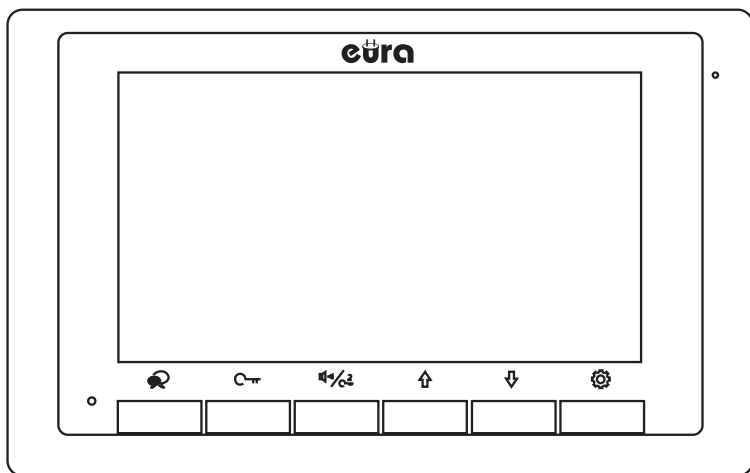




# MONITOR

## 2-WIRE VIDEO DOOR PHONE

**VDA-49A5 v.2**



User manual and  
warranty card



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### **INTRODUCTORY REMARKS**

Before installing, connecting and using the device, please read this user manual carefully. If you have any problems understanding its content, please contact the seller of the device. You can install and start the device yourself, provided you use the right tools. However, it is recommended that the device be installed by qualified personnel.

The importer is not liable for any damage that may result from improper installation or operation of the device or from unauthorized repairs or modifications.

The EU declaration of conformity for this device can be found here  
on the website <http://www.eura-tech.eu>



## 1. GENERAL CHARACTERISTICS AND INTENDED USE

VDA-49A5 is a single-family color monitor for a video intercom based on the 2-wire Eura 2 Easy system. The device is equipped with a 7" color LCD display. The monitor offers a set of standard functions: communication with a visitor, viewing the camera's surroundings and controlling the bolt at the entrance to the property.

## 2. CHARACTERISTICS OF THE EURA 2 EASY SYSTEM

The 2-wire Eura 2 Easy system is a single or multi-tenant video intercom system, the main idea of which is the simplicity of installation, achieved by minimizing the number of cables and power supplies used. To connect individual modules working in the system, a 2-wire cable and 1 power supply that can handle a maximum of 32 monitors and 4 external stations are sufficient. Thanks to the use of FM modulation to transmit the video signal and ASK modulation to transmit control data, the system is distinguished by high resistance to interference, i.e. very good image color quality at every point of the installation.

Basic functions of the system:

- 2-wire cable connection system between modules at each point of the installation, the method of connecting both wires is optional (no signal polarity),
- only 1 central power supply in the entire system,
- easy and quick installation thanks to the use of simple plugs and DIP switches,
- possibility of installing more monitors within 1 premises (with the same user code),
- ability to remotely operate the system using a landline or mobile telephone.

In addition to external cassettes, it is also possible to connect CCTV monitoring cameras to the system. The maximum number of external stations or cameras and their possible configurations in the Eura 2 Easy system are:

- 4 external stations (cassettes),
- 3 external stations (cassettes) and 2 CCTV monitoring cameras,
- 2 external stations (cassettes) and 4 CCTV monitoring cameras,
- 1 external station (cassette) and 6 CCTV monitoring cameras,
- Up to 32 monitors, up to 4 monitors for 1 user,
- Intercom function between tenants within one system,
- The maximum distance of the external station from the furthest monitor is 150 m. The system can be expanded to support 2 independent electromagnetic bolts. It is possible to connect additional external cassettes and an additional bell (calling gong), as well as the possibility of controlling lighting (e.g. in the staircase) or other devices triggered by a relay. Additionally, it is possible for the user to remotely control the system, using a landline or mobile phone. A special VXA-48A5 telephone module or VXA-62A5 GSM module is required for this, which are connected in series to the 2-wire bus of the Eura 2 Easy system.

The task of the modules is to redirect calls from the external cassette to the specified user telephone numbers. Detailed descriptions of the modules are the subject of separate operating instructions.

The basic configuration of the Eura 2 Easy system in a single-tenant building is shown in Fig. 1, while the basic configuration of the system in a multi-tenant building is shown in Fig. 2. A detailed description of the entire Eura 2 Easy system with all its modules is the subject of a separate instruction manual.

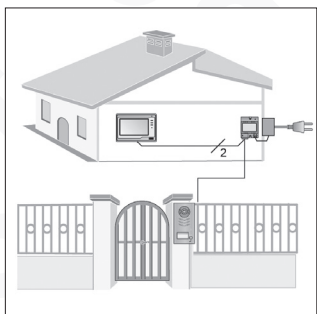


Fig. 1. Configuration of a single-tenant system

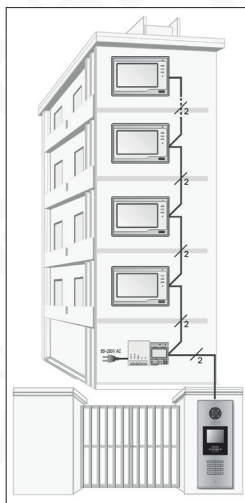


Fig. 2. Multi-tenant system configuration

## 3. MONITOR

### 3.1. MONITOR CONSTRUCTION

The construction of the VDA-49A5 monitor along with the arrangement of all its external elements is shown in Fig. 3.

