



# M.I.N.E.™ CAM

# I.C.E.™ CAM



at&t

## OPERATIONS MANUAL

VERSION 2.0

# WARRANTY

Limited Warranty: JAGER PRO™, LLC warrants the Product to be free from malfunctions and defects in both materials and workmanship for one (1) year from the date of purchase (“Warranty Period”). JAGER PRO™, LLC will repair or replace, at its option, the Product if it fails to function properly during the Warranty Period, subject to the conditions and/or limitations stated herein. Such repair or replacement is your sole remedy under this Limited Warranty.

Limitations: Limited Warranty service will not be provided unless the Product, returned in the manner set forth below, is accompanied by a copy of your original dated sales invoice. JAGER PRO™, LLC reserves the right to require you to provide your original dated sales invoice. Products purchased from non-authorized dealers may not qualify for warranty coverage.

Repair & Service: Please contact our Camera Support department at 1-706-718-9789 (EXT 3) or e-mail: [info@jagerpro.com](mailto:info@jagerpro.com) if this product requires repair or service. Troubleshooting may be required prior to authorization for warranted repair services. If service is recommended for your product, an RMA number and document will be provided. Additional terms and conditions may apply. If it is determined that your product does not qualify for warranty coverage, the following charges may or may not apply: Labor Hours, Parts, Materials, Estimate Services, Shipping and Handling.

This Limited Warranty does not cover the following:

- a. any defect in or damage to the Product that occurs due to mishandling of the Product;
- b. any defect in or damage to the Product that occurs due to repair, modification, or other similar activity after your purchase of the Product;
- c. any defect in or damage to the Product that occurs due to the transport, dropping, shock, or other similar activity after your purchase of the Product;
- d. any defect in or damage to the Product that occurs due to careless or improper storage, or improper use or maintenance of the Product;
- e. any defect in or damage to the Product that occurs due to foreign objects such as dirt or grime, sand, water or liquids entering the inside of the Product; and
- f. any defect to the Product related to your failure to follow proper operating instructions provided by JAGER PRO™, LLC, claims made after the Warranty Period, or your failure to follow the instructions set forth below with respect to return of the Product to JAGER PRO™, LLC.

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Notwithstanding any terms of this Limited Warranty to the contrary, no warranty coverage shall be provided for a Product purchased from, through, or with the assistance or involvement of any Internet auction web site. JAGER PRO™, LLC reserves the right to modify its warranties prospectively at any time, in its sole discretion.

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# CAMERA CHARACTERISTICS

This manual is intended to guide users through the individual steps to properly program, operate and maintain the AT&T version of our JAGER PRO™ M.I.N.E™ and I.C.E.™ Cameras on the data plan.



Front View

**1. Antenna:** Standard antenna shown receives cell tower signals. Our 5 decibel booster antenna is available as an accessory for operation in low signal areas.

**1a. Antenna Seal:** Prevents water from getting into the camera through the antenna port (see page 7).

**2. IR Illuminator:** 44 infrared LEDs that illuminate the target area when camera functions at night.

**3. Ambient Light Sensor:** Detects surrounding light to automatically control day and night camera functions. This sensor also emits a green, blinking LED when the selector switch is moved to **SETUP**. The LED will stop blinking within 10 to 20 seconds after the selector switch is moved from **SETUP** to **ON** indicating the camera is operational and active.

**4. Camera Lens:** The camera lens has a 52° field of view with no magnification. This enables users to observe a 20' field of view measured 15' from the lens and a 32' field of view when measured 21' from the lens.

**5. Microphone:** Picks up the ambient sounds around the camera.

**6. PIR Sensor:** Passive Infrared motion detector. Senses the presence of a moving object which triggers the camera to take a photo or record a video.

**7. Locking Latch:** Secures the camera front housing to the main body housing while providing a waterproof seal to internal components.



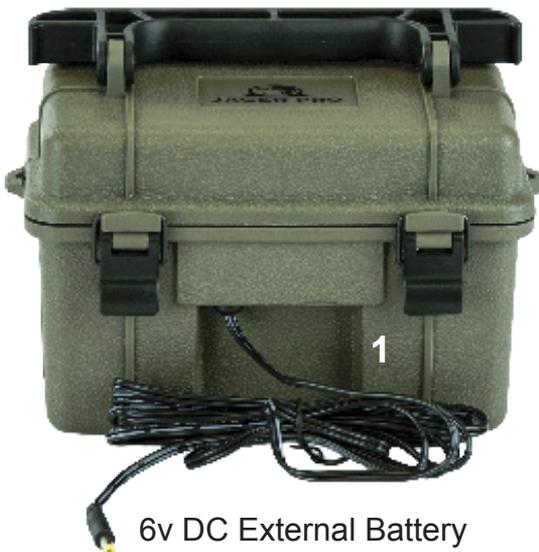
### Bottom Outside View

**1. USB Port Plug:** Waterproof seal to protect internal components when USB cable is not in use.

**2. Mounting Port:** 1/4 x 20 internal threads for securing camera to a T-Post mount. Only thread external devices two complete rotations into the camera mounting port then tighten using the mount's adjusting nut.

**WARNING!** Forcing external threads to the bottom will damage mounting port and camera housing.

**3. DC Port Plug:** Waterproof seal to protect internal components when external battery (optional equipment) is not in use.

