

NITEforce

CONCEPT 4G LTE

User Manual



CE FC RoHS

Declaration of Conformity to Directive 2014/53/EU

CE Caution:

Hereby the manufacturer declares that this 4G LTE Wireless Trail Camera is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. A copy of the DOC, Declaration of Conformity to Directive 2014/53/EU, may be obtained thru the local distributor.

PLEASE READ CAREFULLY BEFORE USING CAMERA

Thank you for Purchasing your NITEforce Trail Camera

The NITEforce CONCEPT 4G LTE is a high-quality digital wireless trail camera. It has been precisely engineered and tuned to provide you with optimal and consistent performance. This camera will provide high quality digital pictures and video for applications such as home, cabin and business surveillance and animal monitoring for hunting and research. It features a highly sensitive Passive Infra-Red (PIR) motion sensor and numerous mobile APP setting options to tailor the camera to your particular needs. Camera offers you high quality product using many useful features.

- ✓ Take photos & transmit over wireless network
- ✓ Allow users to view photos, monitor camera status and modify parameter settings through mobile APP

Camera has pre-installed Micro SD card. You only need to install antenna, own SIM card, 8 x AA alkaline batteries, and install mobile APP (Android & iOS) to use it. **APP Download** links are able to find: www.niteforce.mobi

NOTE:

1. Each camera has a unique QR code ID, which can be seen when you open the device cover. You will need to enter the code to APP in order pair the camera and APP
2. For video function, due to the limitation of transmission speed and power consumption, camera only transmits the thumbnail pic of the first frame instead of the whole video

SPECIAL HANDLING PRECAUTIONS

The camera has been finely tuned. Avoid dropping and physical shock. This camera is designed for typical weather conditions (IP66). It is not waterproof for use underwater.

Carefully clean debris from camera lens, PIR, and LED platform. Avoid use of cleaning solvents. Camera contains precise electronic equipment. Do not attempt to open camera case yourself. Fog condensation may form on lens and electrical components when bringing into warm room from cold. To avoid this, first place camera inside a sealed plastic bag before bringing into warm room temperature. If condensation forms, remove SD card and batteries until camera is dry. Remove batteries when storing camera.

Removing batteries from the camera during storage reduces the risk of battery acid leakage and battery drain. Battery leaks are not covered by the warranty. When using the camera, Do Not mix old and new batteries together in the camera. **Use only High Quality AA alkaline batteries.**

CELLULAR INFORMATION

This camera contains LTE 4G cellular module to transmit pictures directly from the camera to your mobile phone APP. Its capable to support 3G and 2G in areas where no 4G network present. Under 2G network only small thumbnail picture sending possible, no original picture, due the network small data upload speed. Operator SIM card costs and payment plans are between camera user and operator. **NOTE:**

Remember disable (take off) the PIN code from the SIM card, before inserting SIM card to camera.

GETTING STARTED

Check the Delivery Content

Trail Camera x 1

4G LTE Antenna x 1

Pre-Installed Micro SD card x 1 (inside camera TF)

External 12V power cable x 1

Mounting Strap x 1

User Manual x 1

Mobile APP download links: www.niteforce.mobi

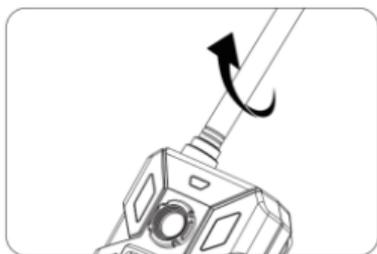
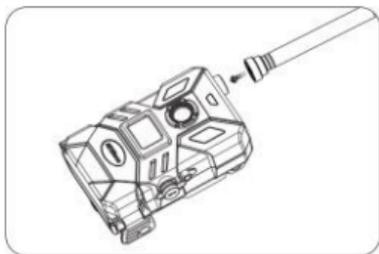
Needed for Operation?

8 x AA 1.5V Alkaline Batteries

1 x SIM card with LTE 4G High Speed data plan

> MOUNT ANTENNA

Mount the LTE 4G antenna. Do not use camera outside without antenna. It is protecting the antenna hub from rain



> INSERT SIM CARD

Insert micro SIM card as shown in below picture:



> Push micro SIM card gently until it "clicks" into place inside the camera

> If micro SIM card needs to be removed, push again gently and

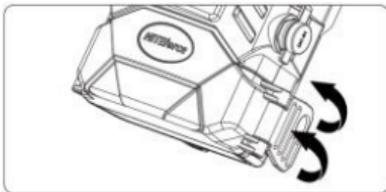
you will hear "click"

Remove PIN code from your SIM card, before inserting micro SIM card into camera

Note: Check your SIM card data plan speed details from your operator, before installing SIM card. The camera supports SIM card with LTE 4G High Speed. If original pictures are sent, minimum Upload Speed 5MB/sec is required

