

**REVEAL**  
CELLULAR CAMERA  
**TACTACAM**™

**ULTRA**



**INSTRUCTION MANUAL**

**TACTACAM.COM**

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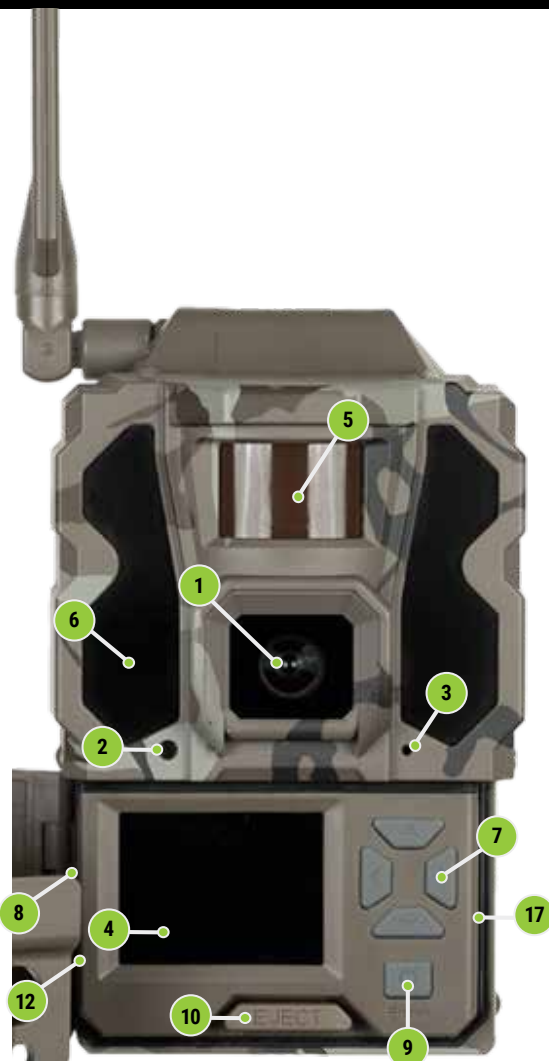
## WHAT YOU WILL NEED

- Full-size SD Card - Class 10, U3, 16GB–32GB *(Optional)*
- Recommended Brands: Tactacam™, Lexar®, SanDisk® *(Other brands that are lower end SD cards are incompatible with the REVEAL X-Pro and will yield unexpected results)*
- (12) AA Batteries Required - Lithium Batteries recommended in colder temperatures

# GET TO KNOW YOUR CAMERA

## CAMERA ANATOMY

- 1 Lens
- 2 Camera Working Status Indicator
- 3 Microphone
- 4 Display Screen
- 5 PIR Motion Sensor
- 6 IR LEDs
- 7 Navigation Arrows
- 8 SD Card Slot
- 9 Power/Enter
- 10 Battery Eject Button



- 11 External Battery In/DC Port
- 12 USB Port
- 13 Camera Stake/Mount Attachment
- 14 Cable Lock Holes
- 15 1/4-20 Accessory
- 16 Strap Holes
- 17 Reset Button

## RECOMMENDED CAMERA ACCESSORIES (NOT INCLUDED)



SD Card



Solar Panel



Lockable Security Box



T-Post Mount



Lithium Cartridge



Adjustable  
Camera Stake



Battery Belt



Folding Solar Panel

VIEW AND PURCHASE ALL ACCESSORIES AT [TACTACAM.COM](http://TACTACAM.COM)

# QUICK START GUIDE

## SETTING UP THE CAMERA

1. Install a Class 10 U3 SD card (16GB or 32GB) (optional).
  - Recommended brands are: SanDisk, Lexar and Tactacam
2. Install 12 AA batteries or REVEAL Lithium Cartridge.
  - To eject the battery tray, press the EJECT button on the REVEAL. When inserting AA batteries correctly orientate + and - on the front and back of the tray.
  - See battery details on page 9 under Best Practices.

## SIM CARD

- SIM is already installed in your camera
- Your camera will scan for the best cellular network so you don't have to worry about switching SIM cards or guessing which one works the best.

## SD CARD

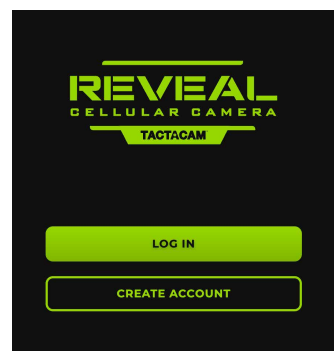
- SD card is optional.
- If SD card is present, camera will write to SD card first if SD card is working.
- SD loop applies to SD card if inserted. Otherwise, the looping will work on internal memory.

