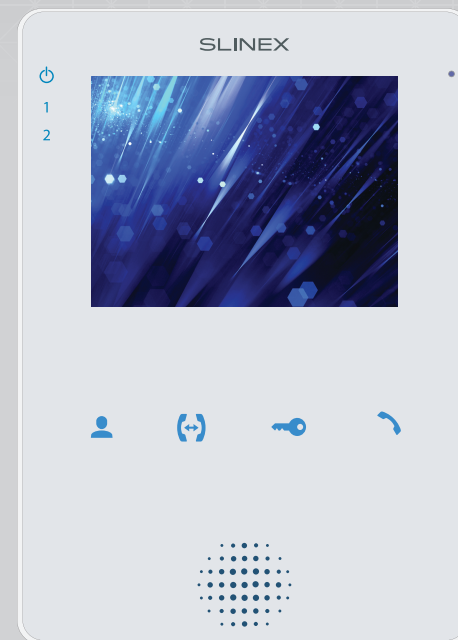# MS-04

4" video door phone

User manual

Thank you for the
choice of our equipment

SLINEX

{Design. Uniqueness. Innovation}

Attention!

As a result of continuous upgrades and functionality improvements, technical characteristics of the device can be changed without any preliminary declaration.

This manual can contain some inaccuracy or misprint. The owner reserves the right to make corrections to the information described in the user manual and device package.

The last revision of this manual is available on www.slinex.com

Safety instructions

Read and keep that manual.

The device installation process should be carried out by the qulified specialists.

Use the device from the −10 ˚C to +55 ˚C, always keep it within that temperature range.

Installation surface should be free from vibration and impact influence.

Keep this device far from open sources of heat, such as radiators, heaters, and ovens.

The device can be installed near other electronic equipment in case if the temperature of the environment does not exceed previously mentioned range.

The device should be protected from the direct influence of the natural phenomena, such as direct sunlight, rain or snow.

Don't use aggressive or abradant detergent for the device surface cleaning.

Use soft wet cloth or tissue to remove strong dirt.

Don't overpower outlets. It can cause fire or electric shock.

Nature protection

Don't throw away the device with other industrial or nutritive trash if you see that symbol. Some regions have separation and recycling systems for the electronic equipment. Connect with local authorities to receive information about recycling of electronic equipment for your region.

Rights and limitation of liability

All rights reserved. Any part of that document can not be published in any form, translated into other languages or reproduced in any way including electronic or mechanical.

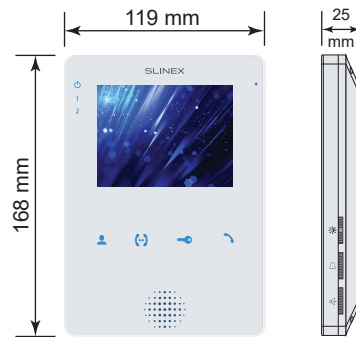Document recording and copying is strictly denied without owner permission.
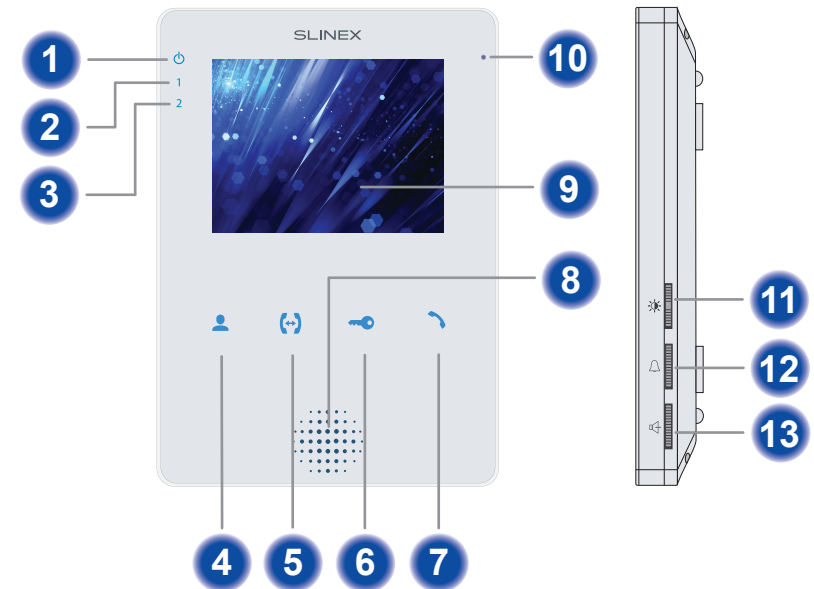
Table of contents

1. Package

MS-04 door monitor – 1 pc.
Wall mounting bracket – 1 pc.
Connection wires – 5 pcs.
Mounting screws and nuts – 1 pkg.
User manual – 1 pc.