> INSERT BATTERIES

Insert 8pcs Good Quality AA 1.5V Alkaline Batteries while ensuring polarity (+ / -) is correctly orientated. Please see below pictures:



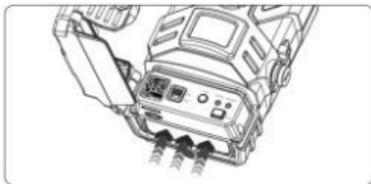
Open the front door of the device by unlatching the locking tab



Press the "Eject" button to eject the battery compartment



Insert 8pcs of new alkaline batteries according to the +/- directions shown on the bottom of the battery compartment



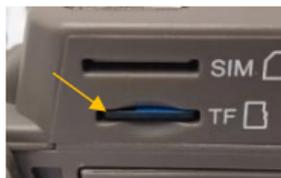
Push the battery compartment to the bottom to lock it

Note 1: Do Not mix old and new batteries together in the camera

Note 2: Do Not mix different branded batteries in camera

Warning: Remove batteries when storing the camera. Removing batteries from the camera during storage reduces the risk of battery acid leakage and battery drain. Any kind of battery leaks are not covered by the warranty

> CHECK MICRO SD MEMORY CARD IS IN “TF” PORT



Use “slow” read/write speed micro SD cards (**SDHC/UHS**). The camera does not have any internal memory for picture and video saving. Max capacity micro SD card is 32GB.

**Camera is now ready for operation.
Please follow the next steps in order to link your
camera to mobile APP**

APP Installation and Account Registration

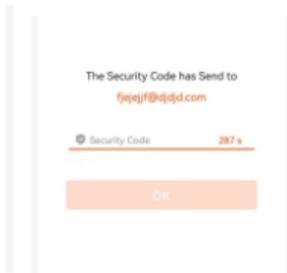
You will find the APP link from www.niteforce.mobi website. If you use Android or iPhone mobile phones, please click the correct download link to Store platforms.



Click download and install the mobile APP to your phone

In order to register your exclusive account on mobile APP, you must have an email address for verification code.

- 1) Click the register icon on the Login interface of mobile APP to enter the new account registration interface
- 2) Enter your email address and create password for the mobile APP account
- 3) Click the **"Get Security Code"** icon
- 4) You will soon receive a verification code to your e-mail inbox (please check spam folder in not seen it at inbox)
- 5) Please fill in the verification code in the location indicated by the mobile APP and click the "OK"

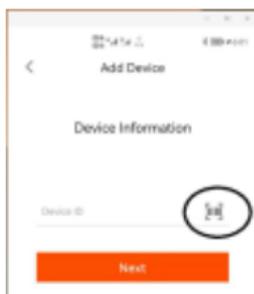


After registering your account, you can log in to mobile APP and

it's ready for operation.

Add Camera to your mobile APP Account

- 1) Toggle the Power Switch of the camera to ON
- 2) Go to the "Devices" screen in the mobile APP
- 3) Click "Add Device / +" button
- 4) Insert camera serial number or scan the QR code on the camera using the QR code scanning



After adding camera successful, continue operations according to the APP instructions until the APP indicates that the camera is successfully paired with mobile APP.

LED INDICATOR LIGHTS

During the first 5min after camera power has been turn ON, the red LED at the top of the camera will blink for any PIR trigger and

repetitively blink for any photo shot. You can test the PIR sensing area front of the camera.

		Meaning of indicator
Device Green LED Long Light	/	Device is operating normally (i.e. normal SD card + current power $\geq 25\%$)
Device Green LED Fast Blink	/	The device is taking pictures or videos
Device Yellow LED Blink	/	SD/TF card is full.
Device Red LED Long Light	/	SD/TF card is normal, but current power $< 25\%$
Device Red LED Blink	/	No SD/TF card is found, or the SD/TF card is damaged
/	Network Green LED Long Light	Networking or transmitting succeeded
/	Network Green LED Blink	Sending pictures
/	Network Yellow LED Blink	Connecting to the server
/	Network Red LED Long Light	Networking or sending failed
/	Network Red LED Blink	There is no SIM card, or the SIM card is damaged
Device Yellow LED Long Light	Network Yellow LED Long Light	Firmware upgrading

After 5min testing period, the LED indicator lights are only active under the closing latch. Camera is now ready and sending to your mobile APP.

mobile APP SCREENS



How to refresh pictures?



Powering Camera

1.5V AA Alkaline battery power and/or external 12V battery power status is able to see from the mobile APP. See under Device Menu option.

8pcs AA 1.5V Alkaline battery use

You can use your camera with 8pcs of AA 1.5V high quality Alkaline Batteries. Batteries should be inserted with correct electrode position as marked in battery case. Incorrectly inserted batteries will cause device damage.

