adomophone



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1. Introduction

DOMOPHONE is the first intercom on the market that was designed to work with mobile devices, such as smartphones or tablets. This allows receiving calls in your home network and beyond using the Internet. It supports video as well as audio calls, and allows controlling the electric lock at the entrance to open and close the gate.

2. Terms of Use

Before installing and using the intercom, please read this manual.

Electrical/network installation should be carried out by an authorized person, and particularly, it should not be exposed to lightning.

To carry out power, control and network installation, use gel-coated cables.

Intercom components must be connected with the power supply disconnected from the mains.

- 3. Components
 - DOMOPHONE a)
 - b) Power supply DC 15V or PoE 48V
 - Patchcord C)
 - d) Additional
 - patchcord^{*1)}
 - Adapter DC *2) e)
 - f) Allen key
 - Warranty Card g)
 - *1) Available as a set with power supply PoE 48V
 - *2) Available as a set with power supply DC 15V



- 4. Intercom description
 - a) Camera
 - b) Lighting
 - c) Speaker
 - d) Microphone
 - e) Call button
 - f) Mounting screws



- g) External housing
- h) Internal housing
- i) Connectors
- j) Ethernet Port RJ-45 with PoE support
- k) WiFi antenna connector (RP-SMA female)
- I) Angle regulator for the camera lens



5. Removing the housing

To remove the housing, unscrew the four mounting screws (a,b,c,d) using the Allen key provided



6. First connection to a home network

To make the installation process simpler, it is recommended to run initial device configuration prior to its installation. To do this, connect your device to your home network by following these steps:

Sets with a **<u>PoE power supply</u>**:

- a) Remove the external housing,
- b) Use the patchcord provided to connect the LAN port (Ethernet) of the intercom to the port marked PoE in your PoE power supply,
- c) Using the provided patchcord, connect the LAN port in your PoE power supply with the LAN port of your home network switch, or directly to your computer's LAN port
- d) Connect your PoE power supply to the mains



Sets with a 15V power supply:

- a) Remove the external housing,
- b) Connect the 15V power supply to contacts 1 and 2. In case of power supplies with a DC end, use the adapter provided,
- c) Using the provided patchcord, connect your LAN port (Ethernet) in your intercom to your home LAN switch, or directly to your computer's LAN port,
- d) Connect the DC 15V power supply to the mains



The device is ready for work after around 30 seconds after connecting the power supply.

7. Initial device configuration

DOMOPHONE has been equipped with a convenient admin panel, which allows you to configure the device via a web browser. Once connected to your home network, the unit becomes available by default under the IP address 192.168.10.39. Should the computer you use to run the intercom configuration work in another subnet than your default home network, then you should temporarily change its IP address. In order to start the intercom configuration, follow these steps:

- a) Start a web browser,
- b) In the address bar, enter the address: http://192.168.10.39,
- c) Log in by entering your login: admin and the password: domophone,

h	1		
	Wymagane uwierzytelnienie	22	
	Serwer http://192.168.10.39 hasła. Komunikat serwera:	1:80 wymaga nazwy użytkownika i DOMOPHONE.	
	Nazwa użytkownika:	admin	
	Hasło:	*****	
		Zaloguj się Anuluj	
	C		

- d) Go to the System tab, and then change the password to your own,
- e) Log in again with your new password,



- f) Go to the LAN tab,
- g) Enter the IP address, under which the intercom will be available in your home network, the mask, the Internet gateway and the DNS server. After changing the intercom's IP address, enter the new address in the web browser's address bar. If the new address is located in another subnet, remember to change your computer's network settings,



 h) If the device connects with your home network through WiFi, go to the WiFi tab, and then enter the access settings to your WiFi network. <u>If</u> <u>WiFi is not used,</u> <u>select the "Inactive"</u> <u>mode and click</u> <u>Save</u>,



- i) Go back to the System tab, and check the available updates by clicking the "Check for Updates" button. If an update is available, click "Update",
- j) Connect to the device using the customer app,

