



# Operating manual

# MVC-6650

## 1. Safety of use

- Monitor connection should be made by a specially trained fitter.
- Monitor should be connected to the system with **power supply cut off**. Power supply should be switched on after making sure that other connections are correct.
- Monitor should be installed in an easily accessible place; it should not hamper its use or cause any danger.
- It is forbidden to connect the monitor to the systems other than entry phone systems made according to the requirements and recommendations of the producer.
- The location of connection receptacles and control elements is shown on a sticker placed on the monitor rear cover.
- Monitor should not be exposed to high temperature or moisture; it should be protected against flooding with any liquids.
- Openings in monitor casing should not be covered because this can result in its improper operation.
- No metal objects can be put into the openings in monitor casing because this can cause the equipment damage.
- Electrical supply from sources other than original feeders is forbidden because this can cause monitor damage or fire.
- Repair of the equipment by unauthorized persons is forbidden because this results in loss of guarantee.
- It is forbidden to bring an ear close to the monitor loudspeaker because, in case of loud acoustic alarm, this can result in hearing defect.

## 2. 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.

Monitor can be supplied directly from individual power supply adaptor

13,5V DC/1A or from video signal separator CVR-2 to which central feeder is connected 15V DC/4A.

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

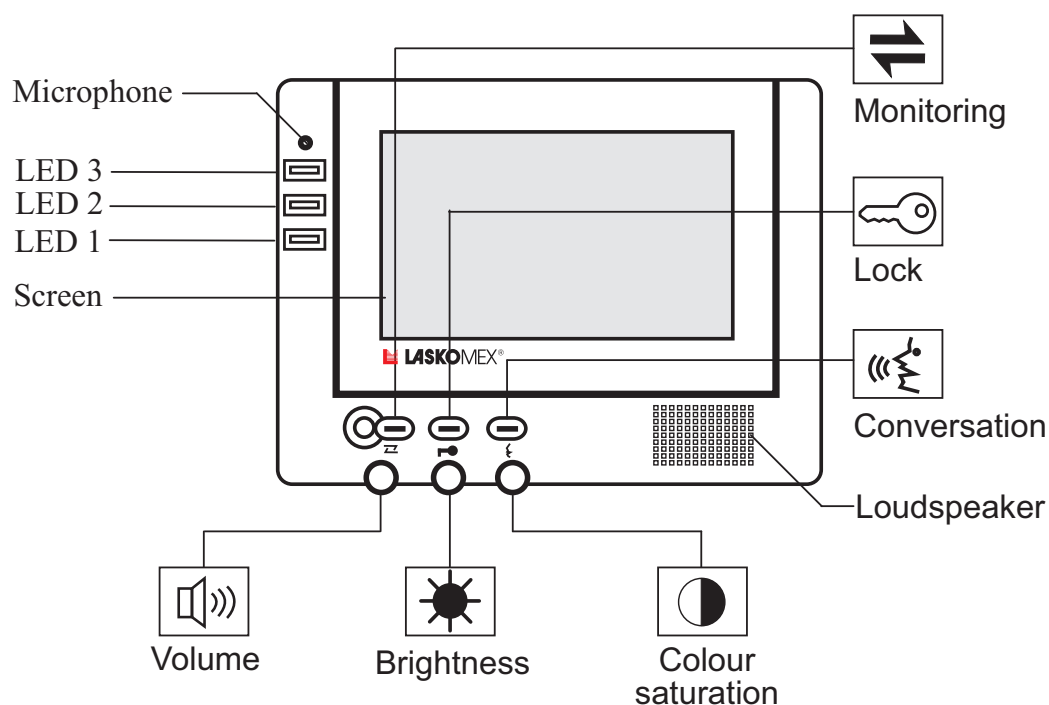
Additional cameras CAM3 and CAM4 require separate power supply 12V DC stabil./0,8A (dwg 6). This power supply adaptor is not included in standard delivery of monitor.

### 3. Use of monitor

There are three pushbuttons in a monitor:

- **Monitoring** (↔) - switching on and off monitoring from camera, finishing the connection, extending the connection time.
- **Lock** (🔑) – control of electro-catch, change of the volume of monitor acoustic alarm.
- **Conversation** (🔊) – receiving and making connections, switching on the acoustic track monitor – panel, extending the connection duration.