## SETTING UP YOUR ACCOUNT

If this is your first REVEAL that you are activating, please visit the REVEAL Web Portal at:

<https://account.revealcellcam.com> to set up your account. You can also access the Web Portal directly from your app, by clicking REVEAL WEB on the account page in the app.

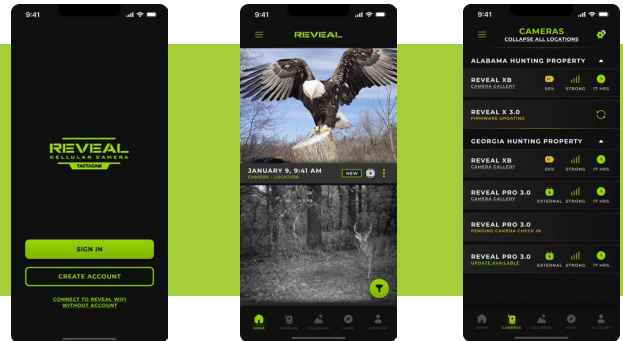
If you already have a REVEAL account with ACTIVE cameras, you can simply log in to your app and add your camera following the instructions on page 5.



# QUICK START GUIDE

## DOWNLOAD THE REVEAL APP

In your Apple or Google Play Store, download the Tactacam REVEAL app and sign in using the same email and password you created on the website (<https://account.revealcellcam.com>).

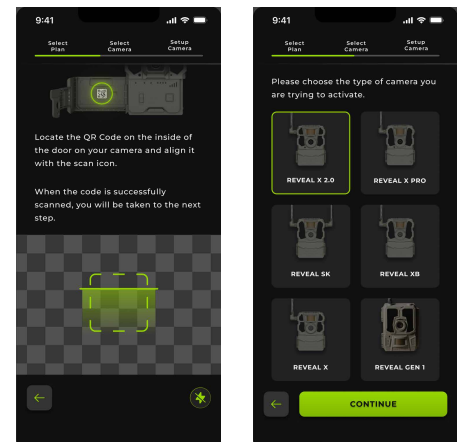


[CLICK HERE](#)

TO DOWNLOAD THE APP OR  
VISIT YOUR APP STORE TO  
DOWNLOAD

## ADD CAMERA TO THE APP

1. Navigate to the REVEAL app on your device and login using your REVEAL account credentials. Click the home icon.
2. Click the menu in the upper left corner.
3. Select "+ Add a Camera".
4. Select the plan you wish to have and the model of the camera.
5. Follow the prompts, allow access to the camera of your phone, and then scan the QR code on the camera.
6. Name your camera, assign a location



## ON-SCREEN SETTINGS

Ultra allows you to fully control your camera settings directly on the screen. Use the keypad to navigate left, right, up, down, and enter to adjust camera settings. For best results, we recommend leaving the camera settings in factory mode.



# QUICK START GUIDE

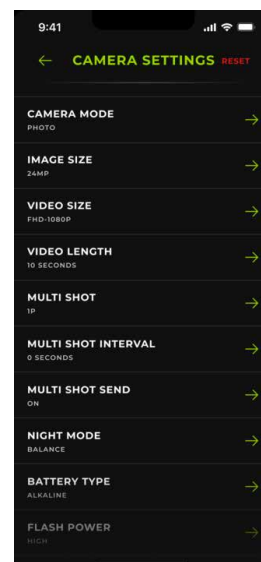
## CONNECTING TO WIFI

1. Turn your REVEAL LCD screen on by pressing the "Power" button.
2. When the Wi-Fi icon is flashing on the LCD screen, it is ready to pair to your phone or tablet.
3. In the app go to the Account page and click Connect to REVEAL Wi-Fi.
4. Follow the in-app instructions. You can also manually connect in your phone's Wi-Fi settings, select REVEAL and enter the password ( Reveal2021 ) This Wi-Fi password is case sensitive, no spaces.
5. See preview on screen.
  - Red line on preview is point of focus.
  - To send test picture, press "Power" button on camera.

## REMOTELY CHANGE THE CAMERA SETTINGS FROM THE APP

From the camera page click beside the camera name. Then choose "Camera Settings". Make sure to select "Apply Settings" when done to save your changes.

**Note: In camera's SETTINGS > Settings Check, Daily mode will check settings every 24 hours. Hybrid mode the camera stays awake for 5 minutes after every picture to receive SMS commands from the app. Instant mode will receive settings instantly but will consume more battery.**



## SENDING A TEST PICTURE

1. Allow the camera to connect to 4G signal. Your signal strength will be displayed on the screen.
  - After your camera is activated, you will see the signal status indicator searching, and then connect showing the signal strength.
  - After the camera has connected, push the power/enter button to send a photograph.
  - When your test picture has been sent successfully, a message is displayed on the REVEAL screen notifying you..
  - If your test picture does not send, a send failure message will display on the REVEAL screen.
2. As long as your phone picks up a signal, be sure a motion detected picture is sent to your phone via the app. This may take a few minutes.