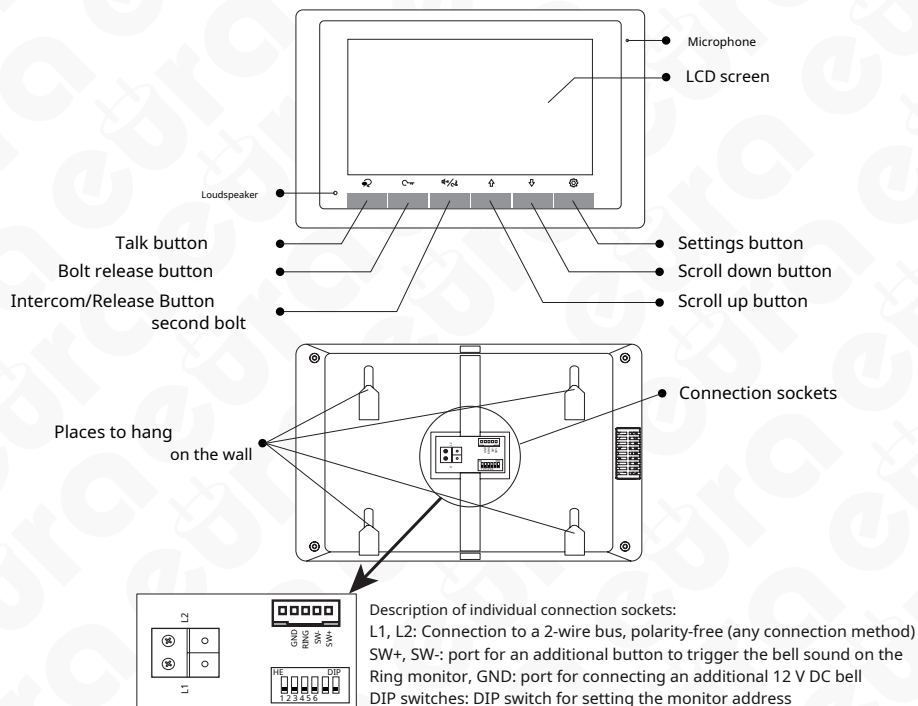


Fig. 3. External view of the VDA-49A5 monitor

### 3.2. MONITOR INSTALLATION

The VDA-49A5 monitor is designed for installation inside the user's premises. The monitor should be installed on the wall (see Fig. 4) as follows: 1. In the selected place on the wall, mount the special mounting frame included in the set. The frame should be mounted using 2 mounting screws 4 x 25 mm.

2. Connect the 2 wires of the cable to the monitor. The order of connecting both wires is arbitrary (no polarity),

3. Carefully hang the monitor onto the 4 hooks of the mounting frame, following the direction of the arrow in Fig. 4.

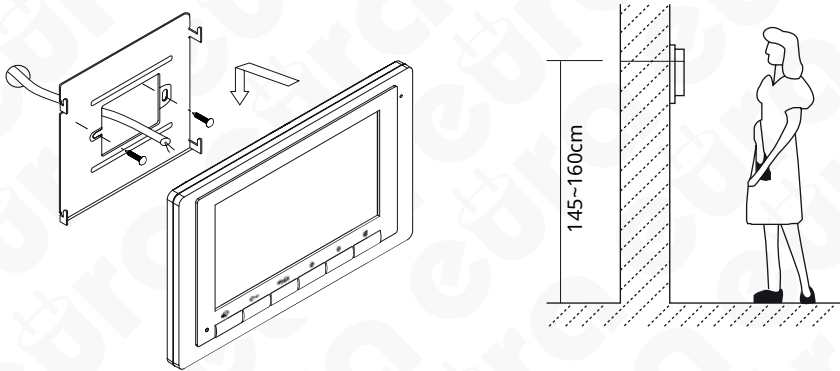


Fig. 4. Installing the VDA-49A5 monitor on the wall

### 3.3. CONNECTION DIAGRAM OF THE MONITOR WITH OTHER SYSTEM MODULES

The method of connecting the VDA-49A5 monitor with the VZA-57A5 power supply module, the VXA-47A5 module and the VDA-75A5 external cassette is shown in the diagram in Fig. 5.

