture 3.



Picture 1 - Mounting drawing.

	Terminal	Circuit	Application
C	CG	+15V out	Powering of additional equipment
	CF	GND	Grounding wire of additional equipment
	CE	COM	Relay switching contact
	CD	NO	Normally open relay contact
	CC	NC	Normally closed relay contact
B	A1	LN+	Monitor - doorstation communication line
	A2	LN -	Monitor - doorstation grounding wire
	A3	Ec	Powering of doorstation's camera
	A4	VO	Video input for camera
A			

Picture 2 - Terminals layout and designation.



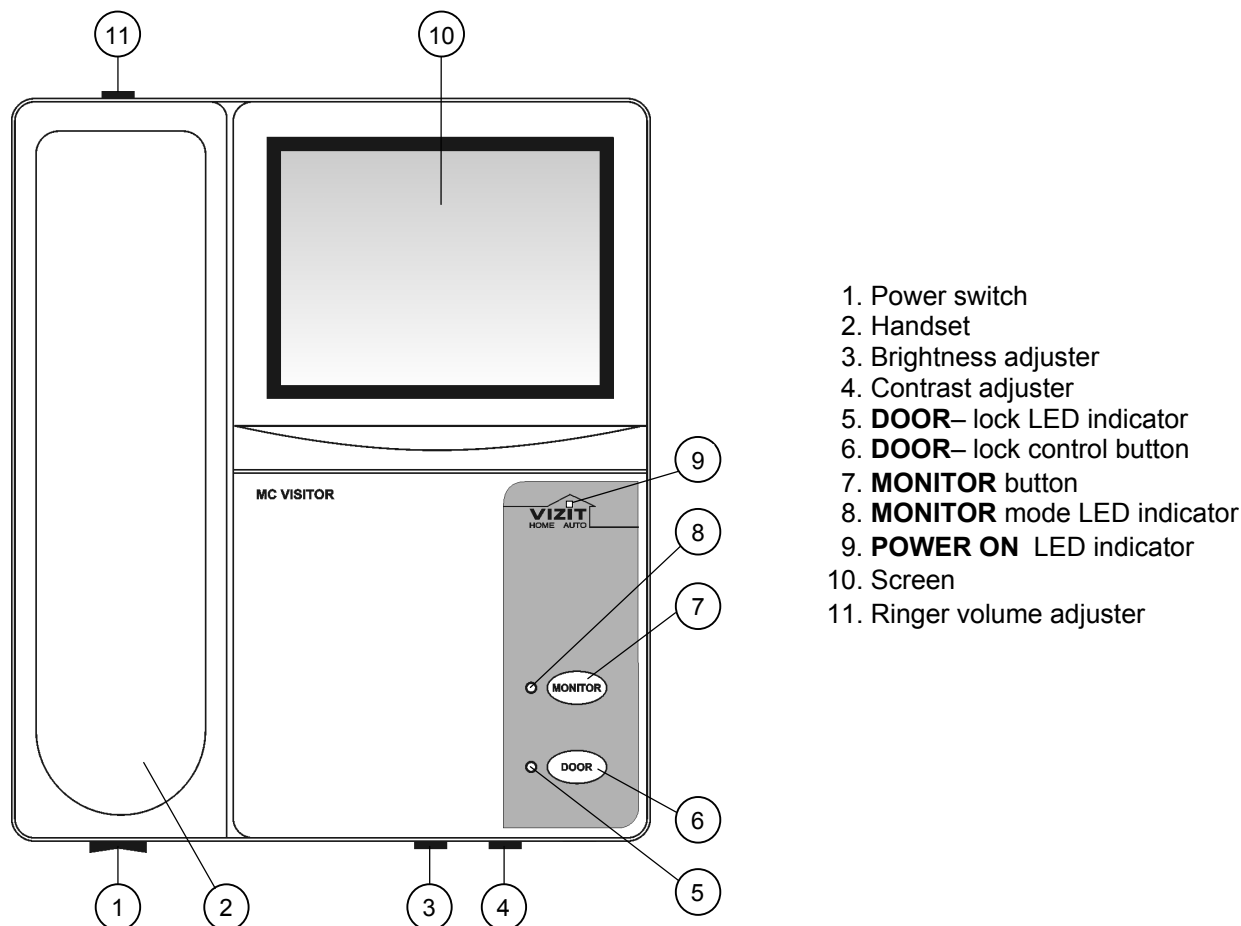
Picture 3 – Wiring diagram.