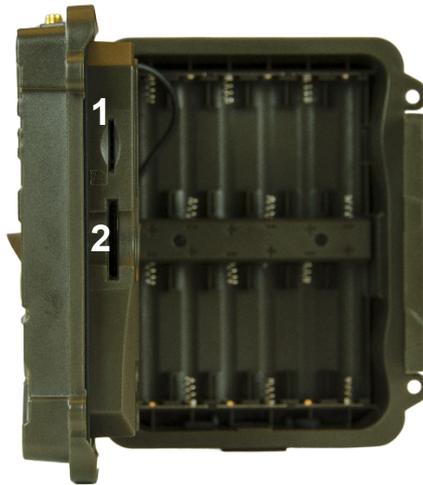


6v DC External Battery



## Inside View

- 1. Antenna Port:** Attachment point to install various antennas depending on local cellular strength. Our 5 db booster antenna is available as an accessory for operation in low signal areas.
- 2. Display:** A 2" screen to view menus, photos and settings.
- 3. Selector Switch:** Used to enter into any of the three operating modes: **OFF**, **SETUP** and **ON**.
- 4. Menu Button:** Used to select various camera options.
- 5. Playback Button:** Allows user to view pictures on SD card.
- 6. Del Button:** Deletes unwanted pictures, numbers, and letters.
- 7. DC Port:** 6 volt connection for external battery optional battery pack.
- 8. USB Port:** Standard USB cable connection interface to transfer information between the camera and a computer.
- 9. Move Left Button:** Moves from the highlighted area to a selection left.
- 10. Move Up Button:** Moves from the highlighted area to a selection above.
- 11. Move Right Button:** Moves from the highlighted area to a selection right.
- 12. Move Down Button:** Moves from the highlighted area to a selection below.
- 13. OK Button:** Selects the highlighted item.
- 14. Battery Polarity Symbols:** Located on the front of the battery tray. Aids in 12 proper battery polarity and installation.



## Left Side View

**1. SIM Card Port:** Slot for receiving a cellular SIM card from GSM network providers such as AT&T and T-Mobile.

**2. SD Card Port:** Slot for receiving an SD card. The camera has no internal memory. A 32GB or smaller SD card must be used to store photos, video and data.

**Warning!** Inserting the memory card upside down or backwards could damage the camera or the memory card. Damage resulting from inserting the card incorrectly is not covered under warranty.

## QUICK START PROGRAMMING

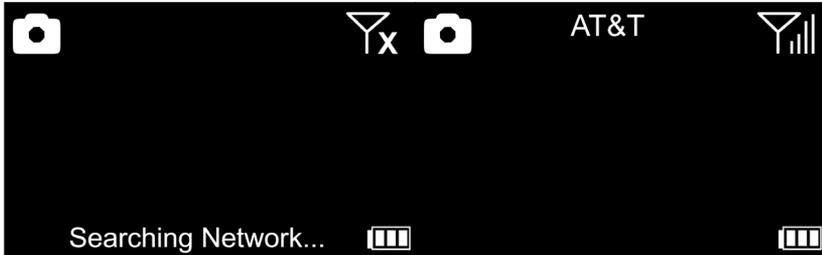
Begin programming the M.I.N.E™ Camera for operation by removing the red or yellow shipping plug and replacing the antenna seal if it came off with the shipping plug. **Damage resulting from not having the antenna seal present is not covered under warranty.** Twist the antenna base snug but do not over tighten.

Unlock the full length locking latch to access the main body. Follow the battery polarity symbols located on the front of the battery tray to properly install 12 each batteries. We only recommend Energizer brand AA Lithium batteries for the best performance in the field. Alkaline or rechargeable AA batteries will not operate high-tech equipment nearly as long.

**Warning!** Do not mix battery types! Damage to the camera can result and your warranty will be voided if you mix battery types.

The camera will function in emergency situations using only four AA Lithium batteries in the two left columns, two center columns, or two right columns. We recommend our 6 volt external power supply for extended, long-term camera use in the field. AA Lithium batteries are still required for initial start up until the camera housing is closed and the 6 volt external power supply

cable is inserted into the camera battery port. The camera supports up to a 32 GB SD card. Insert an activated SIM card into SIM card port with the notch located in the top-right corner. Ensure SD card is not locked and insert it into the SD card port. Move the selector switch from **OFF** to **SETUP**.



The screen will display “Searching Network” at the bottom center of the screen. It usually takes 20 to 30 seconds for the camera to find the network. AT&T will appear in the top center of the screen after connecting to the network and the signal strength symbol will appear in the top right.

## MAIN MENU TABS

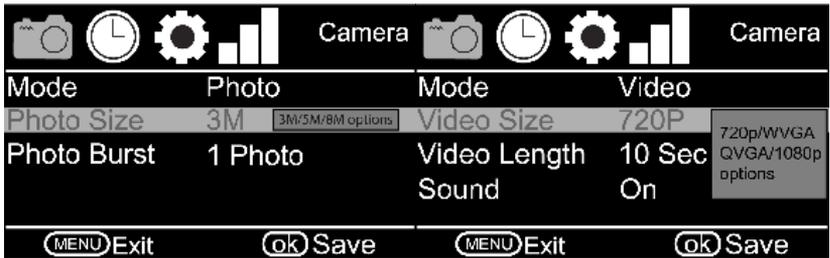
Press the **MENU** button to access the program display. The camera will shut down after 3 minutes sitting idle to conserve battery power. Users must move the selector switch to **OFF** then **SETUP** again to restart the camera and access **MENU**.