2. Specification

119 mm
25 mm
168 mm

Screen	4", color TFT (4:3)
Resolution	320×240 pixels
Video system	PAL/NTSC
Audio type	Half duplex
Call time	120 seconds
Internal memory	No
Memory extension slot	No
Standby mode power consumption	1 W
Working mode power consumption	6 W
Power supply	Built-in power supply, ~100–240 V
Mounting type	Surface mount
Size	119×168×25 mm
Working temperature	−10...+55 ˚C

3. Description

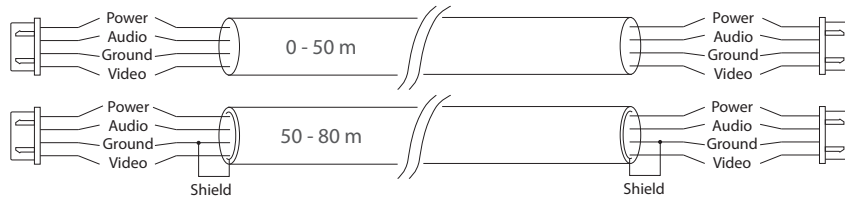| 1	Power LED. Active when the power is on.
2	First door panel LED. Active when the first door panel is on.
3	Second door panel LED. Active when the second door panel is on.
4	«Monitor» button – door panel image monitoring.
5	«Call redirection» button – incoming call redirection to other monitor / camera image monitoring (in stadby mode)
6	«Unlock» button – door unlocking
7	«Answer/Hang Up» button – start/stop conversation with the visitor / start intercom call with other monitor in the system (in stadby mode)
8	Speaker
9	Display
10	Microphone
11	Image settings joystick: • push the joystick to enter brightness/contrst/color tuning menu; • move joystick up or down to change current parameter setting; • push the joystick again to go to the next parameter or exit image settings.
12	Incoming call ringing volume potentiometer.
13	Talking volume potentiometer.

4. Installation

4.1 Cable requirements

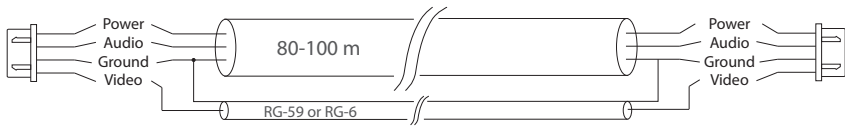Disconnect all power cables before device installation.

This device can be connected with such cable types depends on the distance between door monitor and door panel:

a) Use 4-wire cable with such parameters:
- distance up to 25 meters use a cable with 0,22 mm² square of one wire;
- distance 25 to 50 meters use a cable with 0,41 mm² square of one wire;
- distance 50 to 100 meters use a cable with 0,75 mm² square of one wire.

| Power Audio Ground Video | 0 - 50 m | Power Audio Ground Video |

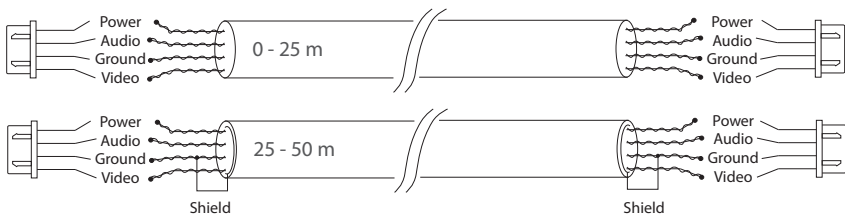| Power Audio Ground Video | 50 - 80 m | Power Audio Ground Video |
Shield — Shield

b) If the distance between door monitor and door panel is between 80 and 100 meters then use a 3-wire cable with 0,75 mm² square of one wire and RG-59 or RG-6 coaxial cable for the video signal.