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 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.



Picture 4 - 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 **DOOR** 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 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.

OPERATING INSTRUCTION

MC VISITOR-112 (MC VISITOR-112C) videomonitor is intended for use as subscriber's videointercom device in individual videodoorphone of **VIZIT-1000** -series.


Monitor has 2-video inputs

Following versions are available:

MC VISITOR-112 – B&W image monitor

MC VISITOR-112C – Color image monitor

FEATURES

- Call to subscriber at pressing  button on doorstaton
- 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

Video-monitoring may be carried out by means of two cameras – doorstation's built-in camera and an additional one. Both of them should be either B&W or Color for best quality of image.

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-112 (-112C) , 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**.

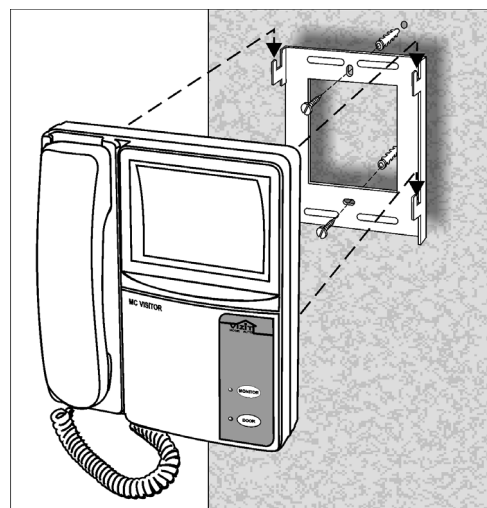
NOTE. Parts lists and specifications of doorstation and other devices, which may be incorporated into videodoorphone system, are given in their instructions.

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

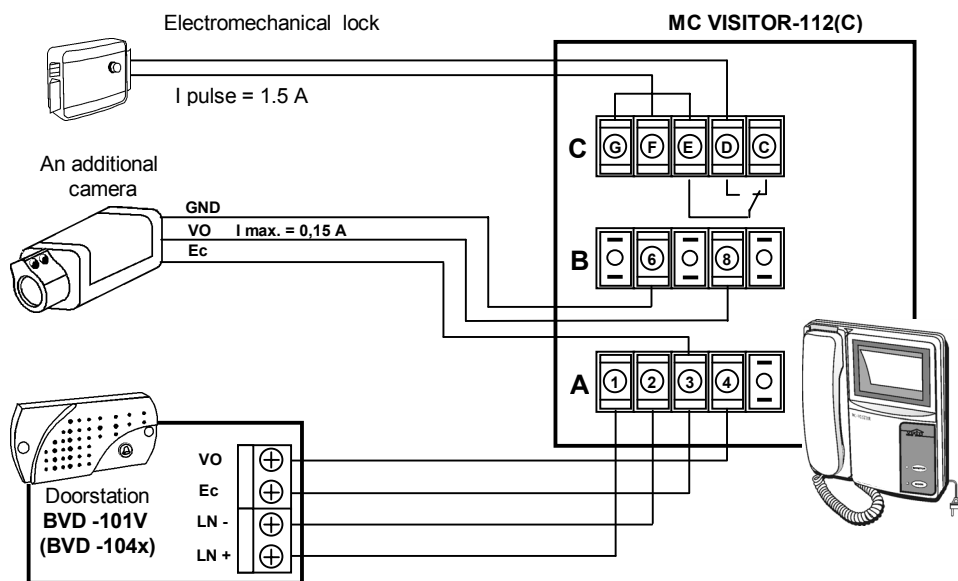
1. Mount the monitor on a wall by means of steel mounting bracket and screws from the montage kit (picture 1).
2. Terminals layout is given on picture 2.
3. Connect all wires to corresponding terminals at monitor's rear panel according to picture 3.



Picture 1 - Mounting drawing.