 ➢ DOMOPHONE-PANEL ← → C △ 192.10 	× 68.10.39/?section=system&lng=en				☆ © :
adomo	phone	DOMOPHONE LAN	WiFi S	YSTEM RECORDS	LOGOUT
DOMOPHONE	SYSTEM				
LAN				Help	?
WiFi	Old password:			In order to change acce	ss password, 🔺
SYSTEM Password:				please enter the old pas the new one and confin	sword, then mit.
RECORDS	confirmation:			DOMOPHONE's softwar automatically upgraded "Check for Updates" but	e can be with the tton.
	Change password >			Date – date and time is with the Internet server	synchronized real time
				Version – Version of t	he installed
	Check for updates	>>>		Serial – DOMOPHONE S	Serial Number

- 8. Installing customer app for iOS
 - a) Open Apple AppStore
 - b) Search the DOMOPHONE application
 - c) Select INSTALL APP



- d) Open Settings
- e) Select the DOMOPHONE app
- f) Enter the IP address of the intercom and authorization key, which is available in the configuration panel in the DOMOPHONE tab*1)
- g) Start application



Authorization Key

This Key enables author devices trying to conne

rization of the oct with the

WiFi

SYSTEM

RECORDS

Reset Key >

- 9. Installing customer app for Android
 - a) Start Google Play
 - b) Search the DOMOPHONE app
 - c) Select INSTALL
- 8:43 8:45 Q, Q, 🗊 Aplikacje (😰 domophone 👔 Aplikacje DOMOPHONE APLIKACJE DOMOPHONE а **** 1 phone 6 n Warto zobacz... Gry 0 **** 3 Pobrane: 100+ 2012-12-10 314 KB Nasz wybór SONY OCENA I OPINIA **** OPIS Aplikacja przeznaczona do łączenia się z Ceneo domofonem Umożliwia: - odbieranie wywołań 🕆 nil 💷 🖸 8:46 🗈 🖗 🍈 D 0 4 🗟 📶 🚾 🖸 8:46 D 0 A 🗟 .tt 💌 🖾 8:47 IP Adres IP domofonu Klucz Klucz autoryzacji domophone d Ustawienia Brak połączenia - -🕋 DOMOPHONE-PANEL 🛛 🗙 💭 ← → C 192.168.10.39/?lng=en ☆ 🔘 🗉 __ 313 == _ 4= | | | | | ___ domophone LAN WiFi SYSTEM RECORDS LOGOUT DOMOPHONE DOMOPHONE LAN

AUTHORIZATION KEY: 0F6F-9C37-76CA-51C3

Key enables authorization of the ices trying to connect with the

- d) Start the DOMOPHONE app
- e) Open Settings
- f) Enter the IP address of the intercom and authorization key, which is available in the configuration panel in the DOMOPHONE tab *1)
- g) Close Settings

WIFI SYSTEM

RECORDS

- 10. Setting the angle of the camera lens
 - a) Loosen the screw that fixes the adjustment mechanism
 - b) Move the camera tilt
 - c) Tighten the screw that fixes the adjustment mechanism



11. Installation

- a) Make a mounting hole at around ~150/160 cm high, with the dimensions 98x172x60mm (width x height x depth)
- b) Lead connection wires (power / LAN / control) through the bottom of the mounting hole.
- c) When connecting with your home network through WiFi, lead the external antenna cable through the bottom of the mounting hole, or using the hole located at the rear of the mounting hole



- d) Put the external housing in the mounting hole, so that the edges of the housing are aligned with the facade,
- e) Level the housing, and then lock its position using wedges



 f) In order to mount the housing, use low-pressure foam or plaster. Keep in mind that the facade should be secured with paper tape before mounting the housing



- g) After the foam/plaster has dried, remove the wedges and excess foam.
- h) Remove the tape



- i) Connect the cables
- j) Install the intercom with Allen screws



12. Intercom handling



Start/End video preview

- a) Select the icon of video preview. Starting the video preview will not automatically start an audio call.
- b) To end video preview, select the icon of video preview again. Ending the preview will end an audio call as well.