Press the **MENU** button to access the program display. From left to right The four main menu tabs are; **CAMERA**, **TRIGGER**, **SYSTEM** and **WIRELESS**. Press the left or right buttons to change tabs. Press the up or down buttons to cycle through the submenu settings of the highlighted green tab. Press left or right to select items with green highlights to edit and view choices. Press **OK** to save the new setting. Press up or down to view the next setting. Press **MENU** and return to the top of the MENU tab before able to move left or right to view or change another highlighted tab.

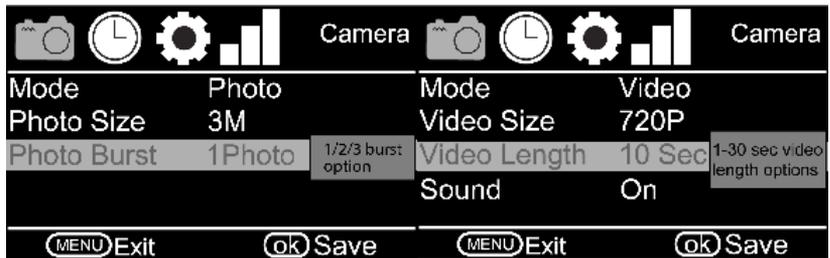
### Camera Tab:



• **Mode:** Choose **Photo** or **Video**. (Recommend Photo for immediate information sent to phone. **The camera is not capable of sending any type of video! It must be downloaded off the SD card and viewed from a computer**)



- **Photo Size:** Choose the image size; **3MP**, **5MP**, or **8MP**.
- **Video Size:** Choose the video size; **720p**, **WVGA**, **QVGA**, **1080p**.



- **Photo Burst:** Choose the number of pictures taken consecutively after each triggering. (**Recommend 1 Photo**), selecting 2 or 3 will take two or three photos but only send the last photo of the group taken.
- **Video Length:** Choose how long the video will be in size between 1 and 30 seconds. (**The camera is not capable of sending any type of video! It must be downloaded off the SD card and viewed from a computer**)



- **Burst Interval:** Choose between one or half second delay between pictures.
- **Sound:** Choose between **On** or **Off**. Turning this on will record audio.

# Trigger Tab:

Trigger		Trigger	
Sensitivity	High	Sensitivity	Normal
Trigger interval	1Min	Trigger interval	1Min
Time Lapse	Off	Time Lapse	Off
Start-Stop1	Off	Start-Stop1	Off
Start-Stop2	Off	Start-Stop2	Off
Exit		Save	

Off/High/Normal options

## • Sensitivity- Passive Infrared (PIR) Trigger Sensitivity

**High:** The most sensitive setting and will trigger camera operation when any movement is detected.

**Low:** The least sensitive setting used when foliage, wind or shadows trigger excessive photos.

**Normal:** Average sensitivity. **(Recommended)**

Trigger		Trigger	
Sensitivity	Normal	Sensitivity	Normal
Trigger interval	2 Min	Trigger interval	2 Min
Time Lapse	Off	Time Lapse	Off
Start-Stop1	Off	Start-Stop1	Off
Start-Stop2	Off	Start-Stop2	Off
Exit		Save	

0-59 sec or 1-60 min option  
0:30-55 sec/1-59 min 1-8 hour options

• **Trigger Interval-** The timeout period between PIR triggers for each photo or video capture. **We recommend a two minute trigger interval.** A one minute selection may not allow a photo to transmit via data in low signal areas before the next PIR trigger. The photo is always saved on the SD card but may not have time to send via data to your phone or email.

## • Time Lapse

**OFF:** Camera triggers only during PIR event. **(Recommended)**

**ON:** Camera automatically triggers at selected intervals between 30 seconds to 8 hours..

Trigger		Start-Stop1(2)	
Sensitivity	Normal	Start HM	Hour: Minutes
Trigger interval	2 Min	Stop HM	Hour: Minutes
Time Lapse	Off	Trigger Interval	0 Sec
Start-Stop1	On	Time Lapse	Off
Start-Stop2	Off		
Exit		Save	

0-55 sec/1-60 min options  
Off/30-55 sec/1-59 min /1-8 hour options  
Trigger interval and Time Lapse disabled when on

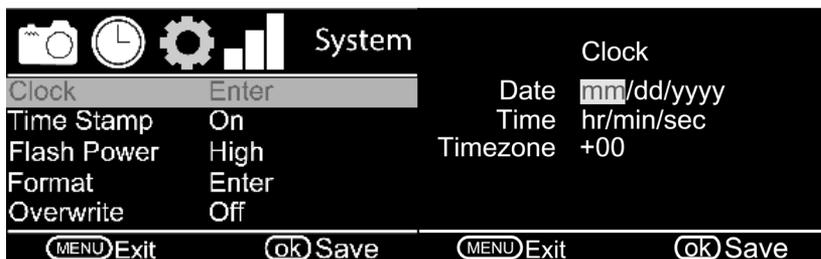
## • Start - Stop

**OFF:** Camera triggers 24 hours per day.

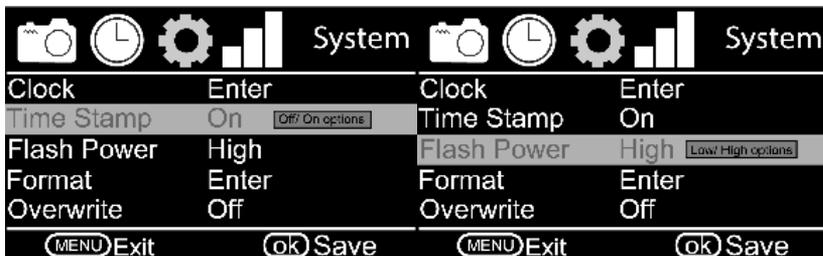
**ON:** Camera only triggers between the **START** and **STOP** times

programmed. Could be used to avoid high traffic from non-target species during specified times. Since there are two Start- Stop times available, ensure the programmed times do not overlap.

