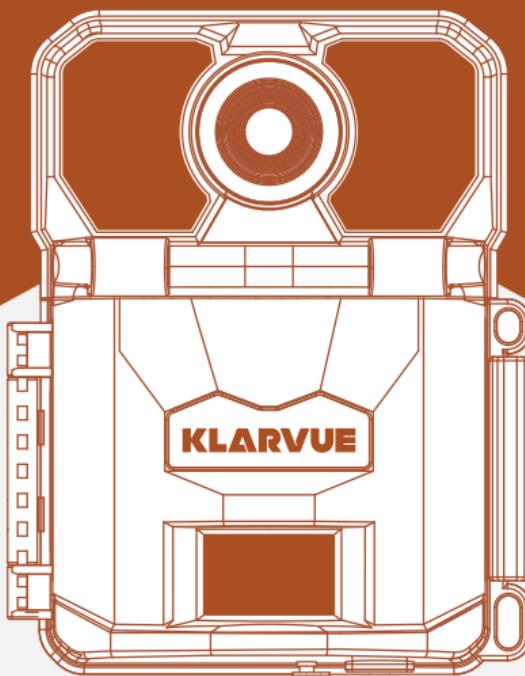




**KLARVUE**



**RANGER**  
**CELLULAR CAMERA**

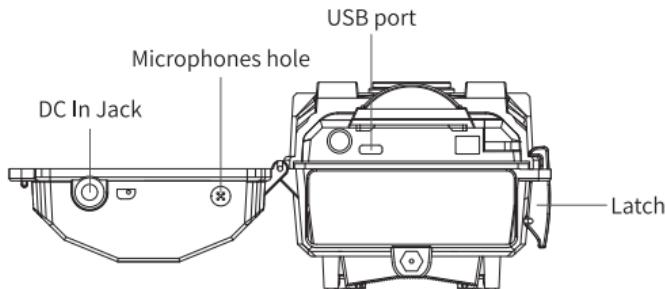
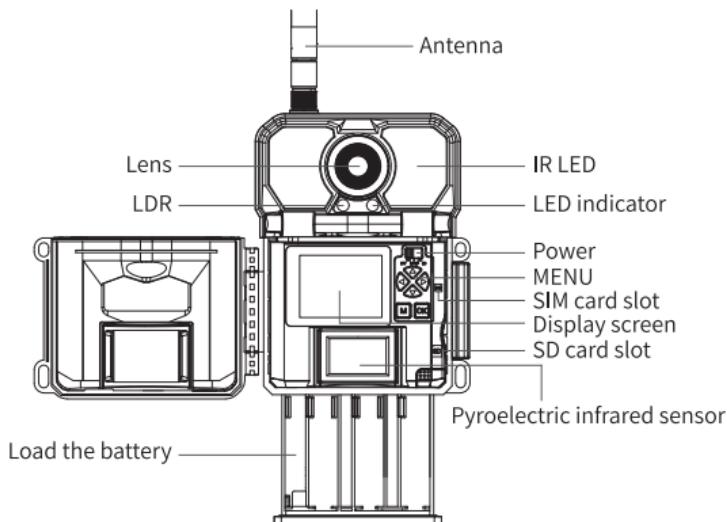


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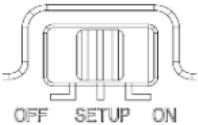
|                              |     |
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# INSIDE THE BOX

CAMERA | ANTENNA | TREE STRAP | SD CARD | STICKER



# CAMERA SETUP

- 1 Screw on and tighten the antenna. Insert the KLARVUE SD Card
- 2 Loosen the latch to open the camera, press the eject button at the bottom right of the camera. Fill tray with 12 new AA batteries
- 3 Toggle the power button to “SETUP”

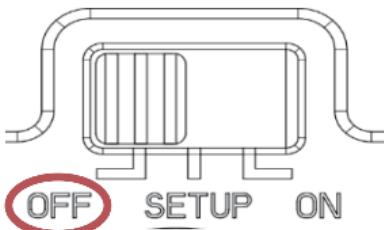
OFF      SETUP      ON
- 4 Download the “KLARVUE” app on App Store or Google Play
- 5 Once downloaded, create an account and follow the in-app instructions to activate your camera
- 6 Once the camera is activated, utilize the display’s live view to position your camera. Then toggle the power button to “ON”
- 7 The camera will now automatically take pictures or videos as per the settings, and the files will be sent directly to your APP

★ ★ PLEASE REFRAIN FROM STAYING IN “SETUP” MODE FOR TOO LONG AS IT DRAINS THE BATTERY FAST

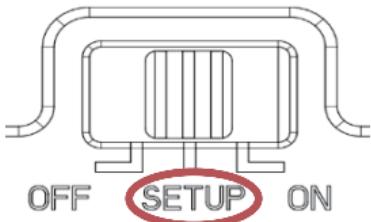
Customer Support Email  
**[support@klarvue.com](mailto:support@klarvue.com)**

