



Installation and operation manual

Video doorphone DUX

OR-VID-MT-1050



Be sure to read the **operating manual** before installation!
Damage resulting from incorrect installation
ARE NOT SUBJECT TO WARRANTY REPAIRS!



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1. SAFETY INSTRUCTIONS

Before using the device, read this Service Manual and keep it for future use. In case something written herein is unclear, please contact the seller. Installation and commissioning of the equipment by the customer are possible if the installer has basic knowledge of electrical systems and the use of proper tools. Nevertheless, the device installation by qualified personnel is recommended.

The manufacturer is not responsible for any damage that can result from improper device installation or operation. Any repair or modification carried out by yourselves results in loss of guarantee.

Due to the fact that the technical data are constantly being modified, the manufacturer reserves the right to make changes without notice. Orno Logistic Sp. z o.o. reserves the right to make changes to the Manual – the latest version of the Manual can be downloaded from www.orno.pl. Any translation/interpretation rights and copyright in relation to this Manual are reserved.

1. Disconnect the power supply before performing any activities.
2. Do not immerse the product in water or other liquids.
3. Do not operate the device with damaged housing.
4. Do not open or repair the device yourself.
5. Do not use the device contrary to its dedication.
6. Do not install the monitor near devices that emit strong magnetic fields such as TV sets or speakers.
7. Do not install the monitor in a location subject to high humidity, vibration, shock or strong sunlight.
8. Turn off the power if there are "abnormal" sounds coming from the device.
9. After installation and mounting, remove the protective foil from the monitor screen.



Each household is a user of electrical and electronic equipment, and hence a potential producer of hazardous waste for humans and the environment, due to the presence of hazardous substances, mixtures and components in the equipment. On the other hand, used equipment is valuable material from which we can recover raw materials such as copper, tin, glass, iron and others. The weee sign placed on the equipment, packaging or documents attached to it indicates the need for selective collection of waste electrical and electronic equipment. Products so marked, under penalty of fine, cannot be thrown into ordinary garbage along with other waste. The marking means at the same time that the equipment was placed on the market after August 13, 2005. It is the responsibility of the user to hand the used equipment to a designated collection point for proper processing. Used equipment can also be handed over to the seller, if one buys a new product in an amount not greater than the new purchased equipment of the same type. Information on the available collection system of waste electrical equipment can be found in the information desk of the store and in the municipal office or district office. Proper handling of used equipment prevents negative consequences for the environment and human health!



2. CHARACTERISTICS

The video doorphone is designed for installation in 1-family buildings.

Functions:

- the possibility to talk to the person at the entrance and observe at the same time on the monitor screen;
- directly control the electric strike;
- gate control;
- bright LED lighting enables night vision;
- smooth adjustment of monitor parameters (brightness and saturation of the image, call volume);
- intercom function after using additional monitor.

Main features:

- high quality color camera;
- surface mounted camera housing (protective cover included);
- 4.3" LCD color display;
- 4-wire installation (electric strike directly connected with the outdoor unit with 2-wires; no additional power supply required).

3. TECHNICAL DATA

TYPE OF DEVICE:	single family
INSTALLATION METHOD:	4-wires
COMMUNICATION SYSTEM:	wired

MONITOR

SCREEN SIZE:	4.3"
RESOLUTION:	480 x 272
STANDARD:	PAL/NTSC
FUNCTIONS:	Talking, monitoring, electric strike and gate control
NUMBER OF RINGTONES:	16
VOLUME CONTROL:	TAK
POWER SUPPLY:	12V DC, 1.5A
POWER CONSUMPTION:	standby <0.2W, work max <5W
ACCESS CONTROL - ELECTRIC LOCK CONTROL:	yes, (12V DC from monitor)
ACCESS CONTROL - GATE CONTROL:	yes
WORKING TEMPERATURE:	0°C ~ +40°C
MOUNTING:	surface-mounted
DIMENSIONS:	142 x 145 x 19mm
NET WEIGHT:	0.35kg

OUTDOOR UNIT

SENSOR TYPE:	CMOS
RESOLUTION:	700 TVL
VIEW ANGLE (VERTICAL/HORIZONTAL):	36° / 49°
NIGHT LIGHT:	LED diodes
NUMBER OF LEDS:	5
NIGHT VISION RANGE:	4m
INGRESS PROTECTION:	IP44
POWER SUPPLY:	from monitor
WORKING TEMPERATURE:	-20°C ~ +60°C
MOUNTING:	surface-mounted
MATERIAL:	aluminium
DIMENSIONS:	58 x 145 x 30mm
NET WEIGHT:	0.77kg