At the bottom of the monitor there are three potentiometers for smooth regulation of volume (🔊), colour saturation (◐) and picture brightness (☀️). Monitor is equipped with a three signalling diodes.



Dwg.1 Monitor view MVC-6650

### 3.1. Connection from the external panel CD-xxxx

Described in item 4.1.

### 3.2. Connection from floor panel BVC-6501

To make a connection after calling from floor panel a pushbutton CONVERSATION in the monitor should be pressed. It can be done during calling or just after it. The connection can be made by pressing pushbutton CONVERSATION when camera monitoring from panel is switched on. User can listen to a caller and he can speak to the microphone without pressing any pushbuttons - acoustic tracks are switched over automatically. If the need arises acoustic track monitor-panel can be forced by pressing pushbutton CONVERSATION at the moment when we are talking (SIMPLEX mode).

Conversation time is limited to 2 minutes. Last 10 seconds of the limited time is signalled by fast flashing diode LED2 (for loud signalling of acoustic signals). In case of muffled acoustic signals diode LED1 flashes. Pressing the pushbutton MONITORING or pushbutton CONVERSATION during diode flashing extends monitoring or conversation time by 1 minute.

Connection with floor panel BVC is signalled with diode LED3.

When monitoring from camera is switched on in external or floor panel, then calling from the other source will result in automatic switching over to this source and a call will be made, which will be signalled by appropriate acoustic signal.

Answering other call is possible after switching over of camera monitoring to the source from which monitor is called (pressing pushbutton MONITORING) and then pressing pushbutton CONVERSATION. This does not terminate current connection.

Switching over monitoring between the cameras means that the caller is changed (audio track is switched over simultaneously with video track).

### 3.3. Control of electro-catch

Electro-catch can be activated only during an activated connection by pressing pushbutton LOCK.

*Applies to CD system:*

- Activation of electro-catch is signalled by a momentary fading away of a signalling diode LED1 (LED2 for muffled signaling).
- After pressing pushbutton LOCK the connection will be terminated automatically after a few seconds or earlier, if pushbutton MONITORING is pressed for a longer time.

*Applies to floor panel BVC-6501:*

- At the moment of activation of electro-catch controlled from the floor panel a picture flash can be seen on the monitor screen.

### **Function “Fast entrance” (available in systems CD-2502 and CD-3100)**

This function is available in CD system only - with main entrance and subordinate entrances. After having made the connection by a visiting person at the main entrance, the tenant releases the electro-catch by pressing pushbutton LOCK and then presses pushbutton CONVERSATION – in the loudspeaker short sounds of increasing tones can be heard; they signal activation of fast entrance function. Pressing pushbutton CONVERSATION again switches off this function. A visiting person comes then to a subordinate entrance leading to the apartment where the function was activated and selects its number. Electro-catch is released automatically (which is signalled in a monitor by a series of short sounds and switching on monitoring from a camera at the subordinate entrance) without the necessity of making the connection with the apartment again.

### **3.4. Finishing the conversation.**

Tenant can finish the conversation at any moment by pressing pushbutton MONITORING in a monitor for a longer time. If two connections are made the monitor will switch over to the second caller.

*Applies to CD system:*

- Conversation from CD system can be finished also by a visiting person by selecting symbol C on the external panel keyboard.
- After the lapse of the selected time the conversation will be finished automatically by entry phone centre. 10s before the end of the conversation in the loudspeakers of monitor and external panel of CD system short acoustic signals can be heard every 1s. Standard conversation time amounts to 120s, however, it can be changed by the fitter.

*Applies to floor panel BVC-6501:*

- Conversation will be ended automatically after the lapse of the time limit selected in the monitor (2 min) and when the user did not extend it by pressing pushbutton MONITORING or CONVERSATION for a short time.

### **3.5. Monitoring from camera.**

In any moment it is possible to switch on monitoring from the camera in external panel of CD system, floor panel BVC-6501 (or alternatively additional camera) or cameras CAM3 and CAM4 by pressing pushbutton MONITORING in the monitor. In case of CD system it is possible to switch on monitoring provided that at that moment conversation with other subscriber is not made. Busy line is signalled in all other monitors by fast flashing of LED1 signalling diode (LED2 for muffled signaling).