# QUICK START GUIDE

## LEAVING YOUR CAMERA IN THE FIELD

1. Using the display screen or stream video via Wi-Fi, position the camera to your desired focal point.
2. Wipe down the seal, removing any dirt and/or debris.
3. Hit the left navigation arrow to enter work mode or allow the camera to enter work mode automatically after a short period of time (*work mode means the camera is on and will function correctly*). Your camera will then begin sending you photos.
4. As long as your phone picks up a signal, be sure a motion detected picture is sent to your phone via the app. This may take a few minutes.

Active GPS feature allows the device to send coordinates to the app for up to weeks after the camera is turned off or loses power and alerts you if the camera is moved more than a half-mile from its previous location—critical features for tackling theft or loss. Toggle Active GPS on and off in your camera menu

## SETTINGS / SPECIFICATIONS

|                                   |                                                                                                                                                 |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| Camera Mode                       | Photo; Photo+Video; Live Streaming                                                                                                              |
| Day/Night Mode                    | Daytime: Color, Nighttime: B+W                                                                                                                  |
| IR Range                          | 80+ Feet No Glow; 96+ Feet Low Glow                                                                                                             |
| PIR Angle                         | 45°                                                                                                                                             |
| Flash                             | Selectable low and No-Glow IR Technology dramatically reduces visible flash.                                                                    |
| Operating Keys (2)                | 1x Power button; Navigation arrows                                                                                                              |
| Lens                              | F=6mm; F/No=2.0;<br>FOV=60° Auto IR-Cut-Remove ( <i>at night</i> )                                                                              |
| SD Card ( <i>Optional</i> )       | Class 10, U3, 32GB, minimum 90MB/Sec                                                                                                            |
| Picture Format                    | JPEG                                                                                                                                            |
| Video                             | Optional                                                                                                                                        |
| Trigger Speed                     | ~0.35 seconds                                                                                                                                   |
| SD Card Loop                      | Optional                                                                                                                                        |
| Operation Power                   | 6.2-12V                                                                                                                                         |
| Battery                           | X = 12xAA Cartridge<br>Optional external power source ( <i>12V external battery pack or solar panel</i> )<br>- Barrel plug reducer size 4x1.7mm |
| External DC                       | 12V-2A                                                                                                                                          |
| Request HD Photo and Video via 4G | Only in supported locations<br>( <i>Additional data charges may apply</i> )                                                                     |

|                            |                                                               |
|----------------------------|---------------------------------------------------------------|
| Upload Frequency/Send Type | Instantly ( <i>Timely</i> ) Once, Twice, and Four times daily |
| 4G Communication           | LTE wireless                                                  |
| 4G Antenna                 | 1 Antenna                                                     |
| Device Serial No.          | Yes                                                           |
| Interface                  | LTE, USB, and SD Card                                         |
| Mounting                   | Strap; Tree Mount or Camera Stake ( <i>not included</i> )     |
| Operating Temperature      | -25°C to 60°C<br>-13°F to 140°F                               |
| Operation Humidity         | 5% to 90%                                                     |
| Waterproof rating          | IP66                                                          |
| Dimensions                 | 3.86"x3.12"x5.9"                                              |
| Weight                     | About 1 lb                                                    |
| Certification              | FCC RoHs                                                      |

### Live Streaming

- Settings Check must be in Instant Mode
- Requires an add on subscription
- Enter Live View from the Camera's Menu or from a photo thumbnail

# BEST PRACTICES

## PROPER CAMERA PLACEMENT

1. Location and placement is critical for optimal camera performance.
2. Avoid hanging the camera on small trees that are prone to moving with the wind.
3. Place the camera about waist high on the tree or post.
4. We recommend having the camera pointing down about 7 to 15 degrees or the REVEAL Tree Mount.
5. To achieve the best lighting conditions, face your camera North. Avoid facing your camera toward the sun.
6. If the camera is placed too high on a tree and angled down, the field of view “window” becomes narrower, this is only a good idea if you plan to set your camera to watch a bait station or scrape.
7. On a food plot:
  - Camera height and angle is critical to get the widest field of view. Do not place camera too high.
8. On a trail:
  - For the best view, place your camera at an angle looking up or down the trail rather than perpendicular to the trail.