4. SET CONSTRUCTION



fig. 1 Construction of the video monitor

fig. 2 Construction of the outdoor unit

MONITOR

1. Monitoring
2. Wicket opening
3. Microphone
4. Gate opening
5. Start/end of conversation

6. Ringtone selection
7. Image brightness adjustment
8. Colour intensity adjustment
9. Volume adjustment
10. LCD display
11. Power supply plug

OUTDOOR UNIT

1. Rain shield
2. LED diodes
3. Camera
4. Loudspeaker
5. Call button
6. Microphone

5. INSTALLATION

MONITOR INSTALLATION



fig.3 Monitor installation

1. Screw the supplied mounting frame to the wall.
2. Connect individual wires to the terminals on the back of the monitor according to the connection diagram.
3. Plug the 12VDC power supply connector into the socket.
4. Carefully hang the monitor on the mounting frame.
5. Connect the power supply to 230V~, 50Hz.

OUTDOOR UNIT INSTALLATION

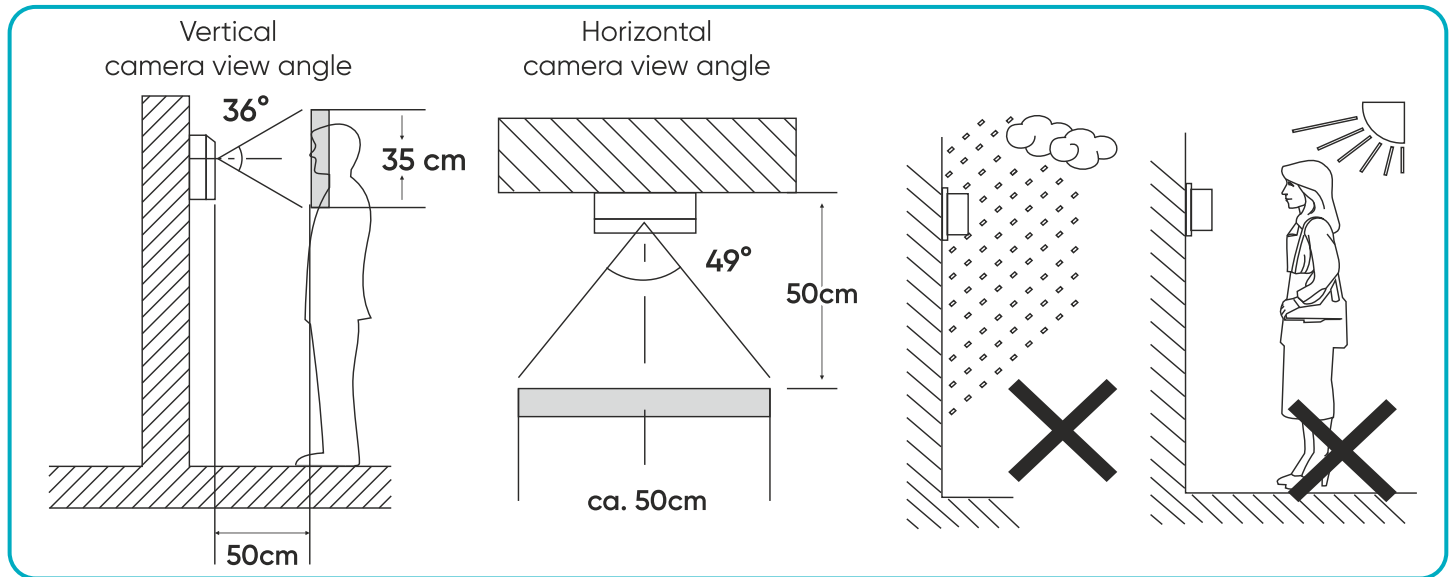


fig.4 Outdoor unit placement

Recommended installation height of the outdoor unit is 140-170 cm.

The correct location of the outdoor unit determines the comfort of working with the device. It is recommended to test the device before making mounting holes. Do not place the outdoor unit and monitor in the same room as feedback may occur.

The outdoor unit is suitable for surface mounting.

