



M.I.N.E.™ CAM



OPERATIONS MANUAL

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 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.

All other express and implied warranties for the product, including the implied warranties of merchantability and fitness for a particular purpose are hereby disclaimed. JAGER PRO, LLC expressly disclaims all warranties not stated in this warranty. Any implied warranties that may be imposed by law are limited in duration to the terms of this express limited warranty. Some jurisdictions do not allow the exclusion of implied warranties or limitations on how long an implied warranty lasts, so the above exclusions or limitations may not apply to you. In no event will JAGER PRO, LLC be liable to you, or any third party, for any damages in excess of the purchase price of the product. In addition, JAGER PRO, LLC shall in no event be liable to you, or any third party, for any direct or indirect damages or other special, incidental, exemplary or consequential damages arising out of the use or inability to use the product. Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages for some products, so the exclusions or limitations may not apply to you. This limited warranty gives you specific legal rights, and you may also have other rights which may vary from jurisdiction to jurisdiction.

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.

TABLE OF CONTENTS

Camera Characteristics.....	04
Quick Start Programming.....	07
Main Menu Tabs.....	08
Camera Tab.....	09
Trigger Tab.....	10
System Tab.....	11
Wireless Tab.....	12
Manually Sending Photos.....	15
SMS Command Codes.....	16
LOGIN Fail Corrective Action.....	17
Timing Camera Transmitter to Control Box Receiver....	18
Camera Deployment.....	19
Care and Maintenance.....	21
Accessories.....	22
Purchasing a SIM Card.....	23
Replenishing a SIM Card.....	23
Glossary.....	24
SMS Command Code List.....	25



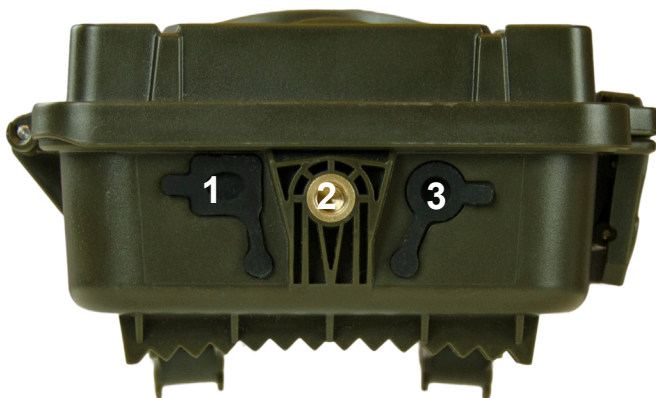
CAMERA CHARACTERISTICS

This manual is intended to visually guide users through the individual steps to properly program, operate and maintain the 3G GSM version of our JAGER PRO M.I.N.E™ and I.C.E.™ Cameras.



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.
- 2. IR Illuminator:** 44 infrared LEDs that illuminate the target area when camera functions at night.
- 3. Camera Lens:** The camera lens has a 52 degree 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.
- 4. 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.
- 5. Ambient Light Sensor:** Detects surrounding light to automatically control day and night camera functions. This sensor also emits a red, blinking LED when the selector switch is moved to **SETUP**. The LED will stop blinking within 10 seconds after the selector switch is moved from **SETUP** to **ON** indicating the camera is operational and active.
- 6. Locking Latch:** Secures the camera front housing to the main body housing while providing a waterproof seal to internal components.



Bottom Outside View

- 1. DC Port Plug:** Waterproof seal to protect internal components when external battery (optional equipment) 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. Forcing external threads to the bottom will damage mounting port and camera housing.
- 3. USB Port Plug:** Waterproof seal to protect internal components when USB cable is not in use.

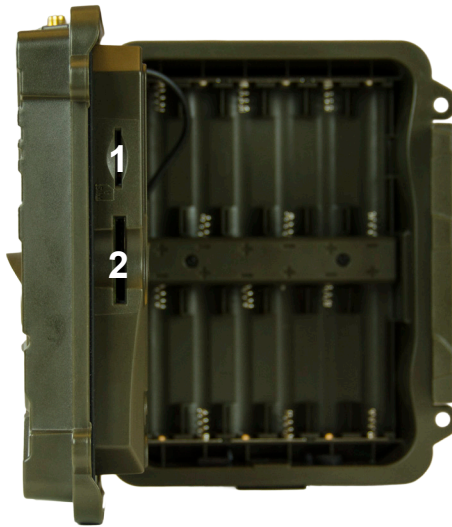


6v DC External Battery



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:** Screen to observe 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. Move Left Button:** Moves from the highlighted area to a selection left.
- 6. Move Up Button:** Moves from the highlighted area to a selection above.
- 7. Move Right Button:** Moves from the highlighted area to a selection right.
- 8. Move Down Button:** Moves from the highlighted area to a selection below.
- 9. OK Button:** Selects the highlighted item.
- 10. DC Port:** 6 volt connection for external battery optional battery pack.
- 11. USB Port:** Standard USB cable connection interface to transfer information between the camera and a computer.
- 12. Battery Polarity Symbols:** Located on the front of the battery tray. Aids in 12 proper battery polarity and installation.
- 13. Playback Button:** Allows user to view pictures on SD card.
- 14. Del Button:** Deletes unwanted pictures, numbers, and letters.