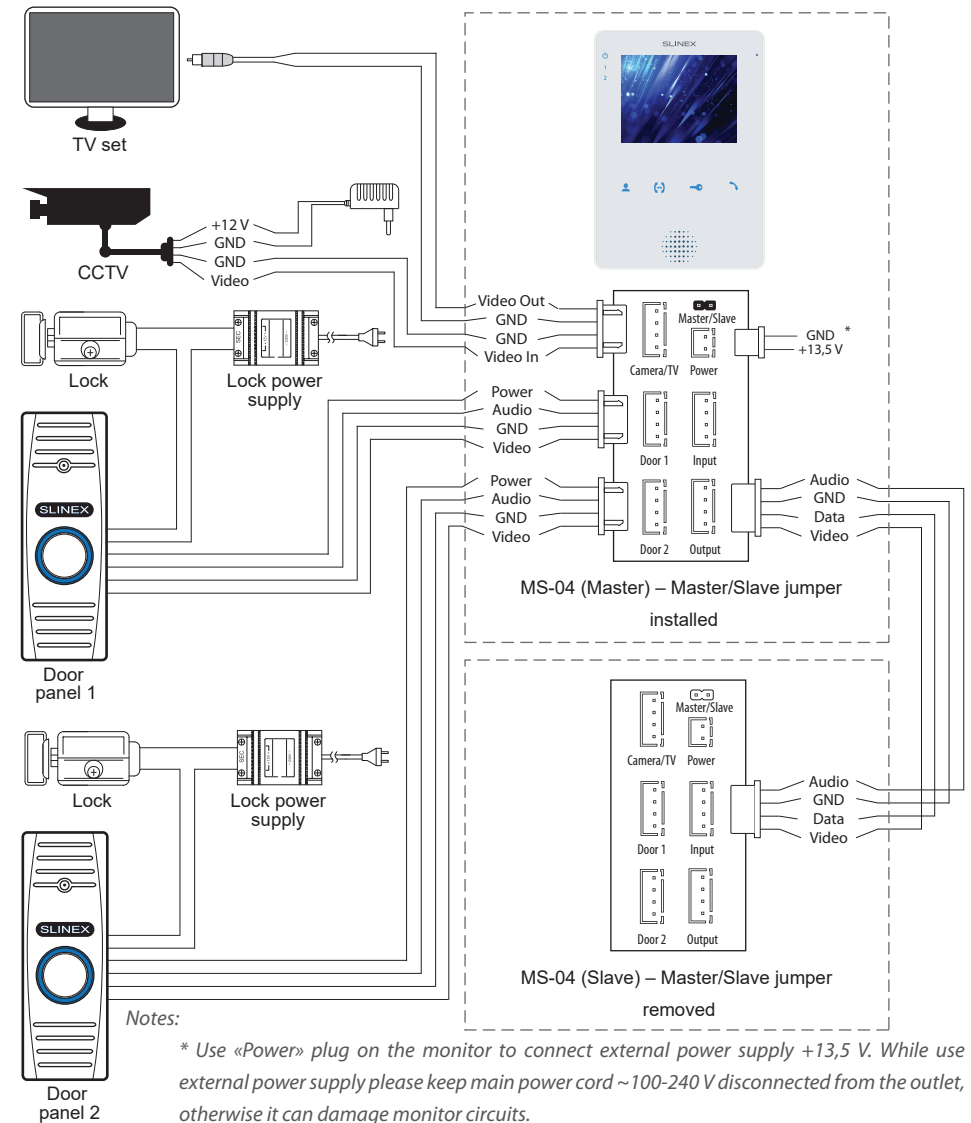| Power Audio Ground Video | 80-100 m | Power Audio Ground Video |
RG-59 or RG-6

c) Shielded or non-shielded twisted pair (not recommended):
- distance up to 25 meters non-shielded twisted pair can be used;
- distance 25 to 50 meters shielded twisted pair should be used.

| Power Audio Ground Video | 0 - 25 m | Power Audio Ground Video |

| Power Audio Ground Video | 25 - 50 m | Power Audio Ground Video |
Shield — Shield

4.2 Schematic diagrams

MS-04 door panels, cameras, locks and TV connection.