Do Not mix old and new batteries together in the camera. Do Not mix different branded batteries in camera.

Warning: Always remove batteries when storing the camera.

Removing batteries from the camera during storage reduces the risk of battery acid leakage and battery drain. Any kind of Battery leaks or problems are not covered by the warranty.

Due to different settings, amount of activities within camera

detection zone, different brands and quality of batteries and time of the year (summer vs winter), we are not able to give you exact number of photos and/or videos that camera can achieve.

You can add your camera operation time connecting the camera to 12V external LeadAcid battery. You can keep the internal AA Alkaline batteries installed during the external 12V power source use.

12V External Battery use

You can connect your camera to external 12V battery with NITEforce battery cable (included). Using 12V external battery you will achieve longer operation time on the field. 12V LeadAcid batteries are available from battery specialized stores. Please see examples:



Good and High Capacity battery choices for colder winter time months use are for example 12V / 7Ah or 12V / 10Ah or 12V / 12Ah LeadAcid batteries. More Capacity = Longer Operation time. If external battery is used under extreme cold winter circumstances, you can place the battery inside the plastic bag and bury the external battery under the snow layer. Snow layer will be protecting the external battery frozen when cold (-10 °C or colder).

Note 1: Camera Operation Temperatures are -20°C ... +50°C

Note 2: Check your Battery Operation Temperatures from dealer
When the external battery power is dropping below 11V, it's time to re-charge your battery with 12V Power-Charger.

MOUNTING OF THE CAMERA

This camera is designed to use the Nylon mounting strap (included) to obtain maximal mounting versatility. Camera can be securely locked with cable lock (sold separately).

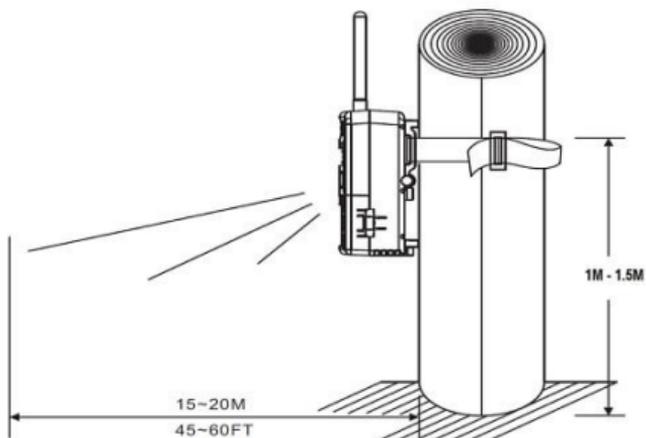
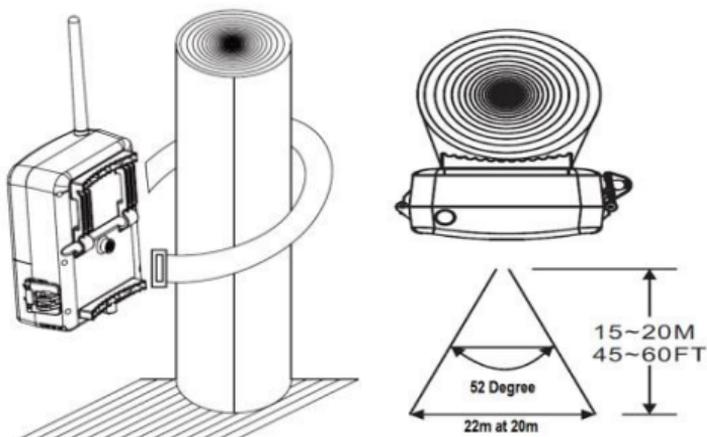
It is recommended to mount the camera 1m – 1.5m height

pointing to desired area and 7m away from target center area for maximum sensitivity in most situations. Adjustments may be required depending on animal size and environment. PIR motion detection distance changes based on ambient temperature and setup. Higher ambient temperatures will reduce PIR motion detection range thereby requiring camera to be closer to desired location. Mounting camera too high or angling camera may result in animal or humans going under or above the PIR motion detection range.

Angle the camera perpendicular to the ground to maximize the Flash lighting potential.

Note: Cars and other motorized vehicles are not animals. Those are emitting heat motion differently vs humans and animals. Cold engine is not emitting heat.

Tree Mounting



Avoid installing the camera directly at sunrise or sunset, so that the sunlight will not directly shine on the lens. If installed in a dusty environment, regularly clean the camera lens cover, flash cover and PIR sensor cover. Regularly check the camera mounting to ensure that it doesn't become loose. To keep any water from damaging the equipment, the camera door must remain closed with the latch locked tightly while the camera is in use. Regularly check if the battery has a corrosive accumulation, which may harm the camera. Regularly check the battery power to ensure that there is enough power.