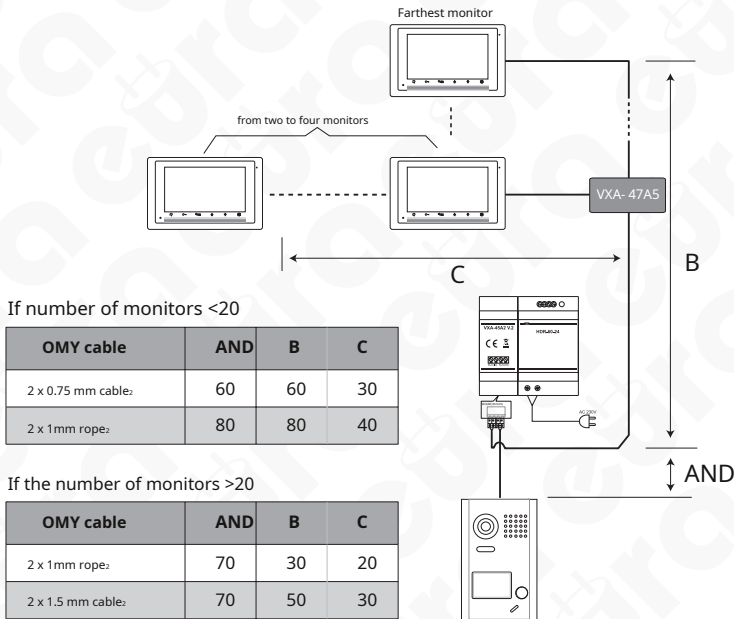


Fig. 5. Selection of cable length and cross-section in the Eura 2 Easy system

## 4. MONITOR OPERATION

### 4.1. MONITOR MAIN MENU

To enter the main screen menu of the monitor, press one of the buttons on the monitor in standby mode: settings button, scroll button.

scroll up or scroll down button; the menu will appear on the screen as in Fig. 6. Exiting the menu is automatic. (See Table 1.)



Fig. 6. Entering the main menu

\* The lighting switch function is only available when using the VXA-70A5 module

### 4.2. CALL FROM OUTSIDE AND VIEW

When a visitor presses the call button on the external module cassette, a gong signal is generated in the internal module and the image of the caller automatically appears on the monitor. After pressing the talk button on the monitor panel (Fig. 7), it is possible to conduct a conversation with the person at the entrance.

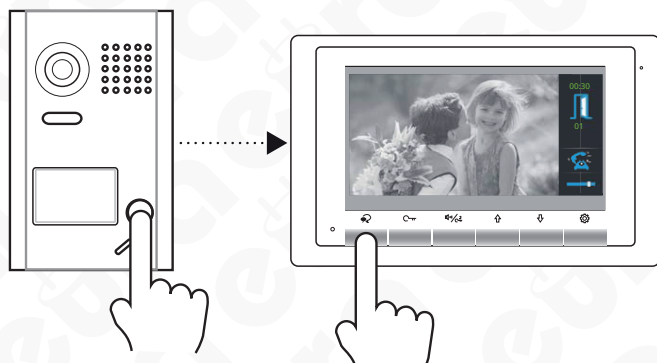



Fig. 7. Calling from an external cassette

The maximum conversation time is 90 seconds, and if the external module does not "speak" within 40 seconds, the monitor will automatically return to standby mode. If the system includes 2 or more monitors connected to each other, activating any one monitor (pressing the talk button) will automatically turn off the preview on the other monitors.

To remotely release the electromagnetic lock (controlling the opening of the entrance door), press the electromagnetic lock release button

. If two electromagnetic locks are connected in the system - second release - it is done by pressing the intercom/second bolt release button






When the monitor is in standby mode, you can view the camera's surroundings - without the need to call from outside. To do this, press the preview button. Pressing the preview button again in the preview mode will start the conversation. To exit the preview mode, press the preview button again. If the button is not pressed again for a longer period, the monitor will automatically return to standby mode.

### 4.3. INTERCOM FUNCTION

The intercom function is available in multi-tenant systems, in the case of expanding the system with an additional monitor (monitors) or an additional handset (headphones). It is used to call a tenant of another premises (e.g. in a multi-family building).

To establish an intercom connection, while in the monitor's main menu, press the intercom button.  A menu will appear on the screen (as shown in Fig. 8).

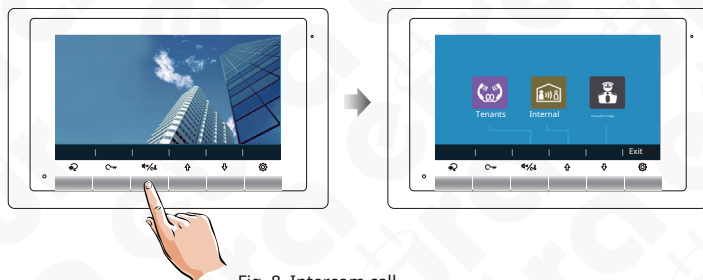








Fig. 8. Intercom call




#### Call from the tenant list

The function is used to call a tenant of another apartment (e.g. in a multi-family building). While in the Intercom menu, press the button  (the content will be auto-generated by the system) - the screen will display and a list of tenants. To move vertically through the list of tenants, use the arrows  and , for horizontal work-wo, use the left and  . After selecting the desired tenant from the list buttons to select the last  (range 01 to call it). The system automatically saves selected location.

\* The building selection function and addressing above 32 tenants is inactive.





#### Internal call

The function is used to call another monitor installed within the same premises, to activate the function press the button. If an intercom call is made  from any internal module, a gong signal is triggered in all other modules. If any internal module takes this call, the other modules stop generating the gong signal.