TV set

CCTV
+12 V
GND
GND
Video

Lock   Lock power supply

Door panel 1

Lock   Lock power supply

Door panel 2

Video Out
GND
GND
Video In

Power
Audio
GND
Video

Power
Audio
GND
Video

Master/Slave

Camera/TV   Power

Door 1   Input

Door 2   Output

GND *
+13,5 V

Audio
GND
Data
Video

MS-04 (Master) – Master/Slave jumper installed

Master/Slave

Camera/TV   Power

Door 1   Input

Door 2   Output

Audio
GND
Data
Video

MS-04 (Slave) – Master/Slave jumper removed
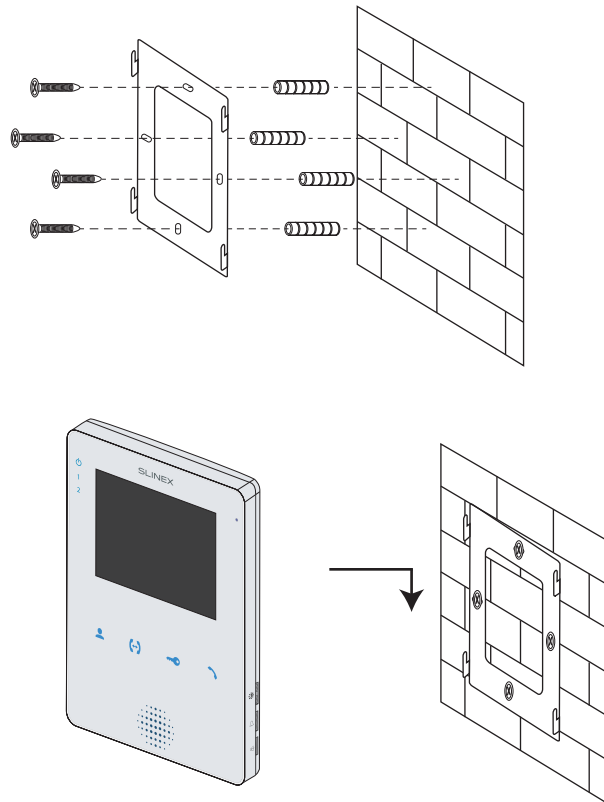
Notes:

* Use «Power» plug on the monitor to connect external power supply +13,5 V. While use external power supply please keep main power cord ~100-240 V disconnected from the outlet, otherwise it can damage monitor circuits.

** Door panels, cameras, power supplys, locks and TV set, described on the diagram, are optional devices and are not included into monitor kit.
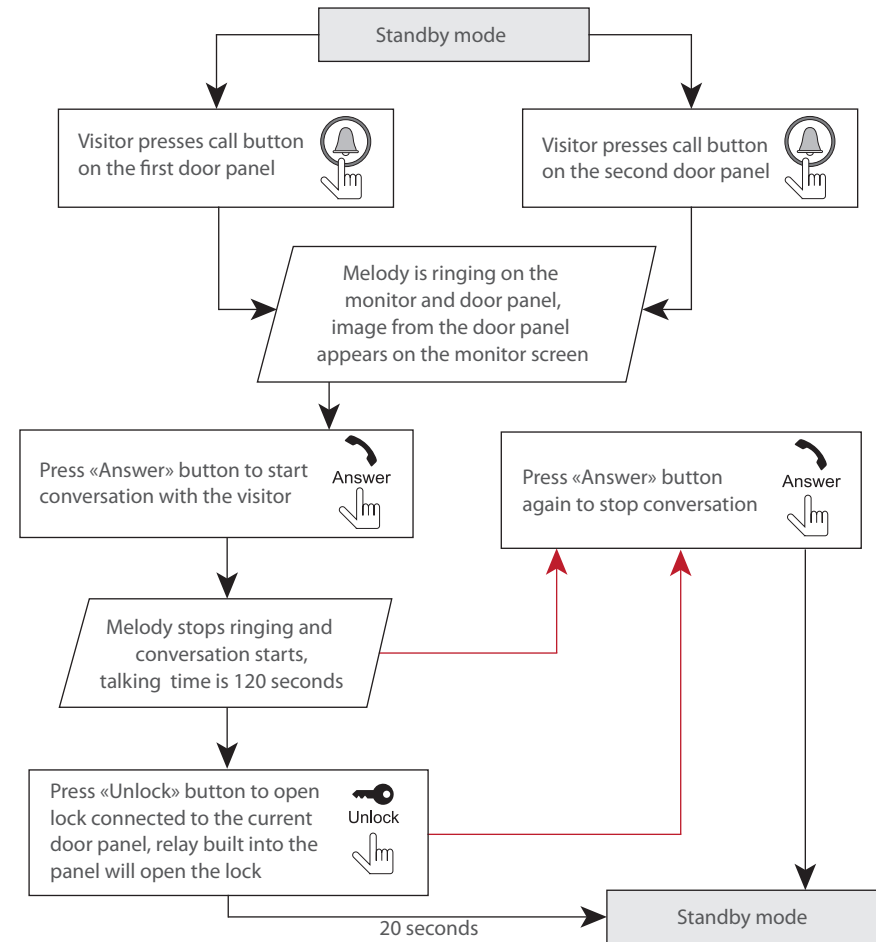
4.3 Unit mount

