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ZAMEL sp. z o.o.

zamel

ul. Zielona 27, 43-200 Pszczyna, Poland
 Tel. +48 (32) 210 46 65, Fax +48 (32) 210 80 04
www.zamel.com, e-mail: export@zamel.pl

DESCRIPTION

Wireless WI-FI camera equipped with a drive (PTZ) that enables its rotation (355 degrees horizontally and 90 degrees vertically). A 3MP sensor provides clear video. The video is saved to a memory card (microSD) installed in the camera. Internet-based remote communication is provided via the NaviHome or TUYA application installed on any smartphone or tablet based on Android or iOS. It allows the current camera image and recorded footage to be viewed, as well as the camera rotation to be controlled. The camera is equipped with nighttime illumination, both with ordinary and infrared LEDs (possibility of switching between one type of illumination and the other). The camera is also equipped with a speaker and microphone for voice communication (listening to the sounds detected by the device, as well as sending voice messages played by the camera speaker).

TECHNICAL DATA

Resolution	3MP (2048 x 1536 px)
Focal length of the lens	3,6 mm
Video compression format	H.264/H.265
Wi-Fi	Wi-Fi: 2.4 GHz (IEEE802.11 b/g/n)
Transmission power	ERP< 20mW
Wired connection	RJ-45 LAN cable
PTZ drive	90° vertically, 355° horizontally
Nighttime illumination with infrared LEDs	YES
Nighttime illumination with light-emitting diodes	YES
Memory card	microSD (max 128 GB)
Temperature operating range	-10 ÷ 60 °C
Enclosure IP rating	IP65
Power supply	12 V / 1 A
Power consumption at rest	~ 2 W
Camera weight	0,34 kg
Dimensions (with antennas extended)	82 x 230 x 119 mm

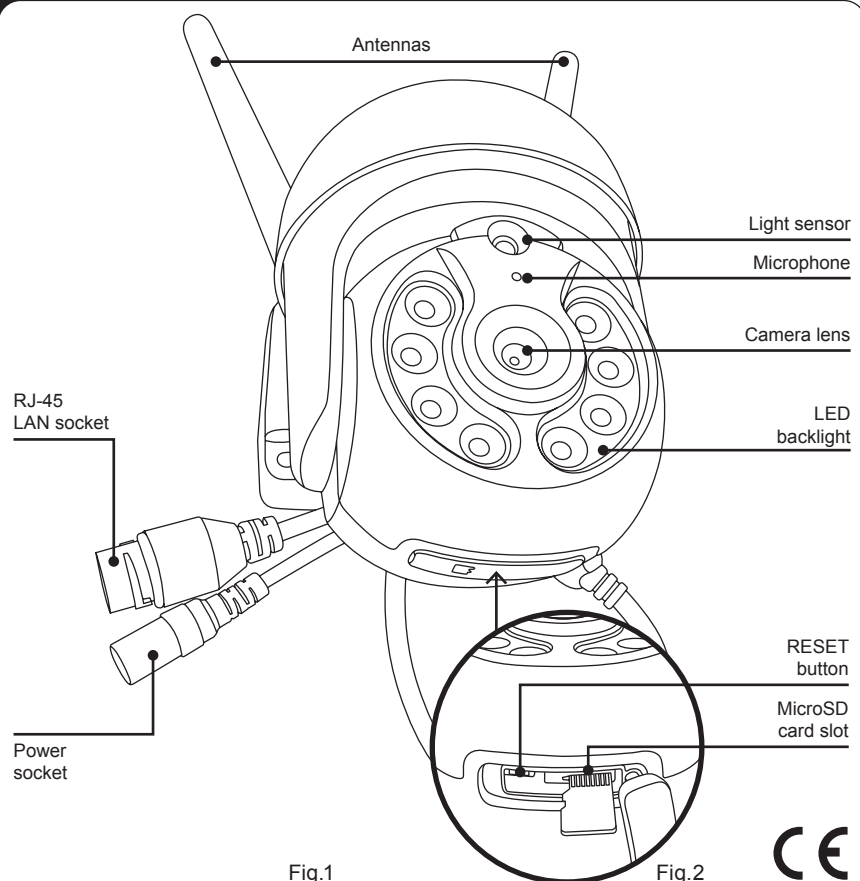
FEATURES

- 3 MP camera resolution.
- Hermetically sealed IP65 enclosure (weather resistant)
- Built-in drive (enables rotating the camera remotely).
- Wi-Fi wireless connection (no wiring required).
- Remote viewing on the phone with the NaviHome or TUYA application (iOS and ANDROID).
- Possibility of enabling notification messages on the phone when motion is detected.
- Saving to a microSD card continuously or only when motion is detected.
- Nighttime illumination LEDs (both ordinary and infrared LEDs).
- Voice communication (loudspeaker and microphone built into the camera).
- Motion tracking function (the camera follows a moving object).