#### Calling the porter's console

In the Eura2Easy system, one of the monitors can be set as a porter's console; to call the porter's desk, use . This function  is used in multi-family systems.

## 5. BASIC SETTINGS

### 5.1. CHANGING THE GONG MELODY

The device allows you to change the gong melody separately for a call from an external station, an intercom connection and an additional button triggering a call in the monitor (see Fig. 3, port: SW+, SW-).

To change the gong melody, in the monitor standby mode, enter the main menu (chapter 4.1) and then press the settings button.

Using the settings button, select the appropriate call type (the first three squares change the gong melody for: a call from an external station, an intercom call, and an additional button triggering a call on the monitor). Using the scroll down and scroll up buttons, select the melody.



Fig. 9. Changing the gong melody

### 5.2. CHANGING THE VOLUME OF THE GONG MELODY

To change the volume of the chime melody, first enter the main menu (section 4.1) in the monitor standby mode, and then press the settings button. Using the settings button, select the melody volume change menu (the fourth square should be highlighted) and then use the scroll down and scroll up buttons to adjust the melody volume level.

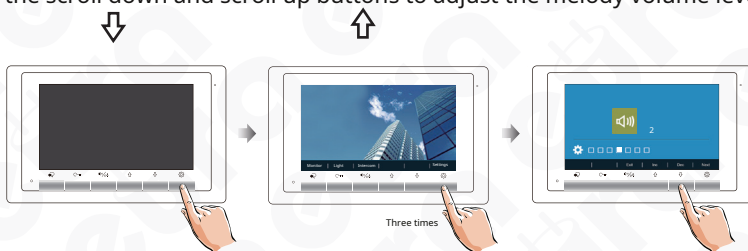


Fig. 10. Changing the volume of the gong melody

### 5.3. RESTORE DEFAULT SETTINGS


To restore the device to the default settings, first enter the main menu (chapter 4.1) in the monitor standby mode, and then press the settings button.

Using the settings button, select the factory reset menu (the fifth square should be highlighted). Using the scroll down or scroll up button, select the "Restore" option, which will restore the device to its factory settings.



Fig. 11. Restoring to default settings

5.4. CHANGING IMAGE PARAMETERS AND CONVERSATION VOLUME

To change the settings of the image and sound parameters, press the settings button  in the monitor conversation preview mode, then a menu with image and sound settings will appear on the monitor screen (Fig. 12), then press the button.








 is used to change the adjustable parameter (  contrast,  brightness,  saturation and  call volume), up scroll buttons  to increase / decrease the value in the range of 0-9. The button is  to exit the settings menu.



Fig. 12. Changing the image and call volume parameters

5.5. LIGHTING CONTROL

The light control function is only available when using the VXA-70A5 module.



To turn on the lighting, go to the main monitor menu (chapter 4.1). By pressing  we turn on the lighting, e.g. in the staircase. Activation time is defined in the VXA-70A5 module. If you want to manually turn off the lighting, click again. 



Fig. 16. Turning the lights on/off

6. INSTALLER SETTINGS

The VDA-49A5 monitor provides a number of functions available from the installer settings. To enter the installer settings mode, first enter the main menu (chapter 4.1) in the monitor standby mode, and then select the sixth square by pressing the scroll button.











Then hold the lock release button  for 3 seconds  Scroll buttons  down  and scroll up the illuminated address. Button  are used to change the value of individual items displayed. Button  is used to select an item. After entering four digital code, confirm the setting by pressing the lock release  button and exit the installer settings.  By pressing the button



Fig. 13. Entering the installer settings mode

The installer menu contains an auxiliary list of codes with descriptions that can be activated by pressing the talk button. The scroll down and scroll up buttons   are used to scroll through the list.

The table below presents a list of commands with an explanation of their functionality.



Fig. 14. Displaying the code list

Address	Description in monitor	Function
2419	Reset To Default	factory reset
3006 - 3600	Monitor Time	set the monitor's automatic shutdown time
8000 - 8003	Slave Address	slave monitor address settings
8006 - 8007	On/Off Panel	external cassette preview settings for multiple monitors
8004 - 8005	Guard Unit	porter console function
8010 - 8011	Unlock Mode	bolt release mode settings
8401 - 8499	Unlock Time	bolt release time settings
8008 - 8009	Date Mode	date display format settings
8012 - 8013	Time Mode	time display format settings
8016 - 8017	Bypass Set	function inactive
8018 - 8020	Video Format	video standard settings
9101 - 9104	DS Quantity	number of external cassettes supported
9200 - 9216	Cam Quantity	number of external cameras supported

Table 1. List of commands in installer mode

### 6.1. ADVANCED MONITOR SETTINGS

To activate the advanced settings window, move one DIP switch (from the range of 1-5), remembering to maintain the appropriate address of the premises. The monitor will launch a panel on which the address table and the currently set monitor address will appear.