1) Take the surface mount bracket from the kit and situate it 150-160 cm from the floor line.

2) Mark and drill four halls in the wall.

3) Take four nuts from the kit and hammer them into the drilled halls.

4) Fix surface mount bracket on the wall by four screws from the kit.

5) Connect all communication wires and fix the monitor on the surface mount bracket.

5. Operation

5.1 Incoming call

Standby mode

Visitor presses call button on the first door panel

Visitor presses call button on the second door panel

Melody is ringing on the monitor and door panel, image from the door panel appears on the monitor screen

Press «Answer» button to start conversation with the visitor — Answer

Press «Answer» button again to stop conversation — Answer

Melody stops ringing and conversation starts, talking time is 120 seconds

Press «Unlock» button to open lock connected to the current door panel, relay built into the panel will open the lock — Unlock

20 seconds → Standby mode

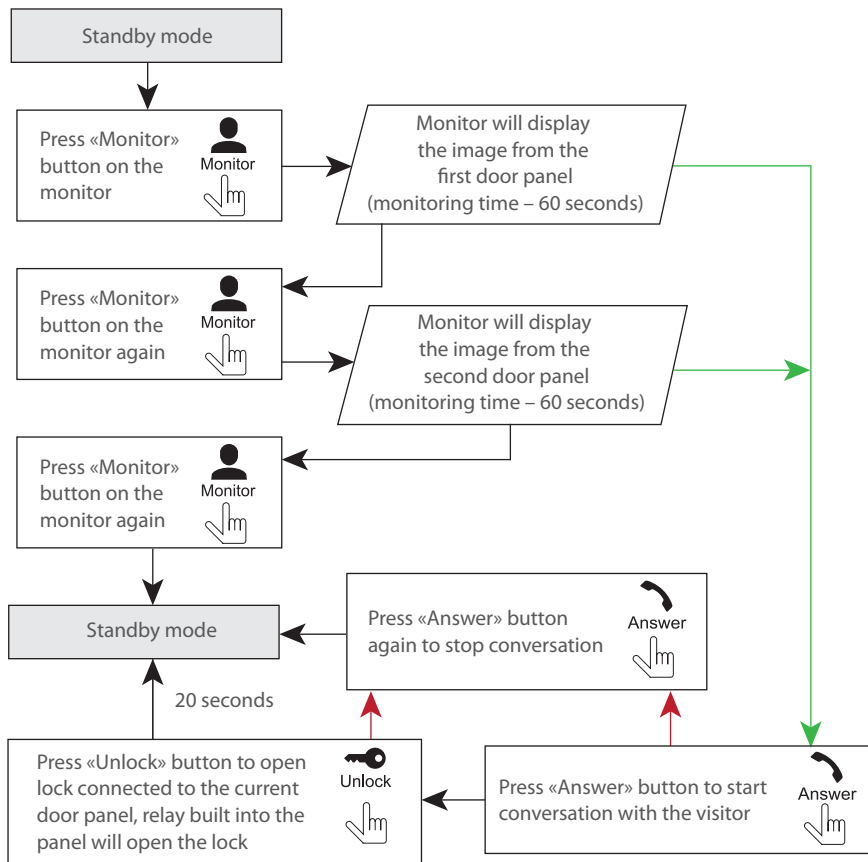*Notes:*

1) Monitor will be automatically switched into standby mode if the user doesn't answer incoming call during 60 seconds;

