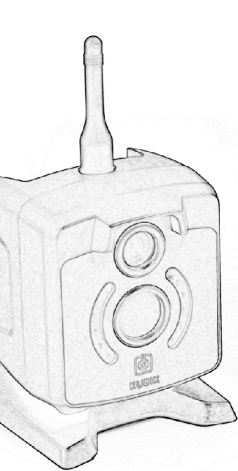




KUBIK

**INSTRUCTION
MANUAL**



GSM Trail Camera «KUBIK»

Thank you for purchasing a portable weatherproof autonomic GSM Trail Camera «KUBIK». We are sure that camera operating will be simple and reliable and will help you to accomplish your tasks. This camera has a wide range of functions which require setting. For simple and reliable usage of the camera we highly recommend that you refer to the instructions in this manual. More detailed information regarding setup and usage of the camera can be found in the knowledge base «KUBIK».



doc.camkubik.com

Trail Camera «KUBIK» can be suitable for accomplishing the following tasks:

- Supervision over the condition of different objects (houses, garages, shops, cottages, offices, motorboats etc.);
- Infrastructure monitoring (bridges, ferry, roads, landfills);
- Animal observation in reserves and hunting areas.

The principle of operation:

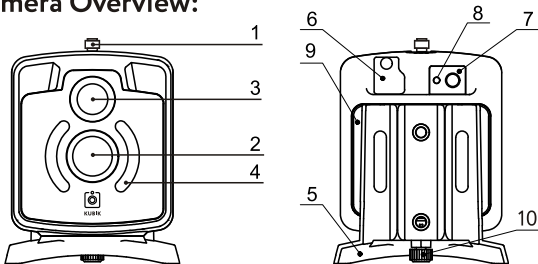
The camera detects any movement within a radius of 20 m with the help of PIR sensor, takes a photograph and sends a message with the attached full-size image per Email, MMS or to cloud storage.

Camera Specifications

Image Sensor Type	Color CMOS
Lens	F=2.0; f=3.6 mm
Detection Range	20 m
Image Resolution	1600x1200 SMTP, FTP, YANDEX.DISK 800x600 SMTP, FTP, YANDEX.DISK 400x300 MMS, TEST PHOTO, SMTP, FTP, YANDEX.DISK
Internal Memory	8 GB
Trigger time	1 second (including automatic exposure)
IR Flash Illumination	10-12 m

Channels	SMS, MMS, SMTP (e-mail), FTP, Yandex Disk
Communication Channels	Bluetooth LE GSM Dual-Band: 900 / 1800 MHz (option) WI FI 802.11 b/g/n (option)
Software	Android 5 and above, iOS 5 and above
SIM Card Format	Standard SIM Card
Power Supply	6 AA or external (9-12 V)
Size	80 x 91 x 69 mm
Weight without power supplies	0.22 kg
Operating/Storage Temperature	-25 - +60°C / -40 - +70°C
Permissible Humidity	5 % - 90 %

Camera Overview:



- 1- GSM-antenna Port
- 2- PIR Motion Detector
- 3- Camera Lens
- 4- Infrared Flash
- 5- Mounting Bracket
- 6- Plug for external power connector
- 7- On/Off Button
- 8- LED indicator of modes of operation
- 9- Battery Compartment Cover
- 10- Fixing Screw for Mounting Bracket

FIRST STEPS

Step 1. GSM Antenna Installation

To simplify the packaging process the antenna is not factory installed. Screw the antenna, included in the delivery set, into the port (1).



! NOTE! To boost the signal use an amplified antenna (provided separately).

Step 2. SIM Card installation

In the camera a standard SIM card (25*15 mm) is used. To install your SIM card, unscrew the fixing screw (10) and detach the mounting bracket (5).

Open the battery compartment cover (9): for this, push gently the latch and pull the cover. Then insert the SIM card into the slot located on the underside of the battery compartment.



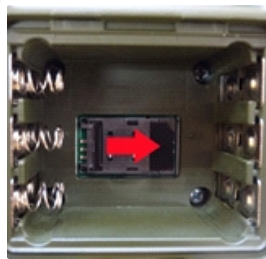
For installation: open the slot, moving it in the direction shown by the arrow.






Insert the SIM card into the slot as shown in the figure.



Close the slot in reverse order.




-  **! NOTE!** SIM card must be installed with the disabled PIN code. To disable the PIN code insert the card into your mobile phone and use its settings.
-  **! NOTE!** To use all the functions of the camera, make sure that the tariff plan of your SIM card enables SMS/MMS and GPRS data transmission.
-  **! NOTE!** Functioning without SIM card is possible. All the functions except for photo transmission over GSM network and SMS notification will be available.

