



Installation and activation

MVC-6650

1. Monitor use

MVC-6650 is a loud speaking monitor operating in DUPLEX system – it is not required to press any pushbuttons to carry on the conversation.

Monitor MVC-6650 is dedicated to digital entry phone systems produced by Laskomex (CD-2501, CD-2502 and CD-3100). It also co-operates with floor panels BVC-6501 which enables audio and video connections.

A colour camera can be used alternatively with floor panel BVC-6501; its power demand does not exceed 250mA at supply voltage 12V DC (CAM2).

Additionally monitor enables monitoring (without audio connection) from additional cameras CAM3 and CAM4.

Monitor cannot control gate drive.

2. Installation of monitor

Monitor should be installed inside the building at a height ensuring comfortable use by all users. In a place where the monitor will be installed a metal frame should be mounted by means of strut pegs and screws (elements delivered with standard equipment).

Connecting wires should be routed through a cutout in the mounting frame center. Then wires with pins should be plugged to appropriate receptacles in the monitor (pins delivered with monitor with standard equipment).

Finally, the monitor should be hung on the frame and pulled downwards to protect it against falling down.

Monitor should be connected with power supply cut off!

Prior to monitor hanging the number should be programmed – description below in item 3.

Monitor can be supplied directly from individual power supply adaptor **13,5V DC/1A** (dwg.6) or from video signal distributor CVR-2 to which central feeder is connected **15V DC/4A** (dwg.5).

Central feeder enables supplying distributor CVR-2 and 4 monitors connected to its outputs.

Additional cameras CAM3 and CAM4 require separate power supply 12V DC stabil./0,8A (dwg 6). This power supply adaptor is not included in standard delivery of monitor.

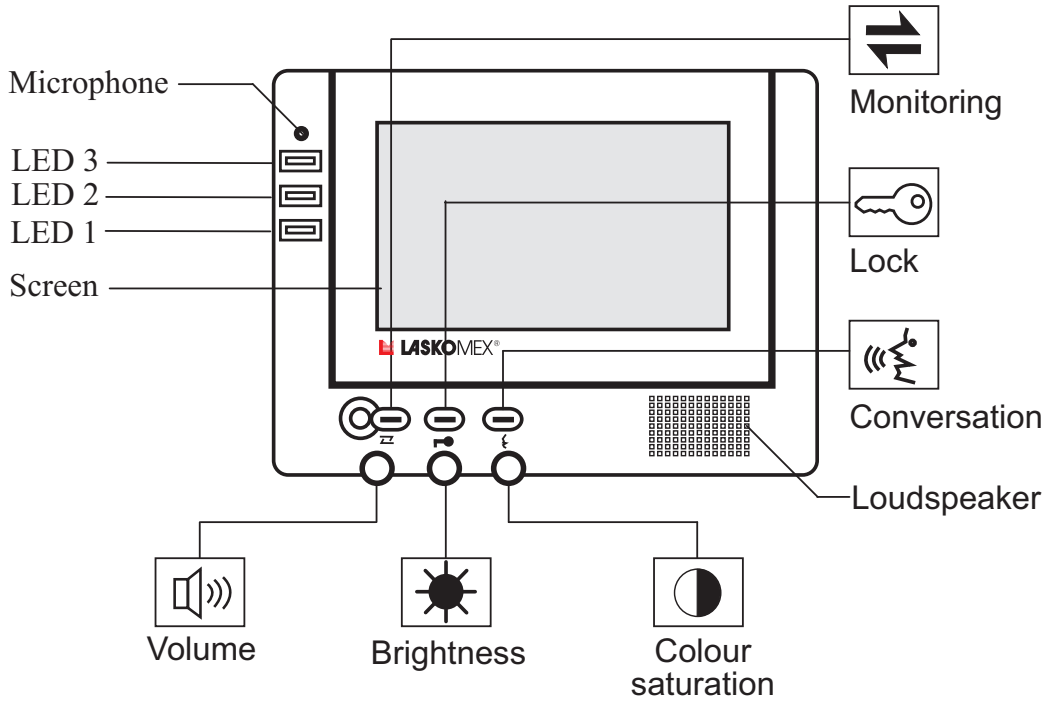
Lengths and diameters of wires between distributor CVR-2 and monitor supplied centrally are shown in table 1. At a distance longer than 30m individual monitor power supply adaptors should be used. Then the requirements applying to audio and video line wires given in service instruction for CD system should be met.