Do not dispose of this device in the trash can with other waste! In order to avoid harmful effects on the environment and human health, store used device in specially designated places. Household electronic waste can be returned for free and in any amount to the collection point established for this purpose, and also to the shop when buying new equipment.

APPEARANCE



INSTALLATION

- Mount the camera on the wall using the supplied bolts and screws and connect the power cord to the supplied power supply unit (12V DC/1 A). After connecting the power supply unit, the camera will turn on its LED backlight for a moment, and then you will hear a welcome message. A full rotation of the camera head in all possible directions is then performed to calibrate the camera. After the camera calibrates, it is ready to work.
- Besides using Wi-Fi, the camera can also be connected to a router with Internet access using LAN cable (RJ-45). For wired camera setup, see "Adding a camera in wired mode" in this manual.
- To record images, the camera needs a microSD memory card with a maximum capacity of 128 Gb. The memory card slot is located under the rubber cap at the bottom of the movable camera head (Fig.2). The larger the card size, the longer the recording time. If the card is not installed, the camera will work, it will be possible to view the current video from the camera, but it will not be recorded.

APPLICATION SETUP AND ADDING CAMERA

To operate the camera, user may use one of two kinds of applications. First of them is dedicated for Zamel company products and it's name is NaviHome. And second one is standard TUYA application. One of them must be downloaded and installed on your smartphone or tablet from Google Play (Android) or App Store (iOS).

Logging in to the TUYA application

After installing the application and launching it, the startup screen appears (Fig.3). If you already have an account, just log into it. If you do not have an account, you need to register and create a new account by entering your email address and the verification code sent to it (Fig.4).

Adding the camera in Wi-Fi mode

The basic and most convenient way of communicating with the camera is through Wi-Fi, so there is no need for any other wiring apart from connecting the power supply unit. For this mode to work properly, the camera must be within the Wi-Fi range of the router. To add the camera in Wi-Fi mode, log in to the application and then:

- Click the "+" button in the upper right corner or the ADD DEVICE button (only visible if there are no devices added to the application yet), as shown in Fig.5. Next, select the "Video surveillance" section from the device list on the left, and then in the device list "Wireless camera (Wi-Fi)" - Fig.6.
- Then you will see a message asking you to reset the camera (Fig.7). To do this, remove the rubber cap located at the bottom of the movable camera head and press and hold the RESET button until you hear a message about successful device reset. Wait several seconds until the camera fully launches, which is indicated by a voice message about the readiness for operation.
- After a successful reset, confirm that the sound was heard and then click the NEXT button in the application to go to the next setup window.
- In the next step, select the Wi-Fi network for the camera and enter the password (Fig.8). At the time of setup, the phone must be connected to the same Wi-Fi network.
- Please note that the camera works only with 2.4 GHz Wi-Fi networks, so if you have only the 5 GHz frequency band set on your router, you have to switch it to 2.4 GHz.
- In the next window, there is a QR code (Fig.9), which should be scanned with the camera (bring the phone screen closer to the camera lens at a distance of 15 + 20 cm). When the code is scanned correctly, the camera's voice message confirms it. Then click the "I have heard the sound" button on the application, which will take you to the next window indicating that the camera has been added to the application (Fig. 10). After successfully adding the camera, the confirmation window appears (Fig.11). The camera is now ready for use.