Step 3. Power Supply Installation

Internal Power Source installation

The camera requires 6 AA batteries. To install the batteries open the battery compartment cover (9) and insert the batteries into the compartment.

-  **! NOTE!** We highly recommend that you use lithium batteries because they have larger capacity and are less affected by negative temperature.

Using an External Power Source

External power is supplied through a special connector closed with a protective plug (6). To access the connector unscrew the plug screw. As external power use a 12 V power source. To connect the external power source to the camera use the branded cable (isn't included).

Turning on/off

To turn on the camera press and hold the button (7). Hold the button until the camera produces a single beep and the LED indicator (8) is on for a while. After the indicator is off you can connect the camera over Bluetooth. To check the on state of the camera, briefly press the button (7). If the camera is on, the indicator (8) will blink.

To turn off the camera press and hold the button



! NOTE! After turning off the camera do not extract the batteries or turn off an external power source until the indicator (8) is off.

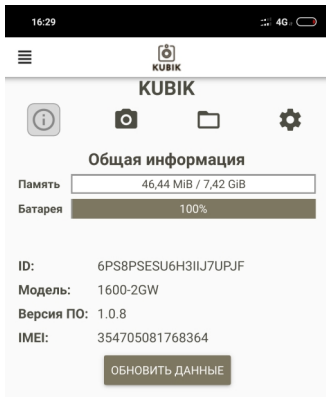
Step 4. Free Mobile Application «KUBIK»

For easier setup we recommend that you install our free mobile application. The App is available on the Apple Store and Google Play.

Step 5. The first connection of the camera to your smartphone (pairing)

Run the previously installed application KUBIK and activate camera search. A list of cameras available for connection will appear on the screen. The default camera name is KUBIK.

Select the camera in the list. If it hasn't been paired with your device before, the menu of pairing Bluetooth devices of the phone will open. Select the camera and enter the password. The default password is 123456. Return to the application window and update the device list. Connect your device to the camera. If the pairing is successful, the "General Information" menu will appear on the screen.



! **! NOTE!** The camera is connected to devices through Bluetooth. Make sure that this transmission channel is enabled on your smartphone.

! **! NOTE!** Reconnection does not require pairing.



! NOTE! We recommend that you change the default password. In case the camera is lost or stolen its using will be impossible without entering the password. Remember that password reset is possible only when contacting the manufacturer with the documents confirming the purchase of the camera.

Make necessary camera settings



General Information Menu

It contains information about memory status, battery condition, serial number, camera model and version of the internal software and IMEI-modem (in case it is installed on your model).



! NOTE! Non-removable 8GB Memory is installed in the camera.

Quick Snapshot Menu

Used to take a picture at the user's command. It allows you to check the performance of the camera and settings correctness.

Photo Archive Menu


Used for viewing photos taken. The photos are sorted by time and date. The menu allows you to upload photos to your smartphone choosing the required resolution.

Settings Menu

It includes a list of different settings (settings list).

Device Settings

Used for changing the camera name and the password.

 ! NOTE! The default camera name is KUBIK, the password is 123456. Change the default password to ensure security.

Shooting Settings

In this submenu you can adjust the image resolution, the rotation angle of the image and compression. Turning on/off infrared illumination, burst mode settings.

PIR Sensor Settings

These settings are used to turn on/off the PIR sensor, set sensor delayed response.

Timers Settings

PIR Sensor On/Off Timer

When the Off timer is activated at the set time, the PIR sensor will turn off. The sensor will be off till the On timer is activated or it is turned on forcedly by a SMS-command or with the help of the mobile application. The On timer activates the PIR sensor.

Camera Shooting Timers

The camera has two timers. With their help the user can program any time for forced shooting. Flexible settings allow you to set any days for shooting and the timers make it possible to take up to two forced shots per day. If the camera is in active state when the timer triggers (triggered with the help of the sensor), the timer activation will be skipped. A picture taken with the help of the shooting timer is marked with a corresponding stamp at the bottom of the picture.

Time Lapse Settings

Time lapse timer allows user to set the shooting interval from 5 minutes to one hour. While this timer is on, all the other timers turn off and the PIR sensor is deactivated. When the Time Lapse mode is on, the camera will send pictures with a frequency, set by the user. Please note that the time required for sending the photo should be added to the time period set by the user. Depending on the quality

of connection, sending can take up to several minutes.



! NOTE! We recommend that you use an external power source in this mode because of the fast battery consumption at high shooting frequency.