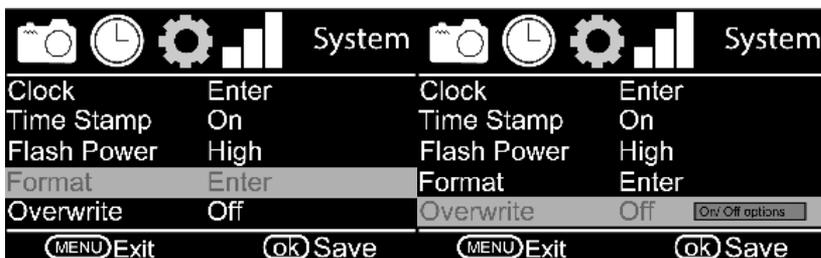
## System Tab:



- **Set Clock:** Enter correct Date and Time. Add in UTZ for proper updates  
**NOTE:** The camera will automatically update to your time zone once it is set up on our wireless website.

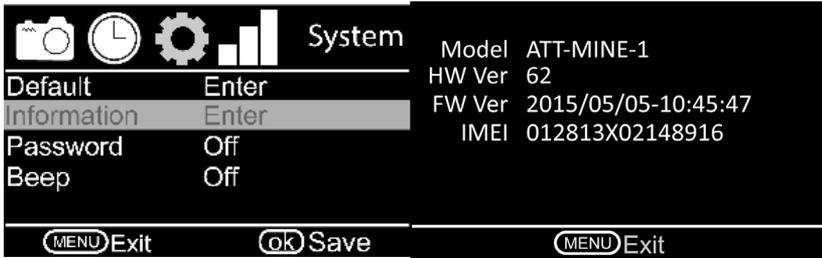
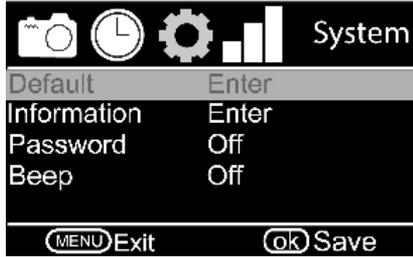


- **Time Stamp:** Choose **ON** or **OFF** to select the date and time stamp on the picture.
- **Flash Power:** Choose between Low or High. We recommend High to extend infrared illumination beyond trap.

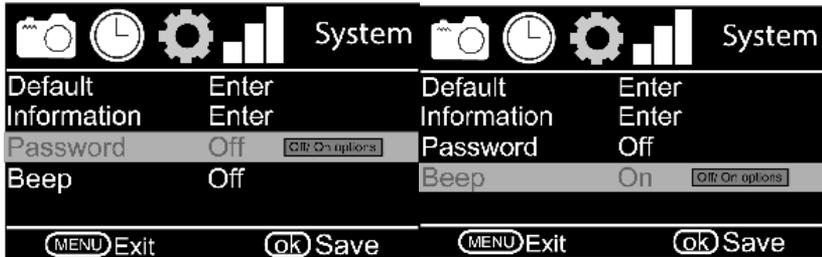


- **Format:** Formats the SD card and deletes all photos/videos.
- **Overwrite**
  - OFF: (Recommended)** Retains saved photos and videos on SD card when full. **Warning: Camera will stop working when SD card is full.**
  - ON:** Camera deletes the oldest photos/videos from SD card when full and continues to save newer photos/videos.

• **Default:** Restores camera back to factory settings.



• **Information:** Displays model, hardware version, firmware version of camera and the IMEI number. Check our website for the latest firmware version and uploading instructions.



• **Password:** The default password is 000000. Choose **OFF** to stop this function and **ON** to set a six digit password.

• **Buzzer:** The default is **ON**. Choose **OFF** to silence key pad when making selections.

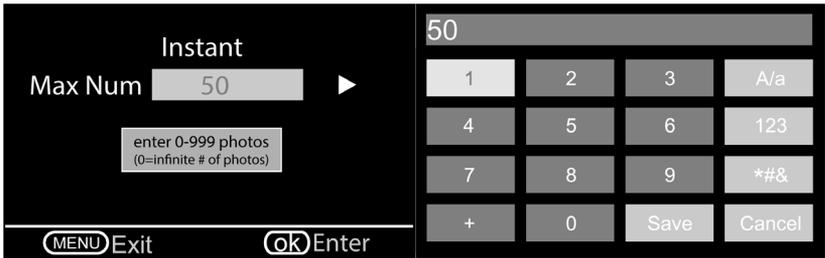
## Wireless Tab:

### • **Send Mode**

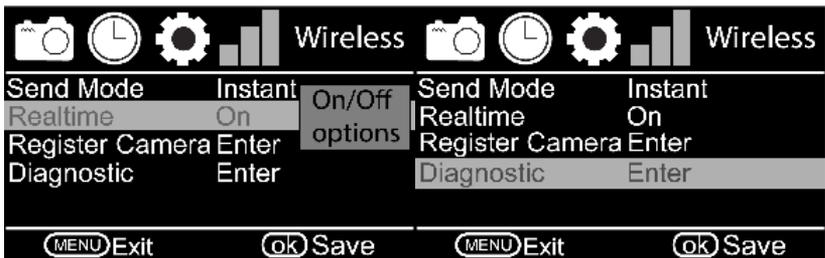
**Instant: (Recommended)** The camera sends a photo immediately when it takes a photo.