Adding the camera in wired mode

If, for some reason, the user does not want or cannot use Wi-Fi to communicate with the camera, it is also possible to connect the camera to the Internet via wired connection using a LAN cable (RJ-45). **During the camera setup, the smartphone/tablet used to add the camera to the NaviHome or TUYA application must be connected to the same Wi-Fi router, to which the camera is connected.** After logging in to the TUYA application and connecting the camera via network cable to your router, to setup the camera in wired mode, you need to do the following:

- Click the "+" button in the upper right corner or the ADD DEVICE button (only visible if there are no devices added to the



Fig.3

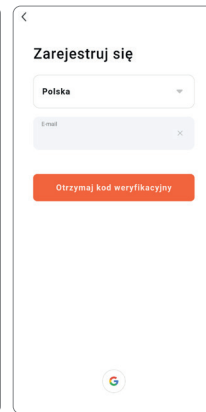


Fig.4

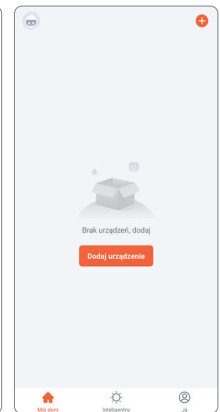


Fig.5

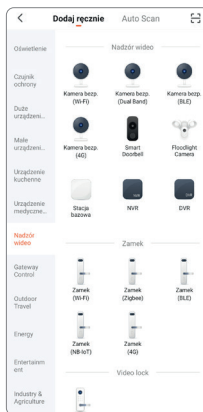


Fig.6

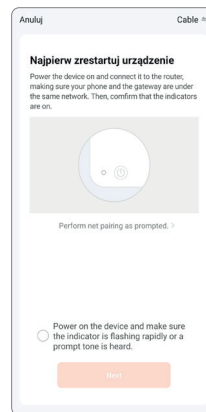


Fig.7

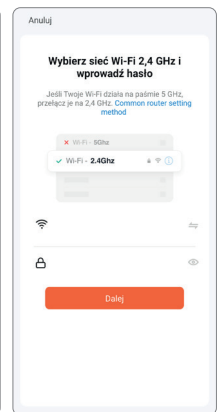


Fig.8

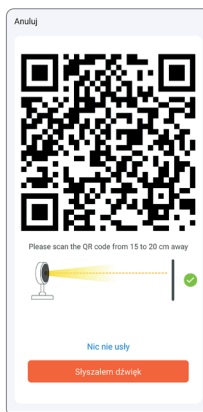


Fig.9

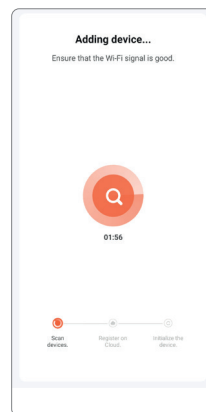


Fig.10



Fig.11

application yet), as shown in Fig.5. Next, select the "Video surveillance" section from the device list on the left, and then in the device list "Wireless camera (Wi-Fi)" - Fig.6.

- Then, in the upper right corner, click on the default "QR Code" setting and, choosing from the drop-down list, change it to the "Cable" setting (Fig.12).
- Then you will see a message asking you to reset the camera (Fig.13). To do this, remove the rubber cap located at the bottom of the movable camera head and press and hold the reset button (Fig.8) until you hear a message about successful device reset. Wait several seconds until the camera fully launches, which is indicated by a voice message about the readiness for operation.
- After a successful reset, confirm that the sound was heard and then click the NEXT button in the application and go to the next setup window.
- The next open window (Fig.14) means searching for a camera in the network, which can take up to 2 minutes and should end with a message that the camera has been added correctly. The camera is now ready for use.

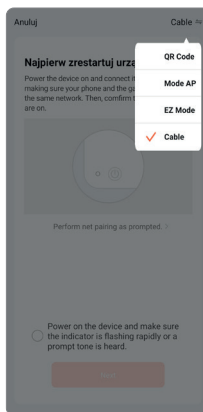


Fig.12

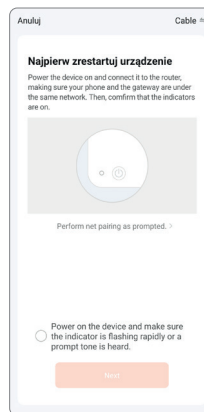


Fig.13

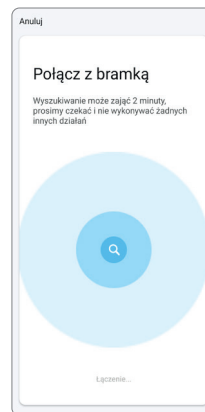


Fig.14

BASIC FUNCTIONS AND SETTINGS

After opening the TUYA application and clicking on the camera icon installed in it, you can see the main window with the current video from the camera as well as function and setting buttons (Fig.15). After clicking in roll up menu button (6) "Features" window will open that contains shortcuts with most important camera functions (Fig.16).