## CAMERA MODES

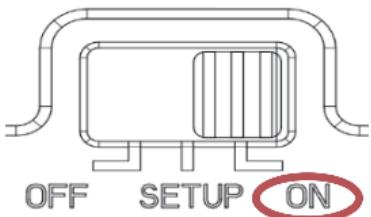
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- Sensors off, display off
- Scenario:
  - Replace SD card / battery
  - Connect device thru USB
  - Camera not in use

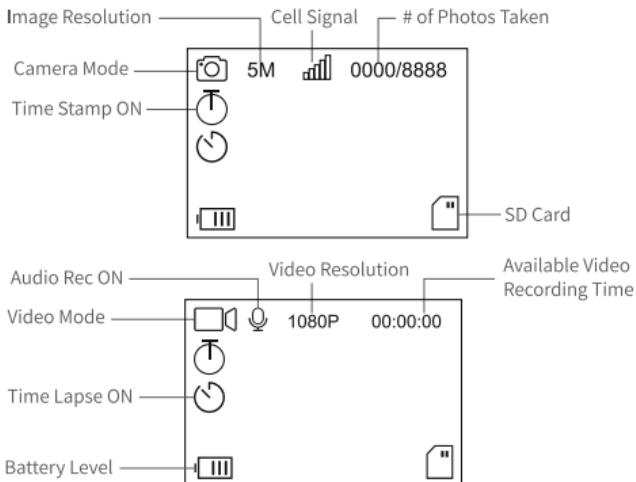


- Sensors off, display on
- Use the display to:
  - activate camera;
  - view gallery;
  - live view / aim;
  - change settings



- Sensors on, display off
- Camera will automatically detect motion and capture photos or videos, as per camera settings

# DISPLAY ICONS & KEY CONTROLS



## IN LIVE VIEW (START-UP SCREEN)

- ↑ : press once to switch to video mode
- ↓ : press once to switch to photo mode
- ◀ ▶ : press once to take a picture
- OK : press once to enter the gallery
- M : press once to enter the settings menu

## IN SETTINGS MENU

- Use all arrow keys to scroll between different settings
- Press "OK" once to enter or confirm a setting
- Press "M" once to return to live view or cancel a setting

## IN GALLERY

- Use up-down arrows to scroll through photos and videos
- For videos only, press ▶ once to play or pause the video
- Press "M" to delete a file. Confirm by pressing "OK"

# CAMERA SETTINGS

---

## Home

**Shot Mode:** Choose whether you want the camera to take photos only, videos only, or both photos and videos (take more memory space)

**Image Quality:** Choose the resolution for each image. A higher quality image will take more memory space

**Photo Burst:** Choose how many photos to capture when the camera is triggered

**Video Quality:** Choose the resolution for each video. A higher quality video will take more memory space

**Video Length:** Choose how long the camera records a single video (5s--- 60s)

**Loop Recording:** New photo/video will automatically replace the oldest file in the SD card, preventing the camera to stop recording when SD card is full

## Camera

**Night Mode:** Choose the flash range depending on the target you want to capture

**PIR Interval:** After the camera is triggered once, how long the camera waits before you want the camera to trigger again

**PIR Sensitivity:** Choose the camera range. Higher sensitivity allows further range of detection, but will increase the occurrence of false triggers

**Operating Hours:** Choose a specific timeframe for the camera to be active  
- Off: 24/7; On: Set up to 2 timeframes

**Time Lapse:** Turn on to take photos continuously under the set timeframe and time interval. When time lapse is on, PIR sensor will stop working

# CAMERA SETTINGS

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## Cellular

**Cellular:** Default is on. When cellular is off, the camera will stop receiving signal

**Upload Frequency:** (When Cellular is on) Choose how often photos/videos are uploaded to your phone. Higher frequency drains more battery and cellular data.

**On Demand:** Enables the camera to take photos on demand in your APP

**Registration:** Display the QR code for camera activation

## System

**Language:** Choose the system language

**Camera Name:** Give your camera a name to be displayed on the data stamp

**Password:** Set a 4-digit password to prevent others from sabotaging your camera

**Time Format:** Choose between the 12-hour or 24-hour time format

**Date/Time:** Set the date and time of the camera

**Date Stamp:** Choose whether to include a date stamp at the bottom of every image

**Format SD Card:** Erase all data in the SD card

**Factory Reset:** Restore all settings to the original state

**Version:** Display the camera's firmware version and MCU version

# HELPFUL TIPS

## General

1. To maximize battery life, limit the upload frequency to every 3 hours or longer, and a PIR interval of 10 seconds or longer. Use lithium batteries during winter
2. Before replacing the batteries or SD card, toggle the camera to "OFF" mode
3. When using an external power supply, make sure that voltage is 12V
4. DO NOT replace the pre-installed SIM card
5. DO NOT submerge the camera in water
6. DO NOT mix battery types or use rechargeable batteries
7. Indicator Color:
  - i) **Green**: Firmware updating
  - ii) **Red**: The camera is turned on and ready for operation
  - iii) **Blue**: Low battery

## Mounting

1. Avoid mounting the camera on unstable trees or posts
2. Avoid facing the camera toward the sun, face the camera north or south
3. Mount the camera 3-5 feet above ground, and 20-30 feet from your target
4. Clear any brush and tree limbs in the field of view to prevent false triggering