**Off:** Sending and receiving is deactivated. Photos will not be sent to a recipient but will be saved to the SD card.



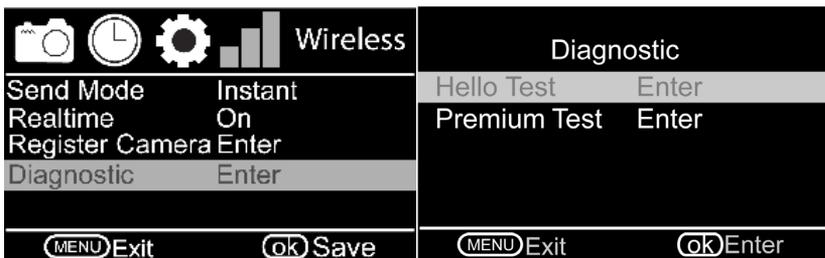
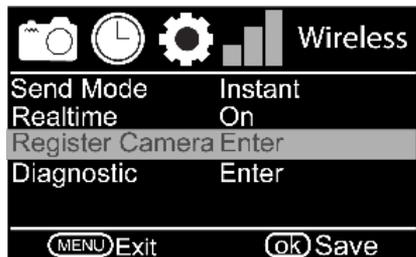


The **Max Num** field indicates the maximum number of photos or texts allowed to be sent within 24 hours. Pressing the right arrow will open the keypad to make changes. Select **SAVE** to return to Max Num and **OK** to return to Instant. **0** is infinite and the recommended setting. The camera resets to zero each night at 00:00 hours.



**Realtime:** The Realtime function must be **ON** for the camera to send and receive commands from the selected recipients.

**Register Camera:** Pressing **OK** will start the registration process. You will receive a confirmation with your IMEI number and registration code. More information can be found in our **Registering Camera** section on page 14.



**Diagnostic:**

- **Hello Test:** This will verify that your camera is activated, has a signal and can reach the internet and the Server.

• **Premium Test:** Once you input at least one recipient, this test will verify that it can contact the server and send a test email to each of your configured recipients. This only applies to email address', not phone numbers.

## MANUALLY SENDING PHOTO

Our AT&T camera is designed to test program settings and IMEI service by manually sending a photo. Move the selector switch from **OFF** to **SETUP**. Allow the camera 30 seconds to search the wireless AT&T network. AT&T will appear in the top center of the LCD screen after connecting. Press the **OK** button to immediately capture a photo. Press the **OK** button again to upload the image to the network by following the camera program settings. The automatic commands displayed in the bottom center of the LCD screen are "Setting", "Sending" followed by "Sent". This process should take approximately 20 seconds to upload and send the photo from the camera and another 10 seconds to receive the photo as a data photo to a programmed phone when the signal is strong.

## REGISTERING YOUR AT&T CAMERA

Visit our website at [jagerpro.com](http://jagerpro.com)

Create a new user or log in.

Register your camera by entering the appropriate information.

Purchase a plan.

Once you receive your confirmation email, follow those instructions listed on the email to complete the registration process of your camera.

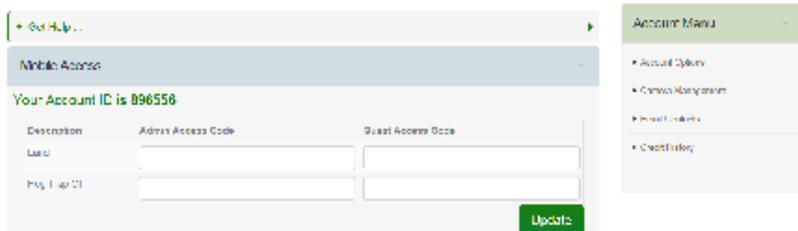
Go to our website [www.jagerprowireless.com](http://www.jagerprowireless.com) and input your camera IMEI number and registration code. Follow the on screen instructions and watch our video "Setting up your AT&T Camera" for complete details.

## APPLICATION DOWNLOAD



Once your camera has been activated on the [jagerprowireless](http://jagerprowireless.com) website, make sure you go to "My Cameras" and open up "Mobile Access".

## Mobile Access



Give your camera an Admin Access Code and a Guest Access Code, you will need these to authenticate your camera with your mobile app.

For Android, visit your google play store and search for JAGER PRO™ Wireless.

For Apple, visit your App Store and search for JAGER PRO™ Wireless.

Download the appropriate app with our logo. You will have to register your camera, turn off WiFi setting and download photos for your app to work with the server and your camera.

## LOGIN FAIL CORRECTIVE ACTION

Users should always test their camera at a new location prior to erecting a feeder or a trap enclosure. Move the selector switch from OFF to SETUP. The screen will display “Searching Network”. Allow approximately 20 to 30 seconds for the camera to acquire a cellular signal. If the camera does not automatically connect to the cellular network within 60 seconds, the standard antenna is not sufficient at this location and the camera will be unable to send photos. Our five decibel booster antenna mounted to a 16 foot long telescoping antenna will be necessary for remote cellular operation in low signal areas.

Drive a 7 foot long T post into the ground approximately 12 inches to the right and rear of the camera post. Attach our booster antenna with mount to a 16 foot long telescoping pole using U-bolts or zip ties. Secure the antenna cable to the telescoping pole in multiple locations to eliminate cable noise from wind.

Remove the standard antenna. Carefully thread the booster antenna cable to the antenna port and tighten. Slide the rubber waterproof boot over the booster antenna cable connector.