Connected

❷ ≵ 26% 🗊

💵... T-Mobile.pl 奈 14:54

Starting/Ending audio/video calls

- a) Select the call icon. Starting a call will automatically start video preview
- b) To end the call, select the call icon again. Ending the call ends the video preview as well.



13. Technical parameters

Camera	Color
Angle of view vertical/horizontal	45°/50°
Adjusting the angle of the lens	30°/30°
vertical/horizontal	
Heating to prevent frost on the glass	Yes
Illuminated at night	Yes
Automatically adjusts brightness to the time	Yes
of the day	
Highlighted call button	Yes
Auto on/off of the call button depending on	Yes
the time of the day	
LAN port	10/100 Mbps
WiFi networks ***)	2.4 GHz
	IEEE 802.11 b/g
	WEP/WPA encryption
PoE	IEEE 802.3af 48V
Power supply	DC 15V
Online software updates	Yes
Recording until call received	Yes
Maximum number of recordings	100
Maximum number of images	500
Customer app for Windows	Yes
Customer app for iOS	Yes
Customer app for Android	Yes
Number of available calling sounds	18
Ability to use your own sound for audio calls	Yes
Unit control from outside the home network	Yes*
Audio/video calls from outside the home	Yes**
network	
Required Internet access	Yes
Maximum load on the control relay for the	48VDC/24VAC 1,6A
wicket lock	
Maximum load on the control relay for the	48VDC/24VAC 1,6A
gate lock	
Power supply for the wicket lock	12V
Size of recessed housing width/height/depth	94x168x50mm
Size of the face width/height	112x186mm
Recommended size of the mounting hole	~ 98x172x60mm
width/height/depth	
Material the face is made of	Brushed Aluminum
Housing	Flush-mounted
Number of call buttons	1
Color schemed for the face of the intercom	Stainless steel/Light brown/Gold
Working temperature	-20°C ~ +50°C

*) Customer unit must have access to the Internet with at least 8Kbps **) Customer unit must have access to the Internet with at least 128Kbps

***) Wi-Fi details

Transmit Power	802.11b/g: 50 mW (+17 dBm) typical
Frequency	2.400 - 2.4897 GHz
Range	
Operating	1-11 for North America and others, 1-13 for Europe and others
Channels	
Channels	This radio supports 802.11d. This radio will associate with any 802.11d-compliant
	AP, regardless of what channel is in use.
RX Sensitivity	-86 dBm typical @ 11 Mbps
	-82 dBm @ 6 Mbps, -69 dBm @ 54 Mbps
Data Rates	802.11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps
802.11b	1, 2, 5.5, 11 Mbps
EVM	802.11g: -29 dB typical (13%)
	802.11b: -28 dB typical (16%)

14. Factory settings

The below table includes the factory settings parameters. Should you need to restore them, proceed as follows:

- a) Disconnect power,
- b) Press the call button,
- c) While holding the call button, reconnect the power, and then wait until the intercom generates a short continuous sound, which means that factory settings have been restored.
- d) Release the call button

LAN	
IP	192.168.10.39
Netmask	255.255.255.0
Gate	192.168.10.1
DHCP Client	Disabled
WiFi	
SSID	DOMOPHONE
Encryption	None
Authorization	
Login:	admin
Password:	domophone

15. Wiring diagram



Only use <u>one</u> power source, DC 15V connected to contacts 1 and 2 <u>or</u> 48V power supply connected through PoE.

16. Example of connecting the device in Ethernet

- Connecting with your home network through an ETHERNET + PoE cable
- Electric lock with no power
- No control over the gate



- 17. Example of connecting the device in WiFi
 - Connection to your home network via WiFi
 - Electric lock with no power
 - No control over the gate



18. WEBAPI (for Software Developers)

WEB API has been recently added to the DOMOPHONE, and it enables its operation through third parties' applications. WEB API also allows to determine server activities as it will be notified about such actions as e.g. gate or main gateway being open. Please go to ftp://ftp.acsoftware.pl/DOMOPHONE/domophone webapi samples.tgz for an exemplar implementation in PHP language.