## BATTERIES AND CELLULAR TRAIL CAMERA PERFORMANCE

1. Use the recommended batteries for the REVEAL:
  - Energizer® lithium batteries
  - Duracell® Max alkaline batteries
  - Rayovac® UltraPro alkaline batteries

*\* Do not mix old and new batteries*

*\* Do not mix alkaline, lithium, standard, or rechargeable batteries*

*\* Ensure the batteries are installed correctly with the regard to polarity (+ and -).*

*\*Always remove batteries if consumed or if product is to be left unused for a long time.*
2. In cold weather, use lithium ion batteries for optimal camera speed and performance.
3. If connecting the External Solar Panel (*sold separately*), the AA batteries would act as a backup power source. When paired with a REVEAL Lithium Cartridge, the Reveal V2 Solar Panel will charge your Reveal V2 Lithium Cartridge, Reveal Folding Solar Panel and Reveal Battery Belt.

# TROUBLESHOOTING

## CAMERA SENDS PICTURES OF NOTHING

**Motion sensors** (*PIR sensors*) are actually heat and motion sensors. This is why on a hot and windy day, people get false triggers. People and animals are not the only objects that will trigger your camera; vegetation and precipitation can act as a moving target as well.

1. Be sure to clear any low hanging tree branches, brush, and weeds from the field of view, 5-10 yards in front of the camera.
2. Motion sensitivity recommendations:
  - To start set to High, and decrease sensitivity if you're getting too many false triggers (*9 being the highest and 1 being the lowest*).

## NIGHT VISION FLASH RANGE DOESN'T MEET EXPECTATION

1. Check to make sure that batteries are fully charged.
2. "Max Range" offers better IR flash range. Given IR flash range values are based on max range setting; adjust Night Mode to Max Range for better night vision flash range. Low Glow provides better range than no glow
3. High quality 1.2V NiMH rechargeable AA batteries can also offer improved IR flash range.
  - Note: If your camera will be used in cold weather, we do recommend lithium batteries to deliver consistent results.
4. Certain surroundings (*like trees, walls, ground, etc.*) within flash range can deliver you better night time images. To improve night images do not aim camera in an open field where there is nothing to reflect the IR flash back.

## TO HELP PREVENT THEFT OR DAMAGE

Use a protective security box such as the one listed at [www.tactacam.com](http://www.tactacam.com).



# TROUBLESHOOTING

## **CAMERA STOPS TAKING IMAGES OR WON'T TAKE IMAGES**

1. Make sure that the SD card is not full. If the SD card is full, the camera will stop taking images. Users can turn on SD Loop to avoid such problems. This will cause the SD card to overwrite older images.
2. Make sure that alkaline or NiMH-AA batteries have enough power for the camera to work.
3. Format the SD card with the camera before using or when the camera stops taking images.

## **INTERNAL CONDENSATION ON LENS**

The REVEAL is IP66 rated waterproof. This means the camera is water resistant against powerful jets. The only way the REVEAL can get condensation in or behind the lens is if the antenna is not screwed in all the way, or if there is dirt or debris on the seal. Follow these at home instructions to alleviate this issue if need be:

- Pull the SD card out and let the camera sit for 3–4 days open, in an area where there is circulating air (*fan or vent*).
- You can also put in a sealed container with rice for 24 hours to draw out the moisture.
- Clean the seal well and tighten your antenna.
- Place back out in the field.

## **IF THE CAMERA HAS ACCIDENTALLY BEEN SUBMERGED IN WATER**

1. Do not open the camera right away.
2. Be sure to dry the outer housing of the camera, preventing water from entering the inside of the camera and causing internal damage.

# LIMITED WARRANTY

## HOW LONG DOES THIS COVERAGE LAST?

1. One year from the date of purchase.

## WHAT IS COVERED?

1. This limited warranty covers: manufacturer defects in materials and workmanship including but not limited to:
  - Defective buttons
  - Cracked/chipped glass lens
  - Broken SD card spring mechanism
  - Broken USB port
2. Covered cameras will either be repaired by a certified camera technician, or replaced.

## WHAT IS NOT COVERED?

1. This limited warranty does not cover any damage caused by the owner modifying, attempting to fix, or otherwise altering the product.
2. This limited warranty excludes damage caused by people or animals, including but not limited to: antenna, strap, fresnel lens, glass lens, or camera housing.
  - If damage is caused to the camera by the owner or animal, contact customer support for repair options to retain warranty coverage.

# FCC REGULATIONS

## FEDERAL COMMUNICATIONS COMMISSION - PART 15

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the Federal Communications Commission 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.

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

**DO NOT RETURN  
THIS PRODUCT TO  
YOUR RETAILER**

For warranty issues or for customer support:

CALL **218-282-5650** | EMAIL [SUPPORT@TACTACAM.COM](mailto:SUPPORT@TACTACAM.COM)

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