# PAIRING M.I.N.E. CAMERA TRANSMITTER TO CONTROL BOX RECEIVER

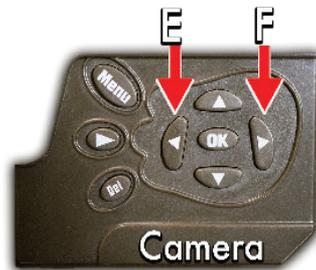
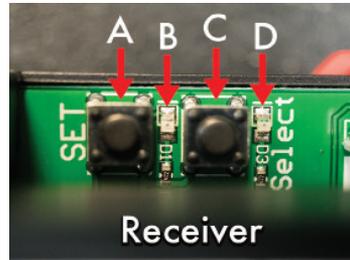
**NOTICE** The most efficient way to pair M.I.N.E. Camera with control box receiver is to conduct these steps before mounting camera to

**THIS STEP IS ONLY A FUNCTION OF THE M.I.N.E.™ CAMERA.  
THE I.C.E.™ CAMERA DOES NOT UTILIZE AN INTERNAL  
TRANSMITTER.**

The M.I.N.E.™ Camera has an internal transmitter on the circuit board and must be located within 50 yards of the M.I.N.E.™ Gate to operate correctly. Users must manually pair camera transmitter signal to each control box receiver the first time they are linked together. It is not necessary to pair camera transmitter to receiver more than one time.

## Pairing Steps:

1. Press and release “frequency select” button (C) and red light (B) will flash either three times or five times. Press and release “frequency select” button (C) until red light (B) only flashes three times.
  2. Move camera selector switch from OFF to Setup.
  3. Press and release “pair to transmitter” button (A) and red light (B) will illuminate for 15 seconds. Users have only 15 seconds to complete step 4 once step 3 has been initiated.
  4. Press and release camera “left arrow” (E) then press and release camera “right arrow” (F) to send a manual RF signal to control box receiver. **RF Trigger** will appear at bottom of camera screen. Red receiver light (B) should flash five times then no longer illuminate.
  5. Ensure M.I.N.E. Camera and receiver are paired. Press and release camera “left arrow” (E) then press and release camera “right arrow” (F) button while observing green light (D) illuminates. Test successful.
- NOTE: This procedure will activate actuator and release gate.



**! WARNING** **CRUSH HAZARD:** Stand clear of gate as it could cause bodily harm! Ensure safety clip is installed if gate is in the UP position.

# CAMERA DEPLOYMENT

Align the 1/4 by 20 threads of the T-Post mounting bracket to the camera mounting port. Thread the mounting bracket no more than three complete rotations into the camera mounting port. Then tighten using the adjusting nut.

**NOTE:** Forcing external threads to the bottom will damage the camera mounting port and the camera housing.

**WARNING!** Never mount the M.I.N.E.™ Cam on the same T post securing a trap panel or severe damage may result. Always mount the M.I.N.E.™ Cam on a separate 8 foot long T post at least 12 to 24 inches outside the trap enclosure. Lower the square collar at a diagonal over the T post spine and studs, then lower into position between two studs. Insert the mounting wedge between the T post spine and square collar. Install the thumbscrew into the 1/4 by 20 threads on the mounting wedge. Tighten the thumbscrew against the T post spine to secure the camera mount.

Users are able to receive a wider field of view by mounting the camera at a higher elevation. Lower the square collar at a diagonal over the T post spine and studs, then lower into position between two studs. Insert the mounting wedge between the T post spine and square collar. Install the thumbscrew into the 1/4 by 20 threads on the mounting wedge. Tighten the thumbscrew against the T post spine to secure the camera mount.

When mounting using the higher elevation method, it is easier to attach the booster antenna (if needed) to the camera while on the ground. Remove the standard antenna from the camera's antenna port. Carefully thread the booster antenna cable to the antenna port and tighten. Slide the rubber waterproof boot over the booster antenna cable connector.

Drive a second 7 foot long T post into the ground approximately 12 inches to the right and rear of the camera T post to attach the antenna pole. Secure the 8 foot long T post with camera to the 7 foot long T post using zip ties. The higher camera elevation will allow the booster antenna to exceed 20 feet by elevating and securing the telescoping pole to the T post with zip ties.

Standing on a step ladder, align the M.I.N.E.™ Cam by loosening the ball head set screw and centering the camera's view to the ground beneath the feeder legs. Tighten the ball head set screw to secure the camera's position. If possible, set up the camera so that no large trees or objects are in the main field of view of the camera. As it can adversely affect motion detection as well as night time flash range.

Move the selector switch from **OFF** to **SETUP**. The screen will display "Searching Network". The camera has successfully acquired a cellular signal when the service provider's initials appear on the display. Move the selector switch from **SETUP** to **ON**. Close and latch the camera within 10 seconds before the Ambient Light Sensor LED stops blinking green and the PIR

triggers a photo. The M.I.N.E.™ Cam is now operational and active.

Ensure the camera PIR triggers and sends a photo to your cell phone. This step will verify the camera is positioned and programmed correctly. Ensure the feeder is centered and the entire gate opening is visible.



From left to right- JAGER PRO™ is the camera manufacturer. The “M” indicates the photo was triggered by “Motion”. The letter “S” would indicate a photo triggered by **Take Photo Now** from your mobile app or code **\*500#**. “T” would indicate a photo triggered by “Time Lapse” and “E” would indicate a manually triggered photo using the camera’s **OK** select button during **SETUP** or an event triggered from the server.