It is recommended to use spiral wires UTP cat.5.

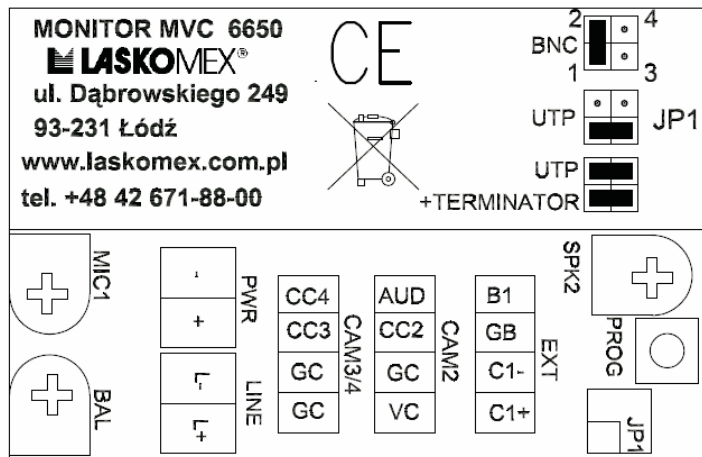
Clamps	Distance	
	<15m	<30m
L+,L-,C+,C-	0,5mm	
GS,VS	0,5mm	2x0,5mm

Table 1 Minimal wires diameters depending on distance between CVR-2 and monitor supplied centrally

Diagram showing connection of the monitor to CD system and floor panel BVC-6501 (or alternatively colour camera) and additional cameras CAM3 and CAM4 is presented in dwg. 5 and 6, location of function pushbuttons - in fig. 1 and arrangement of receptacles and monitor control elements - in dwg.2.