	Terminal	Circuit	Application
C	CG	+15V out	Power for additional equipment
	CF	GND	Grounding wire of additional equipment
	CE	COM	Relay switching contact
	CD	NO	Normally open relay contact
	CC	NC	Normally closed relay contact
B	B6	GND	Grounding wire for an additional camera
	B8	VI 2	Video input for an additional camera
A	A1	LN+	Monitor - doorstation communication line
	A2	LN -	Monitor - doorstation grounding wire
	A3	Ec 1	Power for cameras
	A4	VI 1	Video input for doorstation's camera

Picture 2 - Terminals layout and designation.



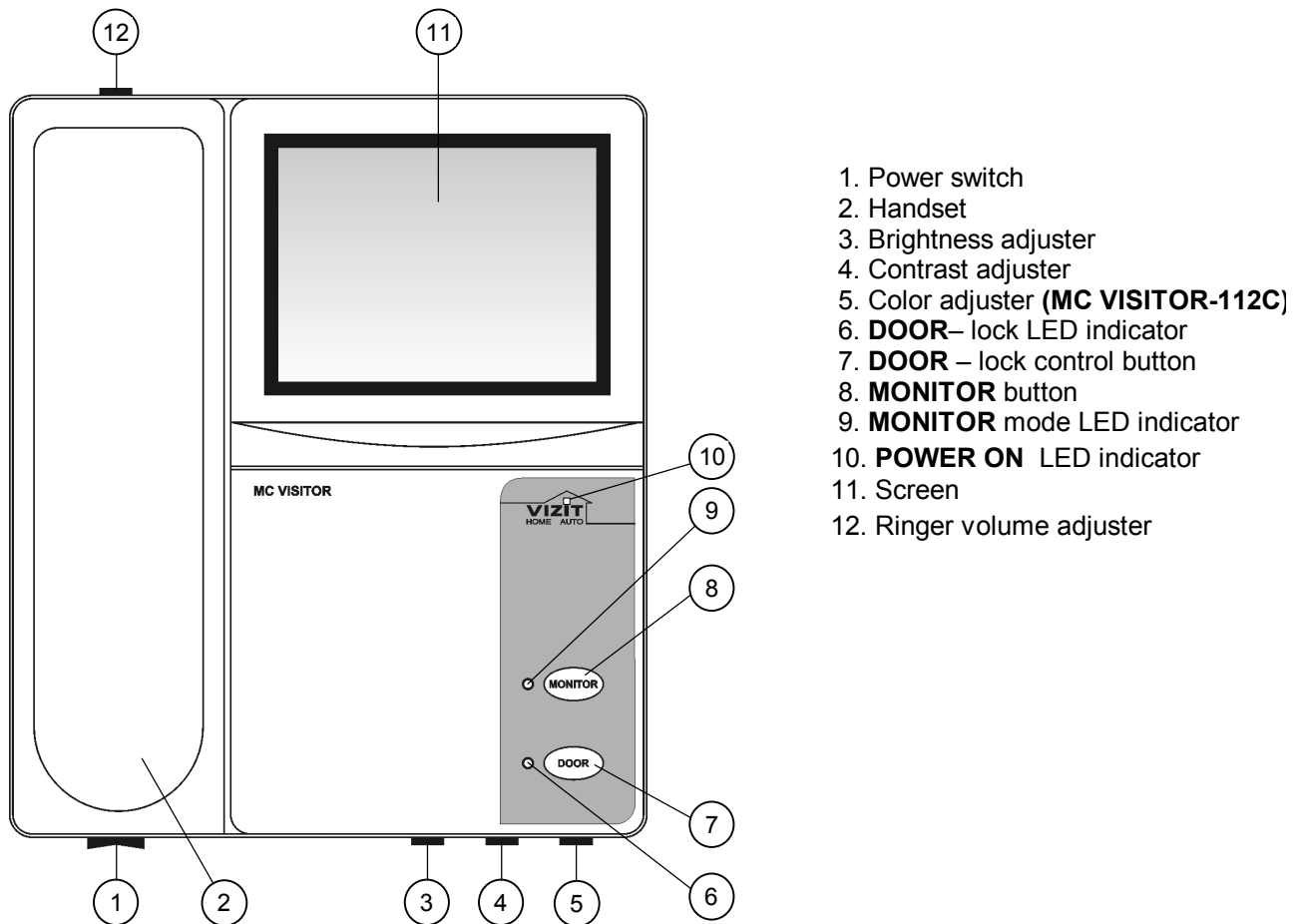
Picture 3 – Wiring diagram.