The date is May 07 2015. The time is 21:24 or 9:24 in the evening. It is a waning gibbous. Moon Phases displayed include: (new moon), (waxing crescent), (first quarter), (waxing gibbous), (full moon), (waning gibbous), (last quarter), and (waning crescent). The temperature is 84 degrees Fahrenheit. The battery symbol is “P5” which indicates the batteries are fully charged.

The final step is to register your new equipment on the JAGER PRO™ website via the camera MEID number so we may provide appropriate firmware updates. These updates are necessary to ensure your equipment operates efficiently as network wireless technology changes. Multiple cameras and control boxes may be registered on a single submission by following directions in your Quick Start Guide.

## CARE AND MAINTENANCE

**Firmware Updates:** You should also periodically check the JAGER PRO™ website for firmware updates for your camera. We periodically release firmware updates with new features and/or performance enhancements. Firmware updates can be done on our JAGER PRO™ wireless website and will automatically download to your camera. Updating firmware on the M.I.N.E.™ Series cameras takes just a few seconds, and is well worth the effort to ensure your camera is performing at the highest level possible.

If during this period, through normal use, a hardware product becomes defective due to defects in materials or workmanship, JAGER PRO™ will either repair or replace the product. This warranty is void if a product failure results from accident, abuse, improper use by Buyer, disassembly, or unauthorized maintenance and repair.

**Repair or Replacement:** Buyer must obtain a Return Merchandise Authorization (RMA) number from JAGER PRO™ before returning any product(s) for repair or replacement. If JAGER PRO™ concludes that a returned product is not defective, Buyer will be notified, the product will be returned to Buyer at Buyer's expense, and Buyer may be charged for examination and testing of the product.

This limited warranty is the sole warranty for hardware and software products offered by JAGER PRO™ and JAGER PRO™ shall not be liable for any amounts for said products except in compliance with this warranty.

**Avoid Strong Magnetic Fields:** Never place the camera in close proximity to electric motors or other equipment generating strong electromagnetic fields. Exposure to strong magnetic fields may cause malfunctions or corrupt image data.

**Avoid Condensation:** Moving the camera rapidly between hot and cold temperatures may cause condensation (water droplets) to form on its external and internal surfaces. You can avoid this by placing the camera in an airtight, plastic bag and letting it adjust to temperature changes slowly before removing it from the bag. Stop using the camera immediately if you detect condensation inside the camera. Continued use may damage the camera. Remove the memory card and batteries from the camera and wait until the moisture evaporates completely before resuming use.

### Warnings

- Store this equipment out of the reach of children and infants. Accidental damage to the camera or batteries by a child could result in serious injury.
- Do not allow water or other liquids to enter the interior of the camera. The interior has not been waterproofed. If the exterior comes into contact with liquids or salt air, wipe it dry with a soft, absorbent cloth. In the event that water or other foreign substances enter the interior, immediately turn the camera's power off and remove the camera batteries. Continued use of

the equipment may result in fire or electrical shock. Please contact JAGER PRO™ Technical Support.

- Use of power sources not expressly recommended for this equipment may lead to overheating, distortion of the equipment, fire, electrical shock, or other hazards. Use only the recommended power sources. Any use of non-JAGER PRO™ power sources will void the warranty on your camera.
- Do not mix battery types. We recommend Energizer Ultimate Lithium batteries for your camera. **NEVER MIX BATTERY TYPES!** Damage to the camera can result and your warranty will be voided if you do so.
- Do not place the batteries near a heat source, expose them to direct flame or heat, or immerse them in water. Such exposure may damage the batteries and lead to the leakage of corrosive liquids, fire, electrical shock, explosion, or serious injury.
- Do not attempt to disassemble, alter, or apply heat to the batteries. There is serious risk of injury due to an explosion. Immediately flush with water any area of the body or clothing that comes into contact with the inner contents of a battery. If the eyes or mouth contact these substances, immediately flush with water and seek medical assistance.
- Avoid dropping or subjecting the batteries to severe impacts that could damage the casings. It could lead to leakage and injury.
- Do not short-circuit the battery terminals with metallic objects, such as key holders. It could lead to overheating, burns, and other injuries.
- Use of batteries not expressly recommended for this equipment may cause explosions or leaks, resulting in fire, injury, and damage to the surroundings. Use only recommended batteries and accessories.
- Avoid using, placing, or storing the equipment in places subject to strong sunlight or high temperatures, such as the dashboard or trunk (boot) of a car. Exposure to intense sunlight and heat may cause the batteries to leak, overheat or explode, resulting in fire, burns or other injuries. High temperatures may also cause deformation of the casing.
- Damage occurred from not having the waterproof antenna seal present is not covered under the warranty.
- Be careful not to bang the camera or subject it to strong impacts or shocks that could lead to injury or damage the equipment.
- When using desiccant, the following precautions should be followed: Keep out of reach of children, do not eat, and do not inhale desiccant dust. If the desiccant packet tears or breaks, wash your hands if they come in direct contact with the desiccant. Desiccant may cause eye, skin, and mucous membrane irritation. Prolonged inhalation may cause lung damage. Asthma can be aggravated by exposure to desiccant.
- If you know or suspect desiccant has been ingested, seek medical assistance for further treatment, observation, and support if necessary. For eye contact, flush with water for at least 15 minutes. For skin contact, wash affected area with soap and water. For inhalation of desiccant dust, move affected person into an environment with fresh air. For accidental ingestion, drink at least two glasses of water.
- Check your state/local laws concerning the use of this product.