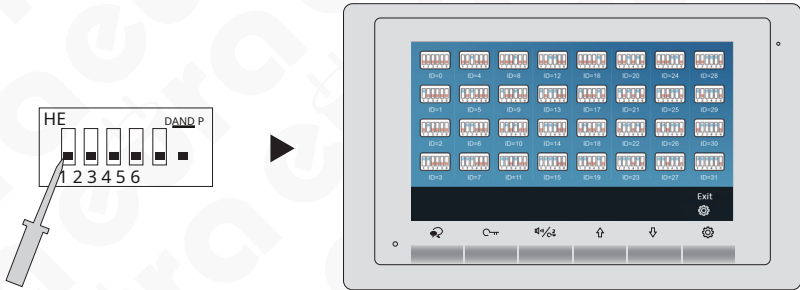


Fig. 15. Advanced settings panel

### 6.1.1 SLAVE MONITOR ADDRESS SETTINGS

It is possible to connect up to 4 monitors within one premises – one master and 3 slaves. To do this, enter the appropriate command in the installer settings:

8000 – Master monitor 8001 –  
Slave monitor 1 8002 – Slave  
monitor 2 8003 – Slave  
monitor 3

### 6.1.2. EXTERNAL BOX VIEWING SETTINGS FOR MULTIPLE MONITORS

In the default mode, during a call, the chime will sound simultaneously on the master monitor and all slave monitors, while the camera preview will be displayed only on the master monitor. To change this function, enabling the display of the preview during a camera call also on individual slave monitors - in the installer settings, enter command 8006.



Fig. 16. The function of displaying the preview from the external cassette simultaneously on several monitors

### 6.1.3 SETTING UP THE GUARDIAN CONSOLE

To do this, enter the command 8005 in the installer settings, activating the console functions in the monitor.

\* Function used in extensive multi-family systems.

## 6.2. DATE AND TIME DISPLAY FORMAT SETTINGS

It is possible to modify the format in which the date and time are displayed. Below are the codes and their corresponding settings.

8008 – date format - month/day/year

8009 – date format - day/month/year

8012 – time format – 12-hour

8013 – time format – 24 hour

\* Feature available with VXA-39A5 v.2 module

## 6.3. SETTING THE PARAMETERS FOR THE ELECTROMAGNETIC GLASS

To modify the bolt release mode settings, enter code 8010 for standard bolts or 8011 for reversible bolts in the installer settings.

Functions from the 8401 - 8499 range are responsible for setting the activation time of the electromagnetic lock (1 ~ 99 s respectively).

### 6.4. USER CODE SETTINGS

It is possible to configure 32 monitors within the Eura 2 Easy system. Each device should be assigned an address 0~31. This is ensured by the appropriate setting of the DIP switches.

Switches from the range 1-5 are used to set the addressing, switch 6 is used to determine whether the monitor is at the beginning or at the end of the connection system. Monitors located in the same premises should have the same address - additionally, the monitor operating mode should be set on the monitor (master or slave, see point 6.1.2).

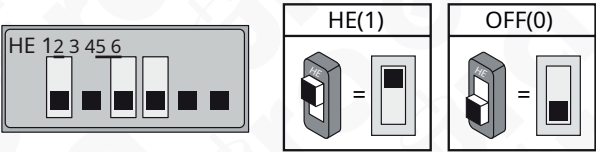


Fig. 17. Switch in the ON and OFF positions

System switches	Setting	System switches	Setting
	Any monitor		Last monitor

Table 2. DIP switch bit 6 settings

System switches	Code User	System switches	Code User	System switches	Code User
	Code=1		Code=12		Code=23
	Code=2		Code=13		Code=24
	Code=3		Code=14		Code=25
	Code=4		Code=15		Code=26
	Code=5		Code=16		Code=27
	Code=6		Code=17		Code=28
	Code=7		Code=18		Code=29
	Code=8		Code=19		Code=30
	Code=9		Code=20		Code=31
	Code=10		Code=21		Code=0
	Code=11		Code=22		