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 ($I = 1.5 \text{ A max}$)	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 10Ω .
Impedance of an electromagnetic lock should not be less than 20Ω .

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



Picture 4 - 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.

OPERATING INSTRUCTION

MC VISITOR-112M (MC VISITOR-112CM) videomonitor is intended for use as subscriber's videointercom device in individual videodoorphone of **VIZIT-1000** -series.


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

Following versions are available:

MC VISITOR-112M – B&W image monitor

MC VISITOR-112CM – Color image monitor.

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-112CM**) adjustment
- 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-112M (-112CM) , 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.

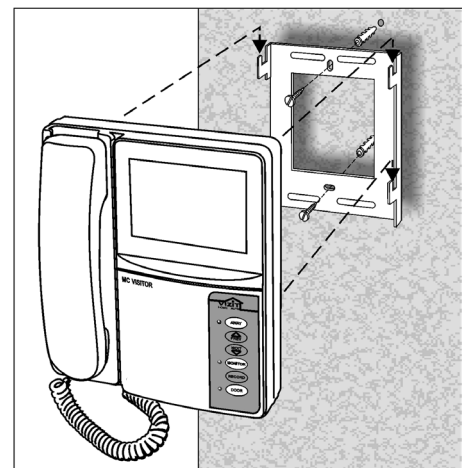
SAFETY INSTRUCTIONS

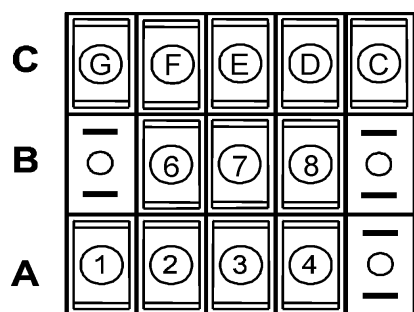
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INSTALLATION ORDER

1. Mount the monitor on a wall by means of steel mounting bracket and screws from the montage kit (picture 1).
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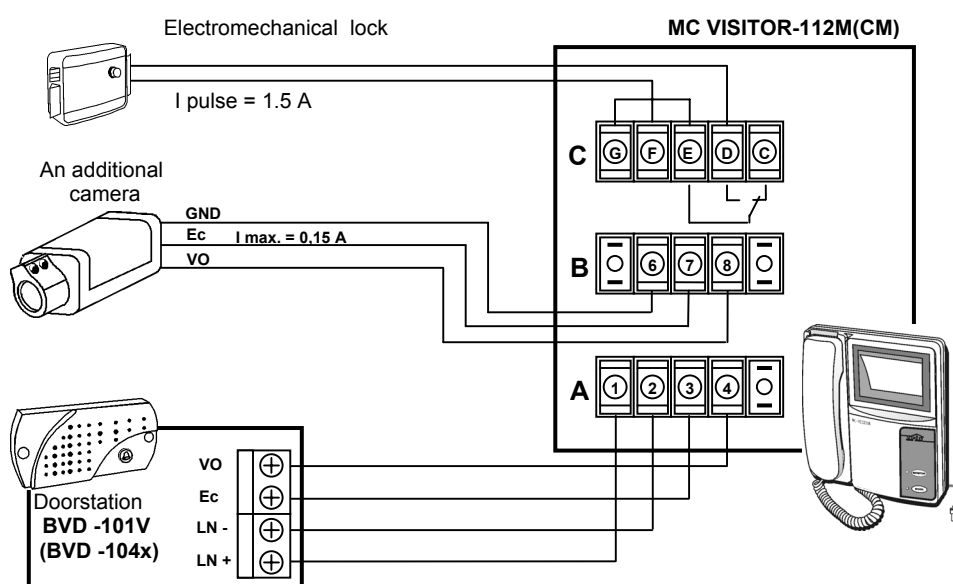
Picture 1 - Mounting drawing.





Terminal	Circuit	Application
CG	+15V out	Powering of additional equipment
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CE	COM	Relay switching contact
CD	NO	Normally open relay contact
CC	NC	Normally closed relay contact
B6	GND	Grounding wire of an additional camera
B7	Ec 2	Powering of an additional camera
B8	VI 2	Video input for an additional camera
A1	LN+	Monitor - doorstation communication line
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A4	VI 1	Video input for doorstation's camera

Picture 2 - Terminals layout and designation.