2) Image and sound from the door panel will be active during 20 seconds after the moment user presses Unlock button. It let the user know if the visitor passed through the door.
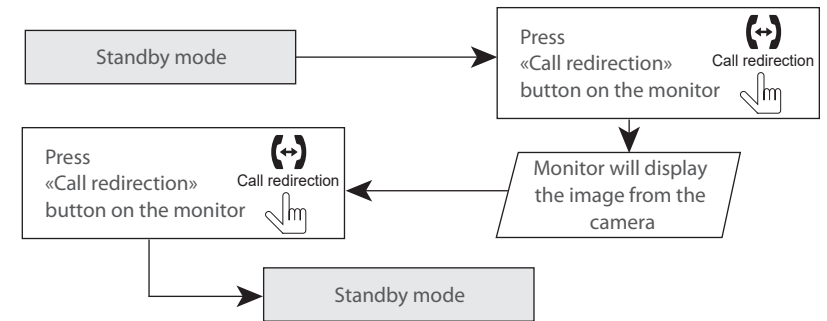
5.2 Door panel image monitoring

Standby mode

↓

Press «Monitor» button on the monitor — Monitor — Monitor will display the image from the first door panel (monitoring time – 60 seconds)

Press «Monitor» button on the monitor again — Monitor — Monitor will display the image from the second door panel (monitoring time – 60 seconds)

Press «Monitor» button on the monitor again — Monitor

↓

Standby mode ← Press «Answer» button again to stop conversation — Answer

↑ 20 seconds

Press «Unlock» button to open lock connected to the current door panel, relay built into the panel will open the lock — Unlock ← Press «Answer» button to start conversation with the visitor — Answer
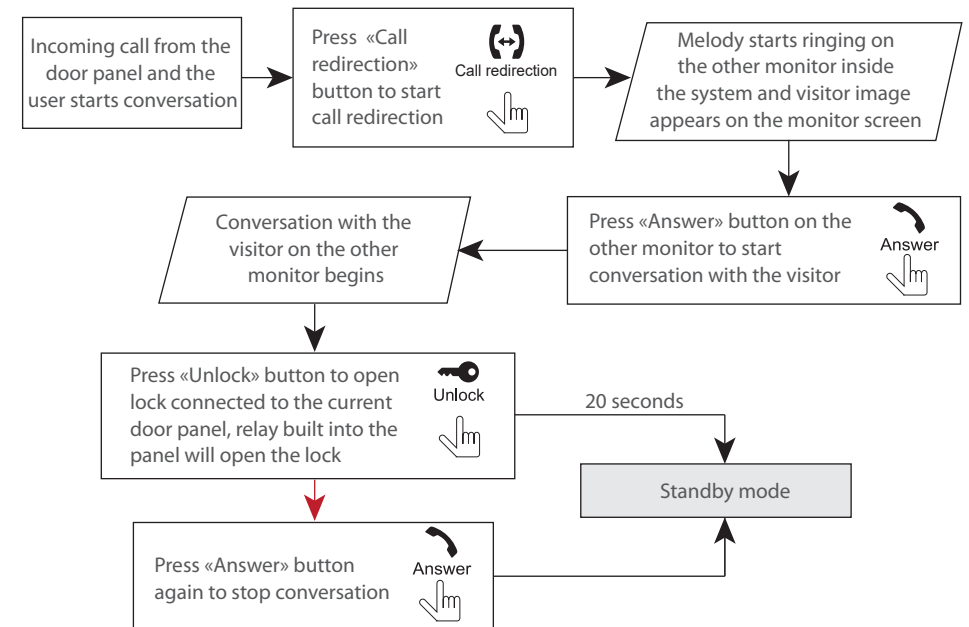
Notes:

1) If several monitors connected into one system, the user can view the image from door panels and cameras on any monitor inside this system. The image will be transferred from the «Master» monitor door panels and cameras to the «Slave» monitors.