Table 3. DIP switch bits 1-5 settings

7. EXPANDING THE SET

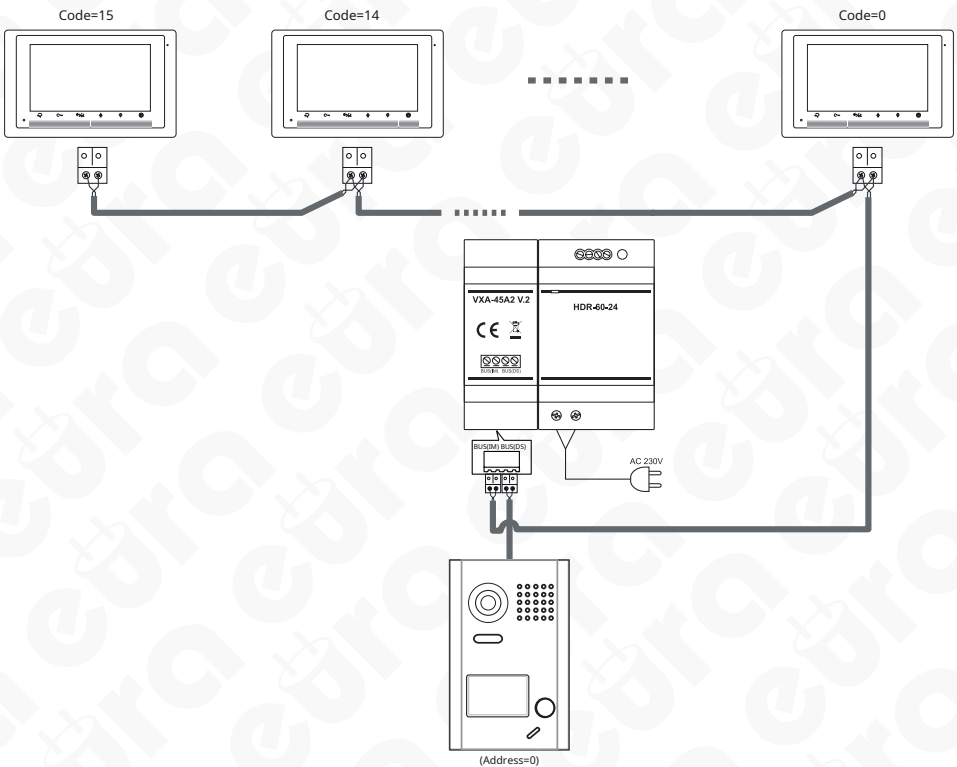


Fig. 18. Expanding the set with additional monitors

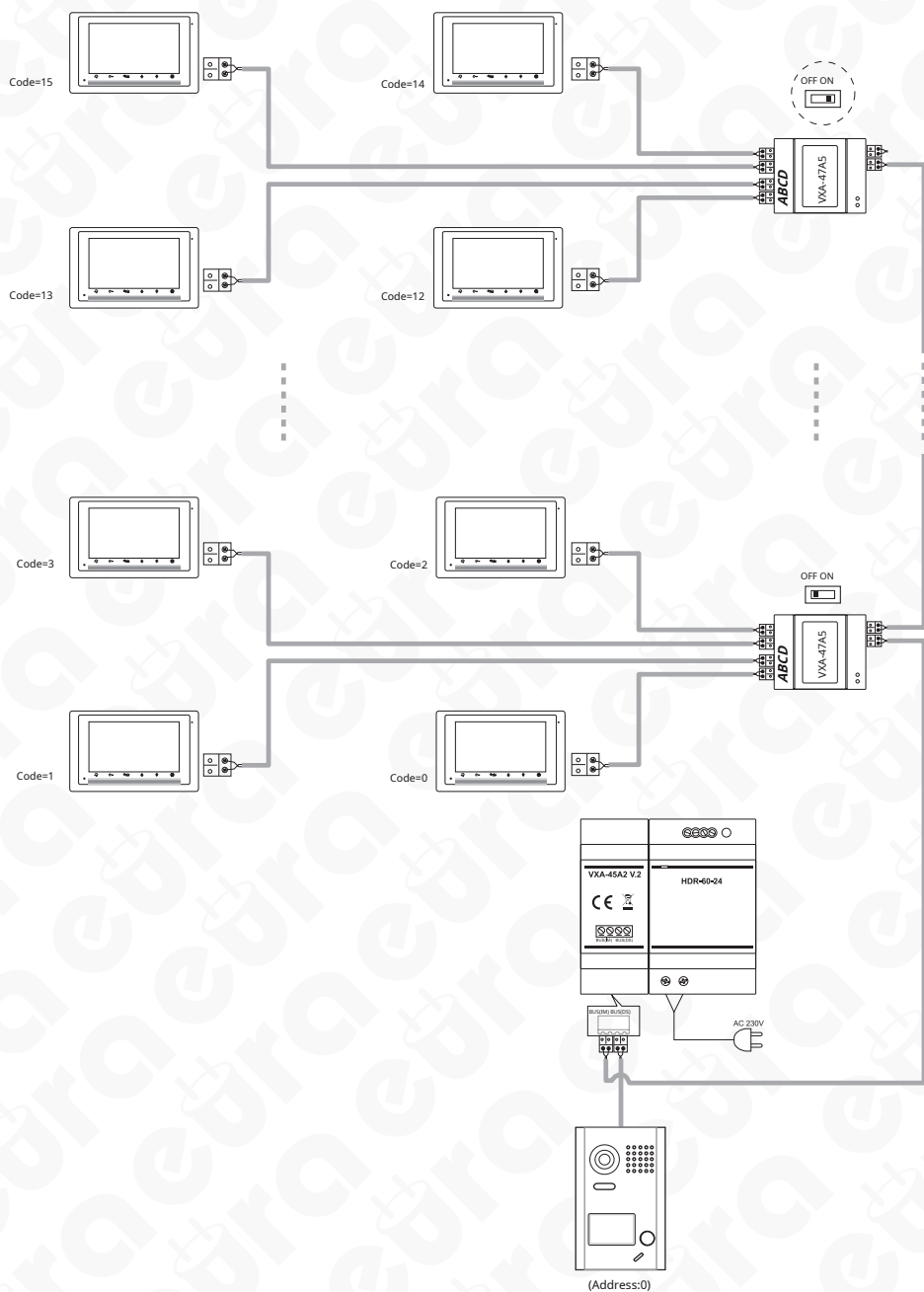


Fig. 19. Expanding the set with additional monitors using the VXA-47A5 signal distributor