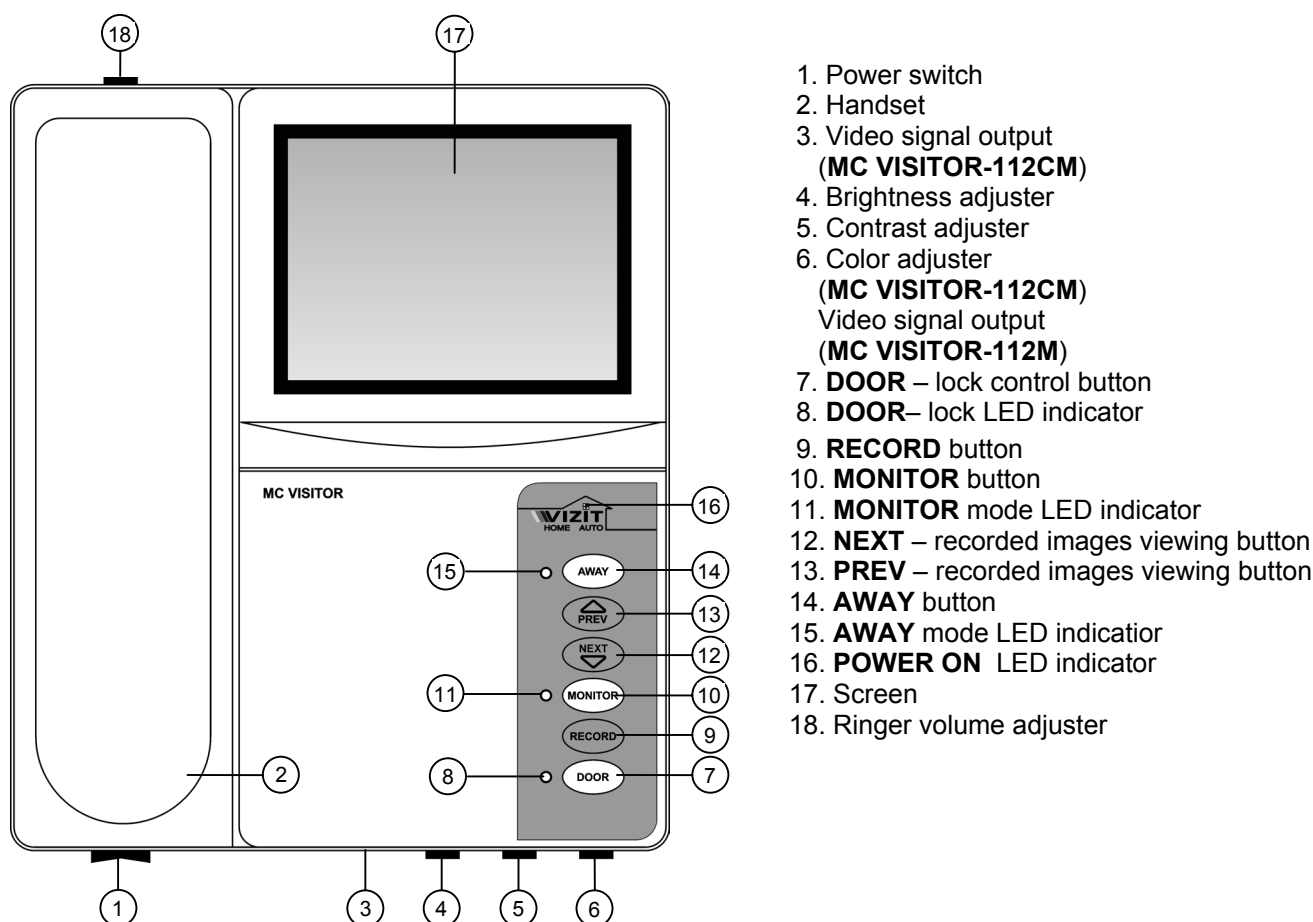
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CIRCUIT	LENGHT, m			
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Cross-section, mm^2 , min				

ATTENTION! Impedance of an electromechanical lock should not be less than 10 Ω .
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Installation order of doorstation and other devices, which may be incorporated into videodoorphone system, is given in their instructions.



Picture 4 - 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**.