#### **Note!**

The condition of switching on monitoring from camera in external panel is an activation of continuous power supply to camera – parameter is set by the fitter.

Switching on of the monitoring is not possible if acoustic signalling is switched off.

The first pressing of the pushbutton MONITORING activates monitor and shows picture from the camera, which was activated latest. If this is not possible (system CD is busy) then monitoring from floor panel BVC-6501 or additional camera is switched on. If there is no floor panel or additional cameras on the monitor screen black picture is visible.

Next pressings of pushbutton MONITORING enable switching over the picture source - external panel, floor panel BVC-6501, CAM3 and CAM4.

As in the case of conversation the monitoring time is limited to 2 minutes. Last 10 seconds of the limited time is signalled by fast flashing diode LED1 or LED2. Pressing the pushbutton MONITORING during diode flashing extends monitoring time by 60 seconds. Monitoring can be switched off at any moment by pressing pushbutton MONITORING for a longer time.

### **3.6. 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.

## **4. Entry phone use CD-xxxx**

### **4.1. Making connection; conversation**

Select the apartment number by touching the digits on the external panel. The number should appear on the display. Time between entering next digits of the selected number should not exceed 3 sec. After the lapse of this time CD system will start making connection with a number shown on the display. If the wrong number was selected it should be deleted by touching "C" and correct number should be entered.

If message OFF appears after number selection it means that this number is not serviced by the switchboard.

Numbers not higher than 999 can be selected from the keyboard (for CD-2100 and CD-2500) and 9998 for CD-2501, CD-2502, CD-3000 and CD-3100.

The selection by means of the keyboard the apartment number corresponding to monitor number results in appearing of a calling signal which lasts 30 sec and a picture from the camera located in external panel of CD system. Monitor waits for next 30 sec for answering the call and after this time the connection is broken. If till that time pushbutton CONVERSATION is pressed in the monitor (see dwg.1) this will result in making connection, conversation, monitoring and control of electro-catch by means of a pushbutton LOCK. Standard conversation time is limited to 120 sec. The above parameters can be changed by the fitter. Last 10 sec of the limited time is signalled by LED2 (LED1 for muffled signaling) flashing diode.

Making connection by the monitor is signalled by LED1 and LED2 light of a diode at the same time.

User can listen to the visitor and speak himself to the microphone without pressing any buttons – acoustic tracks are switched over automatically. If noise level at the external panel is too high and acoustic track monitor – panel cannot be switched on by speaking to the microphone, it should be forced by pressing pushbutton CONVERSATION for the time of speaking.

## 4.2. Use of coded lock in CD system

Users of digital entry phone systems may use a coded lock. Number of entering code is settled individually for each apartment. This number is given by a fitter and can be changed at the request of a tenant. The tenant can change it himself – see item 4.4.

In order to use a coded lock one should:

- select the apartment number on the keyboard – it will appear on the display
- touch the filed with a symbol of key on the keyboard
- enter the entrance code.

Digits “0” in a code are significant and cannot be omitted even if they are at the beginning!

Entering correct code causes unlocking the electro-catch.

The use of entrance code is signalled by short acoustic signals in a monitor installed in the apartment whose code has been used for opening the electro-catch and switching on the monitoring from the camera. In case the wrong code is used it is signaled in a monitor by two longer acoustic signals and switching on monitoring from the camera.

## 4.3. Use of electronic key in CD system

To unblock the entrance with iButton key (DALLAS) it should be put to the reader in external panel. If the serial number that was read corresponds to one of the programmed numbers in the memory of CD system, the entry phone will release the electro-catch.

The use of iButton key is signaled by short acoustic sounds in the monitor installed in the apartment whose key was used for opening the electro-catch.

Tenant can register next electronic keys himself (see item 4.4) but only at the entrance leading to his apartment. Keys for opening of the main entrance must be registered by the fitter.



#### 4.4. User's menu in CD system (only CD-2502 and CD-3100)

This menu is available in systems named 2502 or 3100. In order to check which system is present, the button [9] should be chosen four times on the panel keyboard, after a moment on the panel display the system name and software version will appear.