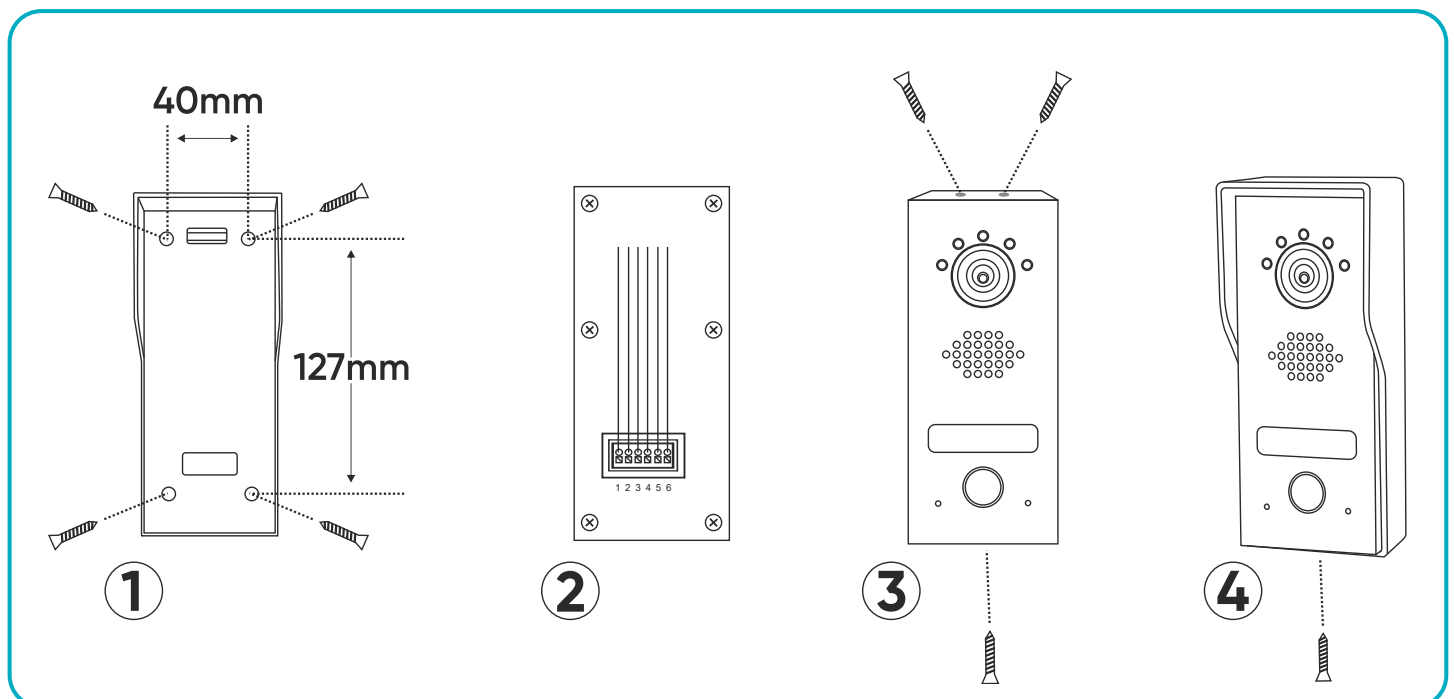


fig.5 Outdoor unit installation

1. Fix the rain shield to the wall with screws.
2. Connect the individual wires according to the wiring diagram.
3. Place the outdoor unit in a wall-mounted rain shield.
4. Screw in the lower screw securing the outdoor unit.

6. WIRING SCHEME

The video doorphone cables should not be routed in one cable with the cables of other installations such as bell, alarm, etc. Any power and telecommunication cables emitting strong magnetic fields (e.g. loudspeaker columns, TV set) in direct contact with the cables connecting the outdoor unit to the monitor may adversely affect the operation of the set.

Do not make any connections if the device is connected to 230V/50Hz!

Failure to comply with the above recommendation may result in damage to the unit.

While designing the wiring system, take into account the suitable cross-section of cables:

up to 30m - recommended cable XzTKMXpw 3 x 2 x 0.5 mm²

from 30m to 100m - recommended cable XzTKMXpw 3 x 2 x 0.8 mm²

The connection to the electric strike should be made with 2 x 1 mm².

Any 12 VDC electric strike with a max current draw of 500 mA can be connected to the set.