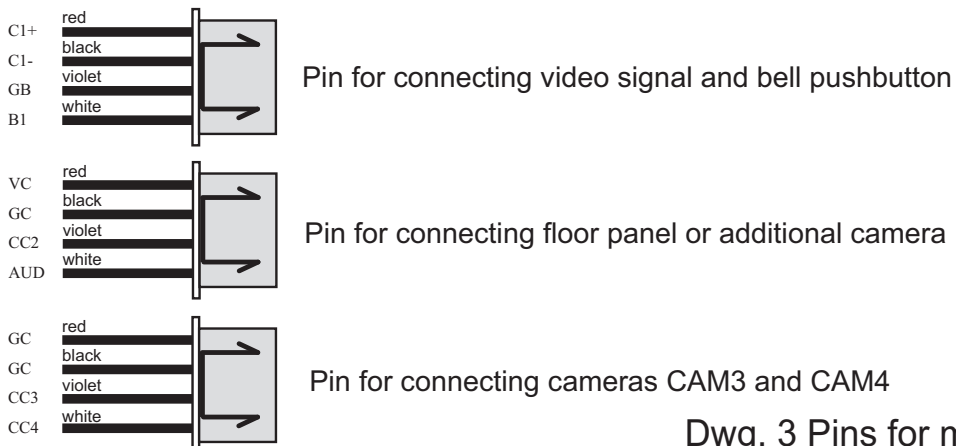


Dwg. 1 Monitor view MVC-6650



Dwg. 2 Information sticker

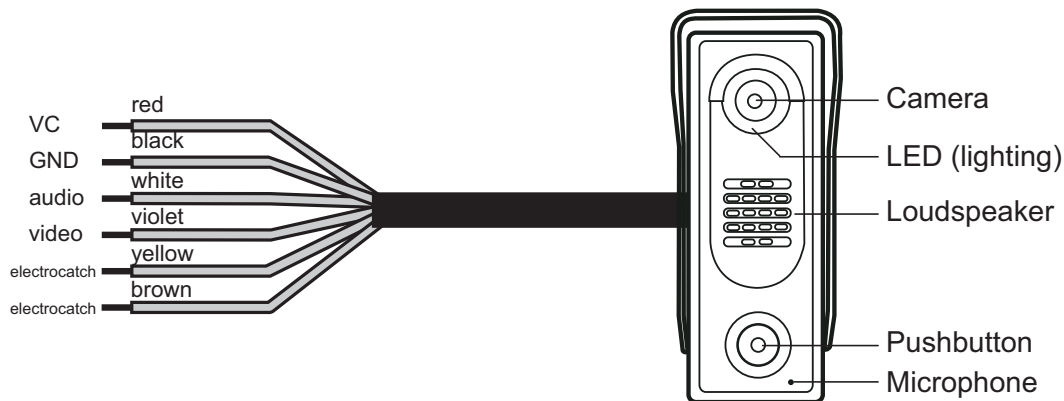
The set includes four pins for signal connection from CD system (2 pins), floor panel or additional camera, cameras CAM3 and CAM4 and power supply. Plugs were described on the drawing below.



Dwg. 3 Pins for monitor connection

Floor panel BVC-6501 (not included in the delivered set)

Vandal proof panel with colour camera and integrated light source (LED), loudspeaker, microphone and call pushbutton. Panel is mounted on the plaster. In the panel there is transmitter releasing the electro-catch after pressing the pushbutton in the monitor.



Dwg. 4 Floor panel BVC-6501

Service of “installation procedure” (requires activation in CD system)

During activated monitoring from the camera of CD system we should press quickly a few times pushbutton CONVERSATION (signalling diode LED1 and LED2 will light) and then pushbutton LOCK. Electronic cassette of CD system will search monitor – after founding it monitor number will be reproduced in the loudspeaker. Sound signals will be generated according to the number of hundreds, tens and unities of the programmed number. Longer break means passing to next digit in the programmed number and longer duration of sound signal means zero value of a given digit.

If pushbutton LOCK is not pressed within 30 sec the procedure will be stopped automatically. After finishing of number reconstruction it is possible to select calling signal for this monitor by sequential pressing pushbutton LOCK; pushbutton CONVERSATION is used for changing calling volume. Four volume modes are possible: quiet, intermediate, loud and increasing (three short signals of increasing frequency).

After having made the changes pushbutton CONVERSATION should be pressed and held for a moment, then the centre will call back to monitor and the fitter will be able to check the functioning of acoustic track and electro-catch.

3. Monitor programming

In standard delivery in each monitor number 63 is programmed. This is a test number and even in apartment 63 it should be programmed again.

Programming should be done directly after monitor connection and its mounting.

Programming should be done when monitor power supply is cut off.

Note!

In the monitor apartment numbers within a range 1...255 can be programmed. Programming a number bigger than 255 is not possible. Number “0” should not be programmed!

Each such attempt will cause programming of default number “63”.

Programming is done by means of pushbuttons: PROG (in the monitor rear part), LOCK and CONVERSATION as well as signaling diodes LED1 and LED2.

Functions of pushbuttons during programming monitor number:

PROG	- entering programming mode
CONVERSATION	- entering programmed value
LOCK	- confirmation of entered value, passing to next programming stage

Arrangement of pushbuttons and signalling diodes is shown on dwg. 1 and 2.

Programming new number requires the following activities:

- 3.1. We should press three times pushbutton PROG on a plate in the monitor rear part (see dwg.2) – this should be done within 3 sec. Monitor passes to programming mode which is signalled by a short flash of LED1 and LED2 diodes.
- 3.2. *Setting number of hundreds.* Pushbutton CONVERSATION should be pressed as many times as there are hundreds in the programmed number (0,1 or 2). Each pressing is signalled by flashing of LED2 diode. Then entering number of hundreds should be finished by pressing pushbutton LOCK which will be confirmed by longer flashing of a diode. If the number of hundreds is equal to 0 (programmed number smaller than 100) pushbutton LOCK should be pressed immediately and the next step should be realized – entering the number of tens.
- 3.3. *Setting number of tens.* Pushbutton CONVERSATION should be pressed as many times as there are tens in the programmed number (0,1 or 2). Each pressing is signalled by flashing of LED2 diode. Then entering number of tens should be finished by pressing pushbutton LOCK which will be confirmed by longer flashing of a diode. If the number of tens is equal to 0 pushbutton LOCK should be pressed immediately and the next step should be realized – entering the number of unities.
- 3.4. *Setting number of unities.* Pushbutton CONVERSATION should be pressed as many times as there are unities in the programmed number. Each pressing is signalled by flashing of LED2 diode. Then entering number of unities should be finished by pressing pushbutton LOCK which will be confirmed by longer flashing of a diode. If the number of unities is equal to 0 pushbutton LOCK should be pressed immediately.
- 3.5. *Finishing the programming procedure. Checking the number.*
LED2 starts flashing as many times as there are hundreds, tens and unities in the programmed number. Longer break means passing to next digit in the programmed number while longer flashing of LED1 means a zero value of a given digit. After finishing reproducing the programmed number LED1 and LED2 will light at the same time, then one diode will extinguish depending to volume level of acoustic signal before starting the programming procedure.
- 3.6. If the number is not programmed within 30 sec the procedure will be stopped automatically and monitor number will not be changed.

4. Checking the monitor number

To check the monitor programmed number pushbuttons CONVERSATION and LOCK should be pressed at the same time in waiting mode (no audio or video connection). LED1 and LED2 will light for a moment then the programmed number will be reproduced according to item 3.5.

5. Configuration of video line

Depending on the topology of video signal transmission system there are available three set-ups of video line configurations. This is done by means of jumpers available in the cut-out in the rear part of monitor casing (see dwg. 2 or sticker on the monitor rear part (see dwg. 2 or sticker at the monitor rear part).

- BNC – set the jumper in this position if video signal is sent by a concentric cable.
- UTP - set the jumper in this position if video signal is sent by UTP spiral cable.
- UTP+TERMINATOR - set the jumper in this position if video signal is sent by UTP spiral cable and the monitor is located at the end of video bus bar or is the only line load.

6. Monitor control

Monitor is equipped with smooth control of volume, colour saturation and picture brightness as well as three step control of acoustic signals (calling from external panel, calling from floor panel, door bell).

Conversation loudness can be changed by changing the position of potentiometer at the monitor lower part to receive the required loudness.

Volume of acoustic signalization can be changed only if no connection is made. For this purpose pushbutton LOCK should be pressed and held for a moment until LED1 or LED2 is changed (approx. 2 sec). LED1 means loud signal, LED2 – muffled and flashing LED2 means switched off signalling (no possibility of making connection or monitoring). Next longer pressings of pushbutton LOCK result in sequential change of volume (loud, quiet, switched off) and state of signaling diode.

Set volume level is kept in memory also after fading of monitor power supply.

Note!

In special cases audio signal can be corrected by means of the following potentiometers available after the monitor rear casing has been taken off:

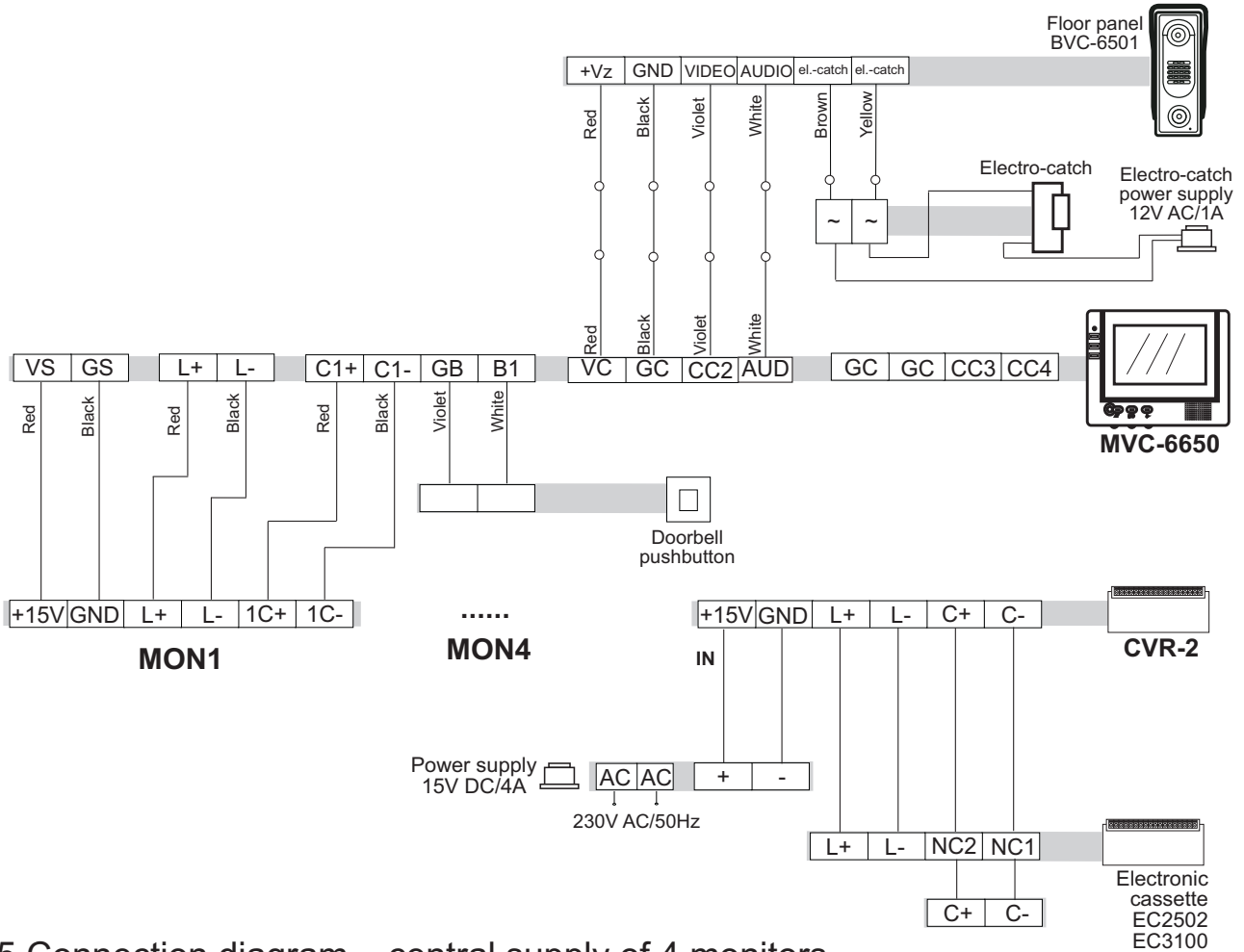
- BAL - correction of loudness level of a signal coming from external panel
- MIC1 - correction of loudness level of a signal going to external panel
- SPK2 - correction of loudness level of a signal coming from floor panel

After removing of the monitor rear casing potentiometer MIC2 is accessible; it is used for the correction of loudness level of a signal going to floor panel.