Reset All Timers

Use this menu if you need to turn off all the set timers



Sending Settings



GPRS Settings

It is required for configuring camera access to data transmission over the Internet.



! NOTE! Get more specific information about settings data from the operator of the GSM Network in which your SIM card is registered. Depending on the operator, the camera can function without settings parameters.



MMS Settings

It is required for configuring data transmission via MMS



! NOTE! Get more specific information about settings data from the operator of the GSM Network in which your SIM card is registered.

@ SMTP Settings

Simple Mail Transfer Protocol settings. The settings of the SMTP server of your Email are duplicated. Your email login and password will be required. These settings are needed for receiving photos (including those having maximum resolution) via email.



FTP Settings

It is configured if sending images to FTP-server is required.



Yandex Cloud Storage Settings

It is configure if sending images to the cloud storage is required.



Wi-Fi Settings

Enables/disables Wi-Fi on your camera. Use this function to send images via Wi-Fi Network.



! NOTE! The connected Wi-Fi Network must have access to the Internet.



! NOTE! This option is available only for trail cameras KUBIK which support Wi-Fi connection.



List of Mobile Network Operators

It shows the list of available GSM operators the number of cells and RSSI level (Received Signal Strength Indicator).



Time Synchronization

Use this function to set the correct time.



Notifications Settings

Enables/disables SMS notifications about errors and camera activation.



User Settings

Enables to add/remove from one to four users who will be able to receive SMS, MMS and Emails.



! NOTE! The first user has administrator rights and can configure the camera via SMS commands.



System Settings

Use the menu to clean the memory, request the log-file and reset the settings.



Automatic Update

Enables/disables automatic update.



! NOTE! We recommend that you do not disable this function. Update request is sent once a day and the update is performed if available. The update size is extremely small and it does not use a lot of Internet traffic.



! NOTE! If you cannot install the mobile app "KUBIK", you can configure the trail camera via SMS commands. The list of SMS commands can be found in the knowledge base "KUBIK". Configuring via SMS commands is possible only by the user having administrator rights.

STEP 6. Mounting the camera using the standard mounting bracket

Unscrew the fixing screw 10 and detach the bracket. Then attach the bracket to any accessible surface (a tree, wall etc.). After that attach the camera to the bracket using the screw 10.



! NOTE! Mount the camera so that the antenna is perpendicular to the ground. It is possible to mount the camera in inclined position. In this case an external antenna mounted perpendicularly to the ground must be used.



! NOTE! To avoid PIR false alarms try to avoid its exposure to direct sunlight and do not point the camera at heat sources or objects that quickly heats up or objects having high heat capacity.



! NOTE! To successfully send images from the camera via GSM Network, mount the camera in places with a stable signal. If the signal is poor, we recommend that you use amplified antennas. Remember that even using an amplified antenna does not guarantee 100% successful image sending.

STEP 7. Checking the camera setup with “Quick Snapshot”

Make sure that the camera is on, open the mobile app “KUBIK” and open the Quick Snapshot Menu and activate the shooting process. Then you will get the image which will help you understand if all the objects you need are captured.



! NOTE! Remember that the PIR sensor has a certain viewing angle and the detection range within 20 meters. Mounting the camera at a height of more than 2 meters put it at an angle to capture the objects on the ground.



! NOTE! To get started, disconnect the camera (exit the application). If this does not happen, the camera will automatically disconnect after 10 minutes.



! NOTE! For a remote camera control (out of camera Bluetooth range), use SMS commands. The list of SMS commands can be found in the knowledge base “KUBIK”.

Minimal installation completed. Enjoy working with our trail camera!

Warranty Obligations

Thank you for purchasing our product. The manufacturer guarantees reliable camera performing when operated in normal use and conditions.

Warranty limitations:

- 1- Mechanically damaged parts of the camera (connectors etc.).
- 2- Damages caused by exposure to water and foreign objects.



! NOTE! The camera case loses hermeticity while being assembled or disassembled. The Memory Card of the camera is built-in.

- 3- Damages of electronic components caused by connecting non-standard power supplies.
- 4- Repairs by unauthorized agents (the warranty seal is broken or there is no warranty seal at all).

The warranty covers the trail camera for 12 months.

Information

Camera Serial _____

Camera Model _____

Retailer _____

Date Purchased _____

Manufactured by
Ltd "LEMA"
Arkhangelsk, Okruzhnoe Shosse 3, building 1
(8182) 29-77-27, 46-03-66
e-mail: info@camkubik.ru



KUBIK