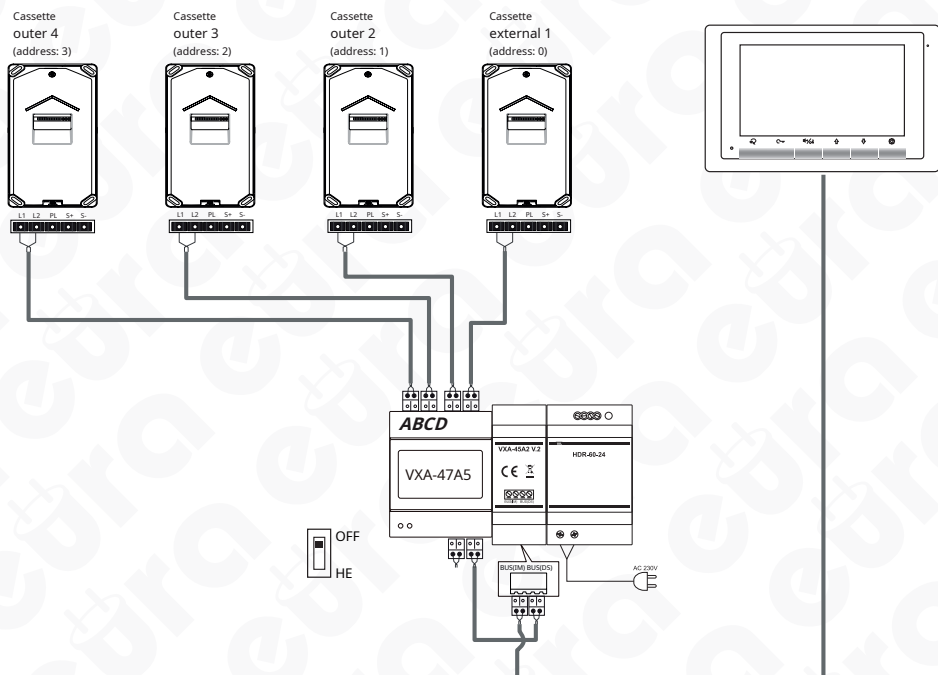


Fig. 20. Scheme of system expansion with additional external cassettes

## 8. TECHNICAL SPECIFICATION

Supply voltage	24V DC
Video signal parameters	1Vp-p 75 Ohm CCIR
Number of connecting wires	2, non-polarized
Number of inputs supported	2
Intercom	Yes
Monitor power consumption - standby / operation	0.16W / 5.76W
Monitor screen size	7"
Screen type	Color TFT-LCD
Screen resolution	800 × 480 pixels
Number of gong melodies	12
Handsfree	Yes
Menu language	Polish
Monitor operating temperature range	+10°C ~ +40°C
Monitor dimensions (H x W x D)	140 x 220 x 17.5 mm
Monitor net weight	340g

# WARRANTY CARD

product name: **2-WIRE VIDEO DOOR PHONE  
MONITOR**

model: **VDA-49A5 v.2**

date of sale .....