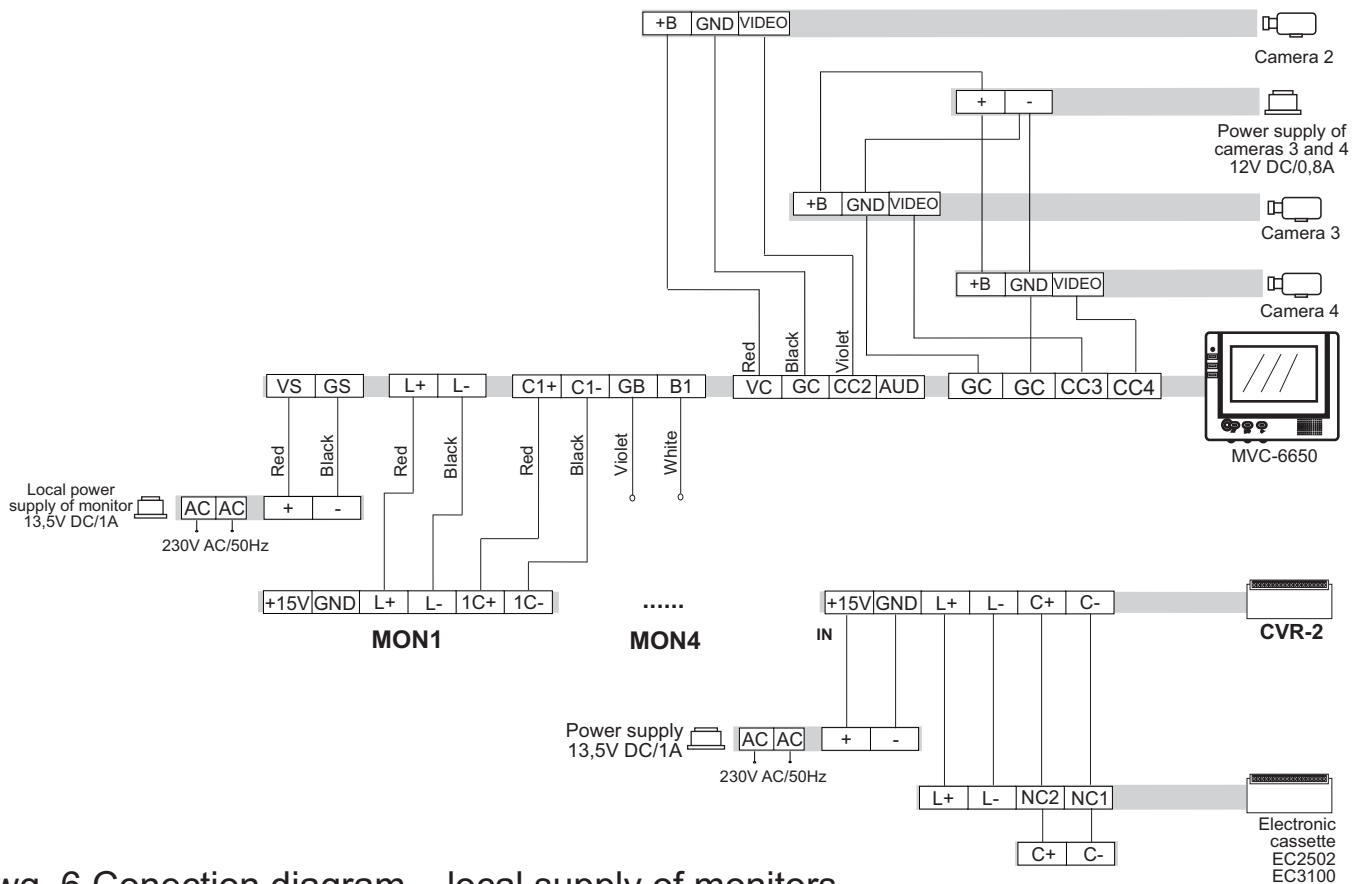
In normal conditions satisfactory control is ensured by a potentiometer located in the monitor lower part (see dwg.1).

7. Technical data

El. supply:	13,5V DC/1A
Screen diagonal:	7"
Protection degree:	IP30
Operating temperature:	(0 – 70) °C
Dimensions:	240x175x35 mm



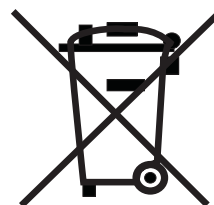
Dwg. 5 Connection diagram – central supply of 4 monitors



Dwg. 6 Connection diagram – local supply of monitors

INSTRUCTION ON ENVIRONMENT PROTECTION

This product was marked with a symbol of crossed dustbin according to European Directive 2002/96/WE on used electric and electronic equipment. Used equipment cannot be placed with other wastes from households. Product user is obliged to give it to the firm which collects used electronic or electric equipment such as local collection points, shops, places appointed by the producer or commune waste collection units.



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Product packing should be removed according to environment protection regulations.

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Return of packaging materials for the material recycling saves raw materials and reduces generating of wastes.



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