### Exterior:

1. Inspect the outside of the camera body for any cracks which may cause water or moisture to damage electronics.
2. Check for condensation in the IR LED bank.
3. Ensure the antenna is not loose, bent, broken or cracked, and the antenna seal is present.
4. Wipe excess dirt from camera lens with a soft cloth and use a moist cotton swab with rubbing alcohol to thoroughly clean.
5. Apply even pressure to camera face and main body housing when closing to ensure proper alignment of waterproof seal.
6. Ensure the latch is tightly securing the camera housing.
7. Clean inside the ambient light sensor port and PIR cover.
8. Inspect the DC and USB port covers for dry rot and damage.



**WARNING!** The DC Port plug must be removed before accessing camera functions. Opening the camera while the external battery is plugged into the housing port may result in damage to both the camera and the external battery.

**WARNING!** Removing screws from internal camera ports will damage electronic components and void the warranty.

# CAMERA ACCESSORIES

JAGER PRO™ offers several items for the M.I.N.E.™ Cam to increase the versatility and function of the camera. These items may be purchased from your local dealer or online at [jagerpro.com](http://jagerpro.com).

## **External 5 db Booster Antenna**

This antenna is designed for areas where cellular coverage is weak and enables users to expand the usable range of the M.I.N.E.™ Cam.

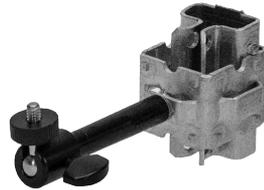
- 5 db gain for remote areas
- 2.5 feet mast allows for higher vertical reach in terrain such as valleys and thick tree cover
- 10.5 feet coaxial cable is designed for high quality signal transmission while providing flexibility to mount on a 16' tall telescoping pole.



## **T- Post Camera Mount**

Allows the M.I.N.E.™ Cam to easily mount in remote locations and above trap panels using a T-Post.

- Aluminum and steel construction for strength and durability
- Ball head allows the camera to be quickly aimed with precision



## **6V Battery Box**

This rugged weather resistant battery box contains a 6V sealed lead acid battery, an AC charger and strap for long and durable performance of the M.I.N.E.™ and I.C.E.™ Cameras.

- 8 foot long outdoor cable for maximum charging flexibility.
- Hanging strap for mounting convenience.



# GLOSSARY

**CDMA**- Code Division Multiple Access is a competing cell phone service technology to GSM, which is the world's most widely used cell phone standard. Sprint, Verizon, and Virgin Mobile use CDMA.

**GPRS**- General Packet Radio Service was early technology to enable data communication on GSM networks. It has since been replaced by better data technologies such as EDGE and 3G. It is based on GSM and compliments SMS.

**GSM**- Global System for Mobile communications. Cell phones use a cellular provider's GSM network by searching for cellular phone towers in the nearby area. GSM has more complete global coverage due to roaming and international roaming contracts. AT&T and T-Mobile use GSM.

**IMEI**- International Mobile Station Equipment Identity. A number, usually unique, to identify GSM cellular devices.

**MEID**- Mobile Equipment Identity. A globally unique number identifying a physical piece of CDMA mobile station equipment.

**MMS**- Multimedia Messaging Service. Takes SMS text messaging a step further by allowing for longer lengths beyond the traditional 160-character SMS limit.

**PIR**- Passive Infrared. A PIR sensor does NOT detect or measure "heat". It detects the infrared radiation emitted from an object to detect motion. It triggers the camera to take a photo or video when an object passes in front of the sensor.

**SIM**- Subscriber Identity Module. A small card used in GSM devices to identify your account to the cellular carrier. Users may change SIM cards between cameras and the phone number and data plans transfer with it.

**SMS**- Short Message Service. SMS is also often referred to as texting, sending text messages or text messaging. The service allows for short messages to be sent from one cellular device to another cellular device or from the Internet to a cellular device.

**SMTP**- Simple Mail Transfer Protocol is an internet standard for electronic mail (e-mail) transmission across Internet Protocol (IP) networks. SMTP was first defined by RFC 821 (1982, eventually declared STD 10) and last updated by RFC 5321 (2008) which includes the Extended SMTP (ESMTP) additions and is the protocol in widespread use today.

## COMMAND CODE LIST

Ensure the REALTIME control is **ON** in order for the camera to receive commands. The M.I.N.E™ Cam is able to receive commands to perform these 11 different functions remotely. All recipients have the ability to send and receive commands to control the camera.

- **Change Send Mode: Instant** \*140#0#
- **Change Send Off** \*140#2#
- **Change Camera Mode: Photo** \*200#0#
- **Change Camera Mode: Video** \*200#1#
- **Take a Photo and Send Now** \*500#
- **Status Report** \*501#

**Response:** Camera Status Report from VZW001

Image From:VZW001

Module ID:A000004F99BEED

Model:VZW-JP

Battery Level:5

Voltage:5.7v

Signal Strength:3

SD Total Size:7572MB

SD Free Space:7472MB

Temperature:102F

Firmware:2015/05/05-10:45:47

- **Set PIR Level to High** \*202#0#
- **Set PIR Level to Normal** \*202#1#
- **Set PIR Level to Low** \*202#2#
- **Set PIR Level to Off** \*202#3#
- **Close M.I.N.E.™ Gate** \*777#

JAGER PRO™ offers a complete line of Hog Control Products, Services and Education

View our instructional video series online at:

[www.youtube.com/JAGERPRO](http://www.youtube.com/JAGERPRO)

**You Tube**

**JAGER PRO Channel**

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