Trouble Shooting

Camera is Not Sending?

* Please check the SIM data plan transfer speed from your operator. The camera supports SIM card with LTE 4G High Speed. Upload Speed 5MB/sec is required from your SIM data plan. **Low Speed "2G" data plans are not able to transfer original pictures (too slow network)!**

* Please check that you are using external 12V battery especially

during the winter months. Sending during the cold winter requires Power. Small AA batteries could be frozen more easily (power is frozen).

- * Check that micro SD card is not full

- * Please make sure SIM card PIN code is disabled (OFF)

Photos Do Not Capture Subject of Interest?

- * Check the “PIR Sensor Level” (PIR sensitivity) parameter setting

- * Try to set your camera up in an area where no heat resources are in the camera’s field of view (lake, river)

- * In some cases, like camera near water will make the camera take images with no subject in them. Try to aim the camera over ground.

- * Try to set camera on stable and immovable objects

- * At night, PIR motion detector may detect beyond range of the Flash illumination. Reduce distance setting by adjusting PIR sensor sensitivity.

- * Rising sun or sunset can trigger sensor. Camera must be reoriented.

- * If person or animal moves quickly, it may move out of the camera’s field of view before photo is taken. Move camera further

back or redirect camera.

- * Try to avoid setting the camera up on small trees that are prone to being moved by strong winds.

- * Remove any obstacles which are right in front of the camera lens.

Camera Stops Taking Images or Won't Take Images?

- * Please make sure that the SD card is not full. If the card is full, camera will stop taking images

- * Check the Power. Make sure that Alkaline AA batteries and/or external battery has enough power for camera to work

- * Make sure that the camera power switch is in the "ON" position and not in the "OFF"

Night Vision Flash Range Doesn't Meet Expectation?

- * Please check the Power sources: AA Alkaline and/or external battery conditions

- * Use external battery especially during winter

- * To ensure accuracy and quality of night time image, please mount camera to dark environment without any obvious light sources

- * Surroundings like trees, walls and ground, the flash range can get you better night time images
- * Do not aim camera to the total open field when there is nothing within flash range to reflect flash back. It's like shining a flashlight into sky in night, you just can't see anything. Same does camera

Get More Pictures Saved to the SD Card than Transmitted?

- * Poor reception or busy network signals may result in poor connectivity at certain times and places
- * Increase PIR Delay to 1 – 3 min as the camera may not be able to transmit as fast in certain network areas
- * Move camera to different location and test connection strength and sending
- * Change SIM from different operator who has better 4G signal on the area

The Camera Does Not Turn ON

- * Ensure batteries are inserted properly with correct polarity and are full. If possible, test each battery with battery tester. Approximately 1.5V for AA is full power. External battery 12V

* Cold temperature may decrease battery output sufficiently to prevent camera from turning ON. Check batteries and/or external battery that those are rated for cold temperature

Batteries Run Down Quickly?

Avoid poor quality alkaline and external 12V batteries. Avoid mixing different brands and ages of batteries as battery life will be adversely affected. Different brands of batteries will perform differently than others. Try other battery brands to find what works best for your environment. Reduce number of picture burst and adjust longer PIR delay. Ensure batteries are full. Test batteries with tester if possible. In cold temperatures, the battery life becomes shorter



FCC Compliance

This equipment has been tested and found to comply with the limits for 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 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.

1 YEAR WARRANTY

This product is warranted to be free from defects in material and workmanship for 1 year from the original date of purchase when purchased through an authorized dealer. NITEforce will, at its option, repair or replace your product with the same or comparable model, free of charge (shipping charges may apply) for a period of (1) one year from the original date of purchase in

the event of a defect in materials or workmanship occurring with normal use. This warranty only extends to the original retail purchaser. Purchase receipt or other proof of date of original purchase is required before warranty performance. The warranty on any replacement product provided under this warranty shall be for the unexpired portion of the warranty period applicable to the original product. This warranty extends solely to failures due to defects in materials or workmanship occurring during normal use. It does not cover normal wear of the product.

This warranty is void if:

- 1.The unit has been used incorrect, opened or punctured
- 2.The unit has been immersed in water or other liquids, allowed to be filled with dirt or dust or otherwise physically misused
- 3.The 1year warranty period has expired
4. If the product fails to function properly as a result of accident, misuse, abuse, neglect, mishandling, misapplication, non-compatible batteries, faulty installation, setup, adjustments, improper maintenance, alteration, maladjustment of controls, modification, power surges, service by anyone other than NITEforce or NITEforce authorized service center or acts beyond

the manufacturer's control.

CAMERA REPAIR

Repairs for damages not covered by the warranty will be subject to a charge. Please contact nearest NITEforce sales agency shop to discuss repair options not covered under warranty.

WARRANTY WARNING
Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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