point of sale stamp and seller's signature

## GENERAL TERMS AND CONDITIONS FOR WARRANTY REPAIRS

1. Eura-Tech Sp. z o.o. with its registered office in Węłhowo at ul. Przemysłowa 35A (hereinafter referred to as the "Guarantor"), guarantees the proper operation of the device indicated in the Warranty (hereinafter referred to as the "Product").
2. The warranty is granted for a period of 24 months, provided that the Product is used in accordance with the technical and operational conditions described in the user manual and accepted standards. The warranty is valid in the territory of the Republic of Poland. For selected products, e.g. carbon monoxide detectors, the warranty period may be longer, which is always specified with the product itself.
3. The rights and obligations of the Guarantor and the Purchaser of the Product are governed by the provisions included in this Guarantee, which the Purchaser should familiarize themselves with before purchasing. The purchase of the Product is tantamount to acceptance of the terms of this Guarantee.
4. The date from which the Warranty period is valid is the date of issue of the sales document recorded in the Warranty Card and the sales document. Defects revealed during the Warranty period will be removed free of charge by the Central Service of Eura-Tech Sp. z o.o. (hereinafter referred to as the "Service").
5. The document confirming the conclusion of the above agreement and thus entitling you to pursue your rights is a correctly completed Warranty Card together with a document confirming the purchase (receipt, VAT invoice). Any changes (smudges, erasures, cross-outs, corrections, etc.) in the Warranty Card invalidate it.
6. In the case of Products without Warranty Cards (e.g. wireless bells, gongs, signaling devices, detectors and others), the document confirming the conclusion of the contract is the sales document (receipt, VAT invoice).
7. The warranty repair does not cover the activities specified in the Operating Instructions, which the Purchaser is obliged to perform on his own and at his own expense (e.g. installation, configuration, optimal protection against external conditions, maintenance, possible dismantling, etc.).
8. The warranty does not cover:
  - accessories/consumables such as: frames and mounting screws, cables, proximity cards, power supplies with power cables, batteries and accumulators or other elements that are additionally attached to the Products - due to their nature, they have an operational lifespan,
  - mechanical, electrical, chemical and thermal damage or intentional damage to the Product and the defects caused by them,
  - damage and defects resulting from improper use or use inconsistent with the Instructions for Use, user negligence, improper storage or maintenance of the Product, as well as use of the Product contrary to safety regulations and contrary to its intended use,
  - damage to the Product that was not properly secured during transport to the Service (e.g. no transport packaging, failure to wrap the Product properly in protective foil, immobilization of the Product in the packaging, etc.),
  - damage to the Product for which the Purchaser has lost the Warranty Card,
  - damage caused by fire, flood, lightning strike (including indirect lightning), or other natural disasters, unforeseen accidents, liquid flooding, overvoltage in the electrical network, connection to the electrical network in a manner inconsistent with the Operating Instructions,
  - Products that have been modified, changed in design, repaired by breaking the warranty seal or in any other way.
9. The Guarantor provides free spare parts and labor, in accordance with the terms and conditions set out in this Warranty, during the Warranty period specified on the last pages of the User Manual in the "Warranty Terms" section. The Warranty covers only and exclusively Product failures caused by defective parts and/or manufacturing defects.
10. A complaint will only be considered if the Product in question is delivered to the Service together with:
  - Warranty Card (except for devices listed in point 6),
  - a correctly completed Repair Report Form
  - proof of purchase including the date and place of sale.
11. Opening the device without the express consent of the Service, performing any repairs on your own or in an unauthorized service by unauthorized persons will be the basis for voiding the Warranty.
12. The Buyer is obliged to deliver the damaged Product to the point of sale or directly to the Service. If the complaint is considered justified by the Service, the Product will be sent back to the Buyer after being repaired at the Guarantor's expense, using the courier services with which the Guarantor currently has cooperation (GLS).
13. Delivery of a damaged Product by any forwarding agent at the Guarantor's expense, without prior arrangement with the Service, will result in refusal to accept the package.
14. Any defects or damages to the Product revealed and reported during the Warranty period will be removed free of charge within 14 calendar days. In justified cases, this period may be extended, in which case the Buyer will be informed about the approximate repair time. The repair period begins on the first business day following the day the Product is delivered to the Service.
15. The defective Product or its parts that are replaced become the property of the Service.
16. Before starting any repair, the Service will always inspect and assess the degree of damage to the Product being complained about. If it is found that the Product:
  - is in working order,
  - was installed and connected contrary to the recommendations contained in the Operating Instructions,
  - it was damaged clearly due to the fault of the Buyer,
  - has a broken seal,
  - meets the conditions specified in point 8,then the Service treats such a complaint as unjustified and may charge the Buyer with the costs of transport and diagnosis of the device, in accordance with the Price List for Paid Repair Services applicable at the Service.
17. The Buyer has the right to exchange the Product for another one with the same or similar technical and operational parameters if:
  - during the Warranty period, the Service will carry out 3 repairs, and the Product will still exhibit defects that prevent it from being used as intended,
  - The Service considers that the removal of the defect is impossible or within the time specified in point 14,
  - repair may result in excessive costs for the Service.
18. In extreme cases, after prior consultation with the Buyer, the Service may:
  - extend the repair period for the Product if the required repairs cannot be performed due to unforeseen circumstances, such as: difficulties related to importing the device and/or spare parts, legal regulations preventing the performance of repairs, etc.,
  - decide on the refund in accordance with and on the basis of the price on the purchase invoice, if it is not possible to exchange the Product for another one.
19. Neither the Guarantor nor the Service shall be liable for damage to other devices resulting from a failure of the Product.
20. The Buyer has no right to claim reimbursement of lost profits due to the failure of the Product.
21. Failure to collect the repaired Product after 4 weeks from the repair deadline specified in point 14 will be treated as a free surrender of the Product to the Service. The Service may donate the Product to charity or use parts of it for the needs of the Service.
22. If you suspect that the shipment has been tampered with or that the Product being shipped has been damaged during transport, please follow the procedure below:
  - after receiving the shipment, always check the condition of the packaging in the presence of the forwarding employee (the shipment should be sealed with tape and/or the Service stamp, if it is not or is tampered with in any way, it means that the shipment was opened by unauthorized persons),
  - each time the contents of the shipment should be unpacked and checked in the presence of a forwarding employee, and if any damage to the contents of the package or any shortages are found, an appropriate report should be drawn up together.
23. The Product Warranty does not exclude or limit the buyer's rights resulting from the non-conformity of the goods with the contract.

Central Service Eura-Tech Sp. z o.o.  
Przemysłowa 35a  
84-200 Węłhowo  
Mon. - Fri. 08:00 - 17:00 e  
mail: Serwis@eura-tech.eu



Information on where to collect used electrical and electronic equipment can be found on the website of the recovery organization  
<http://www.elektroeko.pl>

BDO registration number 000015700



## **EURATECH Sp. z o. o.**

ul. Przemysłowa 35A, 84-200 Wejherowo  
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The EU declaration of conformity for this device can be found at <http://www.eura-tech.eu>