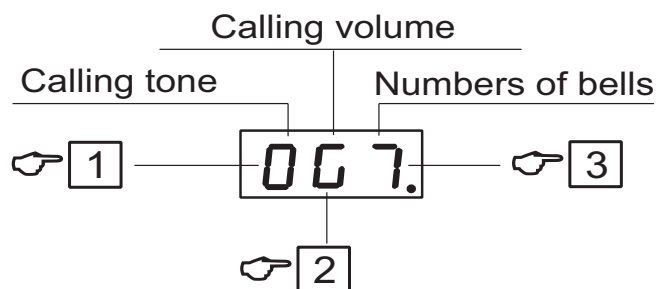
Occupant can change from the entry phone keyboard (this refers to subordinate entrance) some operation parameters such as:

- calling tone,
- volume,
- number of rings,
- code of coded lock,
- register new electronic keys.

To make changes an occupant must activate user's menu. Some person in the apartment must help.

##### User's menu activation:

- a) Make connection with the apartment (only from the subordinate entrance panel).
- b) Press button with a sign of a key and while pressing it ask a person in the apartment to press the catch button five times. Activation of a function is signaled with three short signals in uniphone receiver and external panel and also with message [OPC] displayed temporarily on the external panel's display.
- c) Finish the conversation.
- d) Enter the apartment number, press button with a sign of a key and enter the code of coded lock. On the display user's menu will be shown, where parameter's edition is available (see dwg. below).



Dwg.2 User's menu

- [1] The first sign on the display defines calling tone (0...7). Calling signal can be changed by pressing the key marked with number [1].
- [2] The second sign on the display defines volume of calling signal (G -loud, N - increasing, C - soft, U - moderate). Selection of increasing signal is sensible at the number of rings higher than 1. Volume is controlled with key [2].
- [3] The third sign on the display defines the number of rings (1-8) - decides how long the uniphone rings. Number of signals is controlled with key [3].

### **Change of coded lock code**

To change the code of coded lock, user's menu should be activated and key [0] should be selected. For a moment messages [NEU] and [CODE] and then four horizontal bars will appear and then new code of coded lock should be entered. New code should be entered twice. Option of changing the code by the user can be blocked by an installing specialist!

### **Registering of a new electronic key**

In user's menu after selecting 8, message [ADD] will appear on the display. Electronic key should be put to the reader. Message [NEU] means that key was recorded in memory and attributed to the apartment. If a key, which was recorded earlier is put to a reader, on the display message [OLD] will appear.

### **Exit from user`s menu**

To exit from edition of user's menu (not to exit from the whole procedure) in order to check and to correct settings, press the key with a symbol of key [KEY]. There is a possibility to make a call.

To finally exit from the whole procedure press the key [C]. In this case the second enter to the menu requires repeating the whole procedure from the beginning.

After about 4 minutes of inactivity, access to the user`s menu will be turn off automatically.

In this procedure the necessity of cooperation with other person has been introduced in order to prevent unauthorized changes of entry phone parameters.

## 5. Bell function

In a monitor there is a generator which can function as a door bell. The generator is activated with a bell pushbutton connected to appropriate terminals in the monitor.

Pressing the bell pushbutton causes generating gong sound. If bell pushbutton is pressed during monitor calling then calling signal will be replaced for a moment by gong sound.

Generator of monitor acoustic signals generates three kinds of signals:

- door bell
- calling from floor panel BVC-6501
- calling from external panel while the connection is made with floor panel BVC-6501.

All signals are automatically turned down during the conversation.

**Note:** bell terminals (GB, B1) should not be connected to other electrical systems, especially 230V mains.

## 6. Maintenance

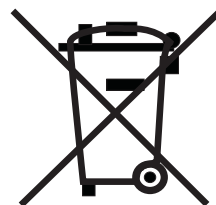
- Monitor should be cleaned with soft, damp cloth.
- Monitor inside should not be flooded with water or other liquid because this can cause the equipment damage.
- No abrasive materials can be used because they can scratch the casing surface.
- No benzene or solvents can be used for cleaning.

## 7. Technical data

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

## 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.



List of collecting units of used Laskomex equipment is available on [www.laskomex.com.pl](http://www.laskomex.com.pl) website or telephone No. **42 671 88 68**.

Product packing should be removed according to environment protection regulations.

### **Remember!**

**Selective collection and recycling of used electronic and electric equipment considerably contributes to the protection of human health and life as well as protection of natural environment.**

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



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