



LASKOMEX®



Operating manual

MVC-6850

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 hold the receiver close to an ear while pressing the hook or while the hook is on because in case of loud acoustic signal this can result in hearing defect.**

2. Monitor use

MVC-6850 is a monitor with receiver operating in DUPLEX system – it is not required to press any pushbuttons to carry on the conversation.

Monitor MVC-6850 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 should not exceed 250mA at supply voltage 12V DC (CAM2).




Monitor can control gate drive by short circuit the external terminal to the ground.


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.

3. Use of monitor

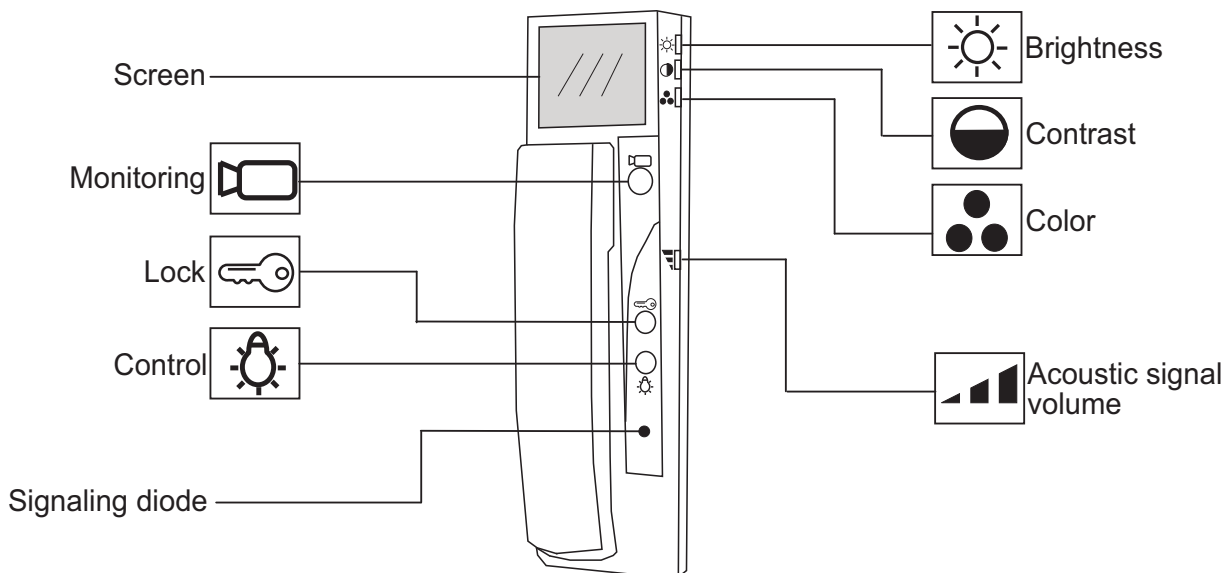
There are three pushbuttons in a monitor:

- **Monitoring** () - switching on and off monitoring from camera, extending the connection time.
- **Lock** () - control of electro-catch.
- **Control** () - control of external device.

On the right side of the monitor there is switch () for control of acoustic signal volume: loud, quiet and switch off.

On the right side of the monitor there are three pushbuttons for step regulation of picture brightness (), contrast () and colour saturation ().

Monitor is equipped with a two-coloured signalling diode.



Dwg.1 MVC-6850 monitor view

3.1. Connection from the external panel CD-xxxx

Described in item 4.1.

3.2. Connection from floor panel

To make a connection after calling from floor panel a receiver should be picked up. It can be done during calling or just after it.

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.

Call from other source while having conversation is signalling in receiver by suitable acoustic signal.

Answering other call while having conversation is possible after switching over of camera monitoring to the source from which monitor is called (pressing pushbutton MONITORING). Next if this source is a CD system, hook-switch should be pressed for about 1sec. If a floor panel is a source, conversation will be started automatically after switching over of camera monitoring to this source. 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).

During conversation, switching over of camera monitoring to other source is possible. It does not affect on current conversation (conversation can be continue while monitoring from other source).

3.3. Control of electro-catch

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

Applies to CD system:

- Pushbutton LOCK keystroke results in about 3sec electro-catch activity (this time is signalled by lighting of signalling diode of red color). During continuous keystroke, electro-catch is active as long as the pushbutton LOCK is pressed.

3.3.1 Control of external device

External device is controlled by pressing pushbutton CONTROL which results in short circuit BR terminal to the ground in about 3sec (this time is signalled by lighting of signalling diode of red color).

Depending on the settings monitor (see the instruction installation and activation point 3), there are two ways to short circuit the output terminal BR to GND:

- when handset is take off from hookswitch
- Only when connection is established

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 hook-switch – in the loudspeaker short sounds of increasing tones can be heard; they signal activation of fast entrance function.

Note: Pressing hook-switch 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 hanging up the receiver. If two connections are made the monitor will finish them both.
- If two connections are made and actual caller is floor panel, then short-lived press of hook-switch will finish this conversation and switch over to CD system conversation.

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 120 s, however, it can be changed by the fitter.

3.5. Monitoring from camera.

In any moment it is possible to switch on monitoring from the camera in external panel of CD system or from floor panel (or alternatively from additional camera) by pressing pushbutton MONITORING in the monitor while the receiver is hung up. 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 green signalling diode (red when acoustic signal volume is muted).

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 in external panel of CD system. If this is not possible (system CD is busy) then monitoring from floor panel or additional camera is switched on. If there is no floor panel or additional camera on the monitor screen black picture is visible.

Next pressings of pushbutton MONITORING enable switching over the picture source from external panel to floor panel and the other way round.

The monitoring time is limited to 2 minutes. Last 10 seconds of the limited time is signalled by fast flashing diode. 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 three step control of acoustic signals volume (calling from external panel, calling from floor panel, door bell).

Volume of acoustic signalization can be changed by switch on the right side of monitor. Upper position means loud signal, middle position - quiet and lower position means switched off signalling which is also signalled by red color of signalling diode.

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 the receiver in the monitor is picked up (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 short acoustic signals every 1 sec.

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:

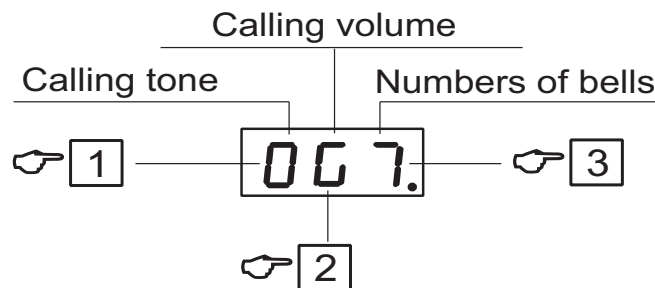
- calling tone,
- volume,

- 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 LOCK pushbutton five times. Activation of a function is signaled with short signal in monitor 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
- calling from external panel while the connection is made with floor panel.

All signals are automatically turned down during the conversation.

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

6. Maintenance

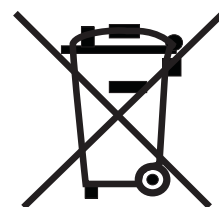
- Monitor should be cleaned with soft, damp cloth.
- Monitor inside should not be flooded with water or other liquid because this can cause the equipment damage.
- No abrasive materials can be used because they can scratch the casing surface.
- No benzene or solvents can be used for cleaning.

7. Technical data

El. supply:	13,5V DC/1A
Screen diagonal:	2,36"
Protection degree:	IP30
Operating temperature:	(0 – 50) °C
Dimensions:	270x80x50 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 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.