Fig.15

In "Features" window user can find:

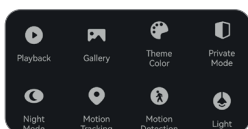


Fig.16

› **Playback** – (Fig.17) allows playing back video recordings saved on a memory card inserted in the camera. Recordings are marked in blue on the timeline. The recording range depends on the capacity of the memory card and the camera settings. When the card is full, old recordings are overwritten with new ones

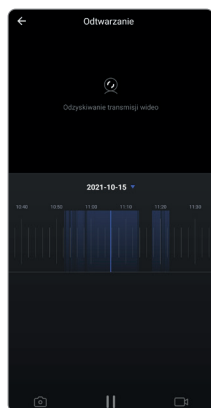


Fig.17

- › **Gallery** - shows the screenshots saved on the phone taken with the key (2)
- › **Theme Colour** - changing colour theme (bright/dark)
- › **Private Mode** - sleep mode for camera
- › **Night Mode** - Sets the mode in which the nighttime illumination works (Fig.18). The camera can be illuminated in two ways: with white light diodes (Colour Mode) or with infrared LEDs (IR Mode). Smart Mode is the default setting (the camera decides itself which illumination mode to choose, depending on lighting conditions and the distance from the observed person or object). The advantage of illumination with the white diodes is that it provides colour video, but the illumination range is smaller. The advantage of infrared LED illumination is greater range and discretion (the observed person does not see that he is illuminated and observed), but the video is black and white.

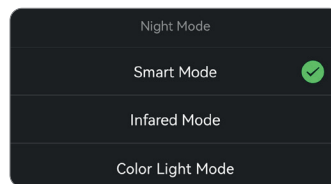


Fig. 18

- › **Motion Tracking** – when enabled, the camera will automatically follow the detected moving object until it disappears from its field of view. This function is disabled by default.
- › **Motion detection** - enables or disables the function of sending messages indicating motion detection. When this option is enabled, when motion is detected, the application sends information to the phone's notification bar about the motion detected by the camera (Fig.19).

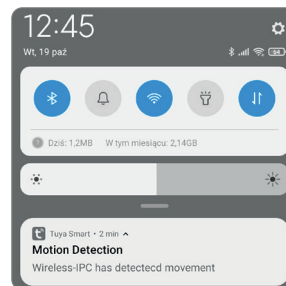


Fig.19

- › **Light** – ON or OFF of the white LED light and possibility of using schedule when this light will ON and OFF automatically.

SETTINGS SUBMENU

By clicking icone (1) in upper right corner (marked by 3 dots) user is getting access to additional camera settings. Some of this settings is mirrored in "Features" on the main screen that is described in previous acapit but some settings are available only in this submenu:

› **Detection Alarm Settings** - motion detection settings Fig. 20.

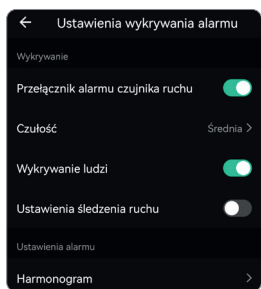


Fig. 20

- › **Motion Detection Alarm** - same as Motion Detection in Features on main screen
- › **Alarm Sensivity Level** - 3 level sensitivity to choose of motion detection
- › **Human Body Filtering** - when this function is enabled, the camera will only react to human movement and will not react to, for example, a passing car. This function is enabled by default, so if you want the camera to react to any movement, not just a moving person, disable it.
- › **Motion Tracking** - same as Motion Tracking in Fetures on main screen
- › **Schedule** - allows you to set at what time and on what days the motion detection function is to be active. Adding another schedule allows you to set the time when the motion detection function is enabled or disabled (Fig.21). The example in Fig.22 shows an example of the schedule for enabling motion detection at 8 PM on Fridays, and disabling it at 7 AM on Mondays.