## Recommended Accessories (purchase separately at [KLARVUE.COM](http://KLARVUE.COM))



Security Box



Micro / Wide  
Lens



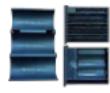
5m  
Antenna



Tree  
Mount



Solar  
panel



Battery Pack  
for 18650s

# SPECIFICATIONS

|                              |                                                                                     |
|------------------------------|-------------------------------------------------------------------------------------|
| <b>IR Range</b>              | 100 FT                                                                              |
| <b>PIR Angle</b>             | 45°                                                                                 |
| <b>Flash</b>                 | No Glow IR (No Flash)                                                               |
| <b>Buttons</b>               | Power button; navigation arrows; Menu button; Confirm Button                        |
| <b>Display</b>               | 2 Inch HD Display                                                                   |
| <b>Lens</b>                  | f=7.36mm F/NO:2.8 FOV=55°; Auto IR-Cut-Remove (at night); Support micro lens: 450mm |
| <b>Interface</b>             | LTE (APP); USB; SD Card                                                             |
| <b>Trigger Speed</b>         | < 0.25 Second                                                                       |
| <b>Image Resolution</b>      | 32MP; 16MP; 4MP                                                                     |
| <b>Video Resolution</b>      | 2k; 1080p; 720p                                                                     |
| <b>Video Sound</b>           | Optional                                                                            |
| <b>Camera Weight ( lbs )</b> | 0.99                                                                                |
| <b>Camera Dimension (in)</b> | 5.7 * 4.5 * 3.5                                                                     |
| <b>Waterproof Rating</b>     | IP65                                                                                |
| <b>External Power</b>        | 12V                                                                                 |
| <b>Operating Temperature</b> | -25°C to 60°C<br>-13°F to 140°F                                                     |
| <b>Operating Humidity</b>    | 5%- 90%                                                                             |

# TROUBLESHOOTING

| Problem                                        | Solution                                                                                                                                                                                                                                              |
|------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Camera Won't Connect</b>                    | <ul style="list-style-type: none"><li>• Make sure you have an active subscription in KLARVUE APP</li><li>• Move the camera to a spot with better signal</li><li>• Purchase an antenna extender</li><li>• Make sure the SIM card is in place</li></ul> |
| <b>Camera False Triggers too Often</b>         | <ul style="list-style-type: none"><li>• Clear tree branches, brush, and weeds from field of view</li><li>• Lower the "PIR sensitivity"</li></ul>                                                                                                      |
| <b>Night Photos too Blurry</b>                 | <ul style="list-style-type: none"><li>• Adjust "Night Mode" to a different setting</li><li>• If your camera is aiming at an open field, relocate it to a spot that has more objects in the field of view</li></ul>                                    |
| <b>Pictures look Condensated/Foggy</b>         | <ul style="list-style-type: none"><li>• Bring your camera back inside and place it in a dry place, then wait until the condensation dissipates</li></ul>                                                                                              |
| <b>The Camera Won't Turn On</b>                | <ul style="list-style-type: none"><li>• Check the battery status, replace battery if necessary</li></ul>                                                                                                                                              |
| <b>The Camera Won't Record New Image/Video</b> | <ul style="list-style-type: none"><li>• Check the SD card memory status. Turn on "Loop Recording" to delete the oldest file every time, or replace the SD card completely</li></ul>                                                                   |

# WARRANTY

- **Duration: 1 year from the date of purchase, automatically registered**
- **Coverage:**
  - Manufacturer defects in materials and workmanship such as defective buttons
  - Any damage caused by nature or the owner's misuse, or alterations is not covered
  - Covered cameras will be replaced or repaired free of charge
- KLARVUE reserves the right of final determinations of warranty coverage
- For more information, contact [support@klarvue.com](mailto:support@klarvue.com)

## FCC Warning

**This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:** (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Note:** The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. such modifications could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement. To maintain compliance with FCC's RF exposure guidelines, the distance must be at least 20 cm between the radiator and your body, and fully supported by the operating and installation

## IC Warning

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions: (1) This device may not cause interference. (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient des émetteurs/récepteurs exempts de licence qui sont conformes aux normes CNR exemptes de licence d'Innovation, Sciences et Développement économique Canada. Son fonctionnement est assujetti aux deux conditions suivantes : (1) Cet appareil ne doit pas causer d' interférences. (2) Cet appareil doit accepter toute interférence, y compris celles qui peuvent entraîner un fonctionnement indésirable de l'appareil.

The device has been evaluated to meet general RF exposure requirement. To maintain compliance with RSS-102 — Radio Frequency (RF) Exposure guidelines, this equipment should be installed and operated with a minimum distance of 20cm between the radiator and your body.

Le dispositif de a été évalué à répondre général rf exposition exigence.pour maintenir la conformité avec les directives d'exposition du RSS-102-Radio Fréquence (RF). ce matériel doit être installé et exploité à une distance minimale de 20 cm entre le radiateur et votre corps.

# KLARVUE

[support@klarvue.com](mailto:support@klarvue.com)

V1.0

KLARVUE