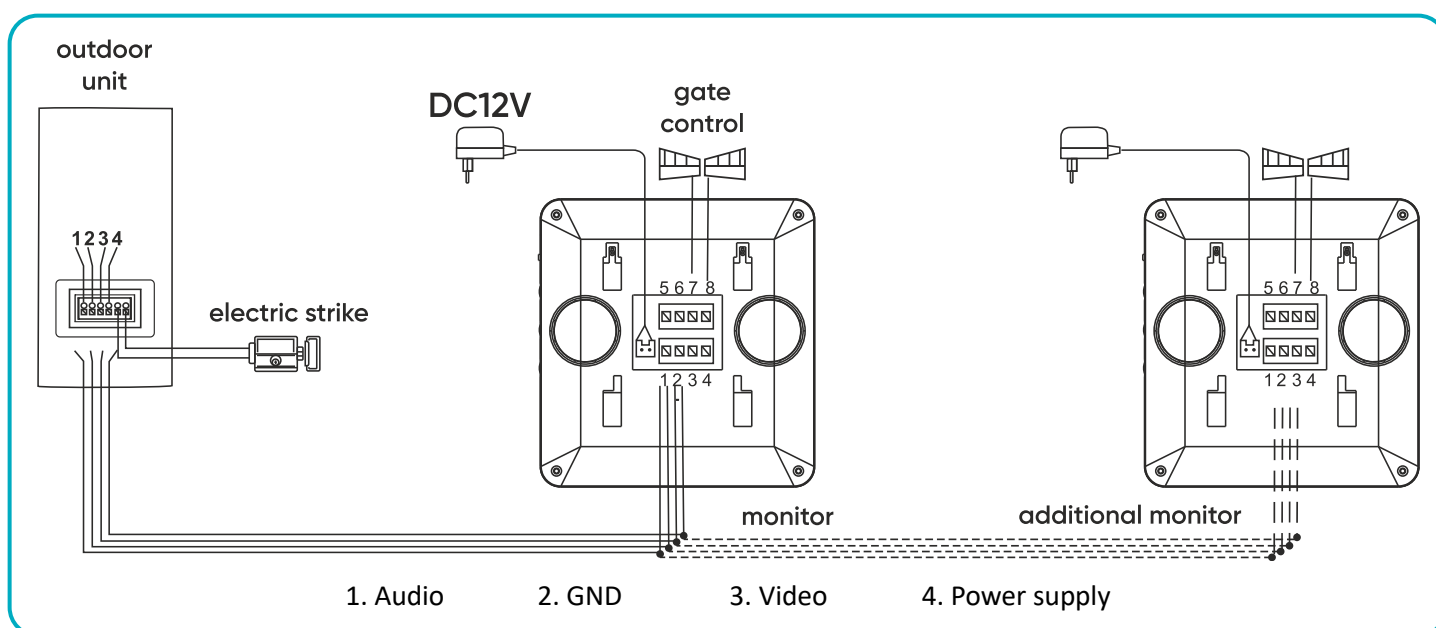


fig.6 Wiring scheme

The set does not include an additional monitor, electric door strike, automatic gate control unit!

7. OPERATION

CALLING

Pressing the call button on the outdoor unit will make the monitor ring a tone and the image of the visitor appears on the screen. To start the call, use the button on the monitor panel to end the call press again. The call and viewing function will remain active for about 2 minutes and then the image will automatically switch off.

MONITORING


It is possible to activate the camera to observe the environment without having to call from outside. To do this in the monitor standby mode, use the button . The duration of the monitoring function is approx. 40 seconds. In this mode, the speaker of the outdoor unit remains switched off. To start a call, press the button .

REMOTE WICKET OPENING




If an electric strike is connected to the device, it is possible to open the door remotely. To do so, during a conversation or monitoring, use the button .



REMOTE GATE OPENING

If an automatic gate control unit is connected to the device, it can be opened remotely from the monitor panel. To do so, use the button .


MONITOR SETTINGS

With the potentiometers located on the side of the monitor, you can set the appropriate picture brightness , color intensity  and conversation volume .

RINGSTONE SELECTION

The monitor has 16 built-in ringtones. The button on the side of the monitor (6) can be used to select the appropriate sound.

INTERCOM FUNCTION

When an additional monitor is connected, there is a possibility of intercom connection (connection between two monitors). The intercom function can be activated from any monitor. To do this, press the button  on the monitor for about 2 seconds. The intercom function remains active for about 60 seconds. If the intercom call is not answered for 30 seconds, the monitor will go into standby mode.

8. CLEANING AND MAINTENANCE

The dirt should be cleaned with a soft, slightly damp cloth with the addition of mild cleaning agents intended for plastic. Do not use cleaning agents based on solvents, petrol, etc. or agents containing abrasive substances.

9. TROUBLESHOOTING

1. No sound or vision, nothing works
 - a) check the network connection,
 - b) defective or badly connected monitor.
2. Unclear image
 - a) check the settings and adjust.
3. In the image, numerous interferences, no synchronicity (image blinks)
 - a) the connection cable has a cross-section not matching the length,
 - b) connection too long – use shielded cable,
 - c) poor cable quality,
 - d) strong source of electromagnetic interference – use shielded cable.
4. The audio on the monitor is coupling
 - a) check your installation for technical requirements,
 - b) check that the installation is not exposed to water and moisture etc.
5. The electric strike does not open every time
 - a) check the independent operation of the electric strike.
6. Scratched monitor
 - a) check that the protective film is removed from the screen.