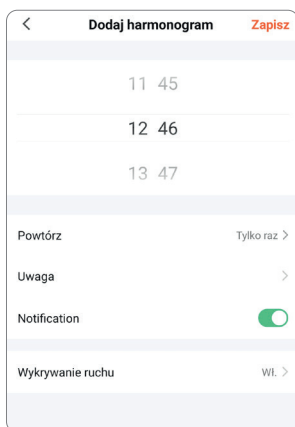


Fig. 21

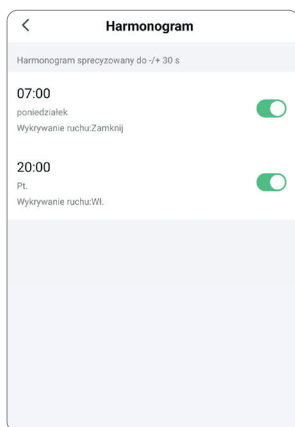


Fig. 22

› **Recording settings**

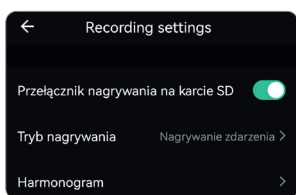


Fig. 23

- › **SD card recording switch** - enables or disables video recording on the microSD card installed in the camera. This function is enabled by default (provided that a memory card is installed in the camera).
- › **Recording Mode** - selection between the Continuous recording function (camera records video all the time) and Event recording function (camera records only when motion is detected). The Event recording function is set by default, so if you need to record continuously, you need to switch this function to Continuous recording mode.
- › **Schedule** - allows you to set at what time and on what days the camera should start and stop video recording on the memory card. Fig.24 shows an example of a schedule setting that activates recording on working days (Monday - Friday) at 7 AM and stops recording at 3 PM.

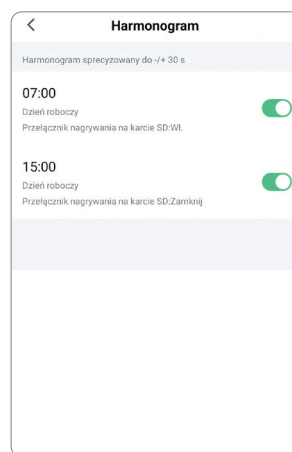


Fig. 24

ADDITIONAL FUNCTIONS

The TUYA application also provides an additional option to enable cloud storage of recorded video recordings, so you can access it from any device even if the camera and memory card are physically damaged. This option is charged extra (as a monthly or annual subscription) to TUYA and is completely independent of Zamel.



NOTE

The device should be connected to a one-phase network in accordance with legally binding standards. The connection method is described in this manual. Any activities related to installation, connection, and adjustment should be performed by qualified electricians who have read this user's manual and familiarised themselves with device functions. Removing the enclosure voids the warranty and poses a risk of electric shock. Before installation, make sure that there is no voltage on connection cables. To install the device, use a cross-head screwdriver with a diameter of 3.5 mm. The proper operation of the device is affected by how the device is transported, stored, and used. It is not advisable to install the device in the following cases: lack of any components, damage to or deformation of the device. If the device operates improperly, please contact the manufacturer.

WARRANTY CARD

There is 24 months guarantee on the product

Salesman stamp and signature, date of sale

1. ZAMEL provides a two-year warranty for its products.
2. The ZAMEL warranty does not cover:
 - a) mechanical defects resulting from transport, loading / unloading or other circumstances;
 - b) defects resulting from incorrect installation or operation of ZAMEL products;
 - c) defects resulting from any changes made by CUSTOMERS or third parties, to products sold or equipment necessary for the correct operation of products sold;
 - d) defects resulting from force majeure or other aleatory events for which ZAMEL is not liable;
 - e) power supply (batteries) to be equipped with a device in the moment of sale (if they appear).
3. All complaints in relation to the warranty must be provided by the CUSTOMER in writing to the retailer after discovering a defect.;
4. ZAMEL will review complaints in accordance with existing regulations.;
5. The way a complaint is settled, e.g. replacement of the product, repair or refund, is left to the discretion of ZAMEL.
6. Guarantee does not exclude, does not limit, nor does it suspend the rights of the PURCHASER resulting from the discrepancy between the goods and the contract.