2) If somebody presses call button on the door panel while monitoring is active then the image from this door panel appears on the monitor screen and call melody starts. Press «Answer» 📞 button to start conversation.

5.3 Camera image monitoring

Standby mode → Press «Call redirection» button on the monitor — Call redirection

↓

Press «Call redirection» button on the monitor — Call redirection ← Monitor will display the image from the camera

↓

Standby mode

5.4 Incoming call redirection

Two monitors connected into one system are used.

Incoming call from the door panel and the user starts conversation → Press «Call redirection» button to start call redirection — Call redirection → Melody starts ringing on the other monitor inside the system and visitor image appears on the monitor screen

↓

Conversation with the visitor on the other monitor begins ← Press «Answer» button on the other monitor to start conversation with the visitor — Answer

↓

Press «Unlock» button to open lock connected to the current door panel, relay built into the panel will open the lock — Unlock — 20 seconds → Standby mode

↓

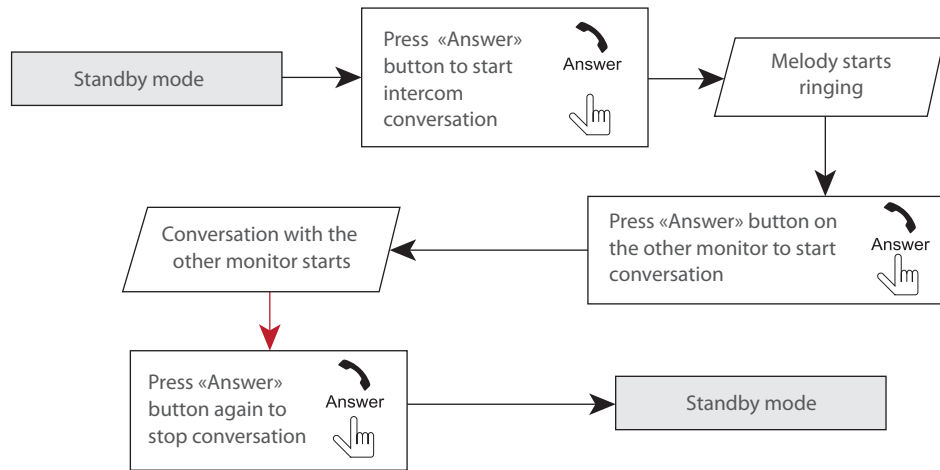Press «Answer» button again to stop conversation — Answer

Note:

If incoming call was successfully redirected to the other monitor then current monitor will enter standby mode.

5.5 Intercom

Two monitors connected into one system are used.

Note:

If somebody presses call button on the door panel while intercom is active then the image from this door panel appears on the monitor screen and call melody starts. Press «Answer» button to start conversation with the visitor.

6. Limited warranty

Manufacturer guarantees product normal functioning during the warranty period if the user keeps all safety instructions described in that manual.

Warranty period is 12 months from the moment of the product purchasing (warranty period could be extended up to 24 months or more, depending on the local regulations).

Warranty period allows user to make guarantee repair in cases when normal functioning of the product was violated by the fault of manufacturer and the user haven't offend transporting, installation and working conditions.

This limited warranty does not cover any damage to the product that results from improper installation, accident, abuse, misuse, natural disaster, insufficient or excessive electrical supply, abnormal mechanical or environmental conditions, or any unauthorized disassembly, repair or modification.

Warranty void in such cases:

- the product was damaged by the fault of the customer;
- the product wasn't properly installed according reccomendations from the manual;
- the sticker on the backside of the product was broken;
- the product was not used for its intended function.

This limited warranty covers only repair, replacement, refund or credit for defective products, as provided above. Manufacturer is not liable for, and does not cover under warranty, any damages or losses of any kind whatsoever resulting from loss of, damage to, or corruption of, content or data or any costs associated with determining the source of system problems or removing, servicing or installing products. This warranty excludes third party software, connected equipment or stored data. Manufacturer is therefore not liable for any losses or damage attributable to third party software, connected equipment or stored data.

In the event a product has been discontinued, manufacturer shall either repair the product, offer to replace it with a comparable product or provide a refund at the lesser of the purchase price or the product's current value.

Repaired or replacement products will continue to be covered by this limited warranty for the remainder of the original warranty term.