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. An SD card smaller than 32GB must be used to store photos, video and GSM data.

QUICK START PROGRAMMING

Begin programming the M.I.N.E.™ Camera for operation by removing the protective cap and installing the standard antenna onto the antenna jack. Ensure the black rubber O-ring is not removed from the antenna jack threads. 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.

The camera will function in emergency situations using only four AA Lithium batteries in the two left 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.

Insert an activated SIM card into the SIM card port with the notch located in the top right-hand corner. A formatted SD card must be used for the camera to function. Move the selector switch from **OFF** to **SETUP**. The camera will

immediately power OFF after the logo is displayed.

The camera supports up to a 32 GB SD card. Ensure the 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 or T-Mobile 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.



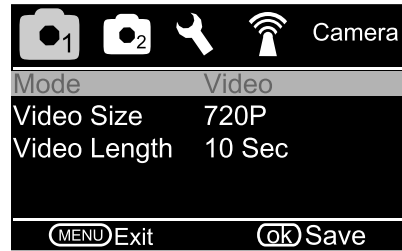
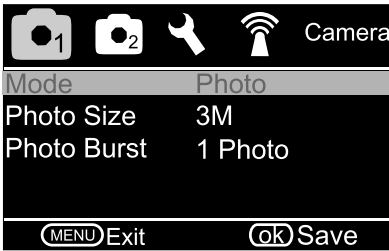
MAIN MENU TABS

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**.

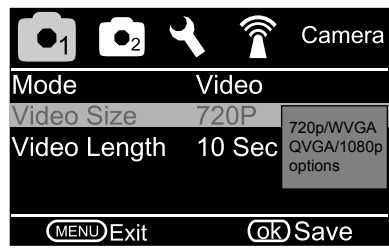
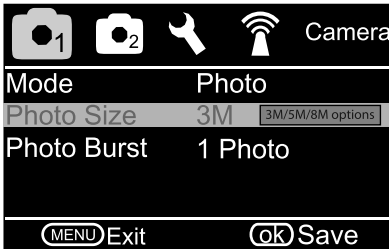


Press the **MENU** button to access the program display. There are four main menu tabs; **CAMERA**, **TRIGGER**, **SYSTEM** and **WIRELESS**. Press the left or right buttons to change tabs. Press the up or down buttons to cycle through the submenu settings of the highlighted green tab. Press left or 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.

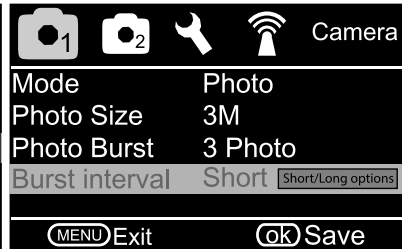
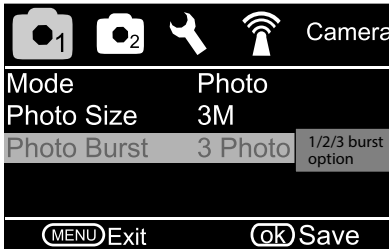
Camera Tab:



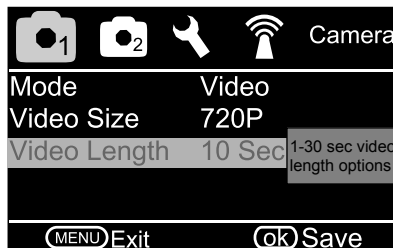
- **Mode:** Choose **Photo** or **Video**. (Recommend Photo for immediate text information sent to phone.)



- **Photo Size:** Choose the image size; **3MP**, **5MP**, or **8MP**.
- **Video Size:** Choose the video size.



- **Photo Burst:** Choose the number of pictures taken consecutively after each triggering. (Recommend 1 Photo)
- **Burst Interval:** Choose between one or half second delay between pictures.



- **Video Length:** Choose how long the video will be in size between 1 and 30 seconds.

Trigger Tab:

Trigger	
Sensitivity	High
Trigger interval	1Min
Time Lapse	5Min
Start-Stop1	Off
Start-Stop2	Off
(MENU) Exit (OK) Save	

Trigger	
Sensitivity	High <small>Off/High/Normal Low options</small>
Trigger interval	1Min
Time Lapse	5Min
Start-Stop1	Off
Start-Stop2	Off
(MENU) Exit (OK) Save	

• 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	
Sensitivity	High
Trigger interval	1Min <small>0-59 sec or 1-60 min option</small>
Time Lapse	5Min
Start-Stop1	Off
Start-Stop2	Off
(MENU) Exit (OK) Save	

Trigger	
Sensitivity	High
Trigger interval	1Min
Time Lapse	5Min <small>Off/30-55 sec/1-59 min 1-8 hour options</small>
Start-Stop1	Off
Start-Stop2	Off
(MENU) Exit (OK) Save	

• **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 SMS 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 SMS to your phone or email.

• Time Lapse

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

ON: Camera automatically triggers at selected intervals.

Trigger	
Sensitivity	High
Trigger interval	1Min
Time Lapse	5Min
Start-Stop1	On <small>Trigger interval and Time Lapse disabled when on</small>
Start-Stop2	Off
(MENU) Exit (OK) Save	

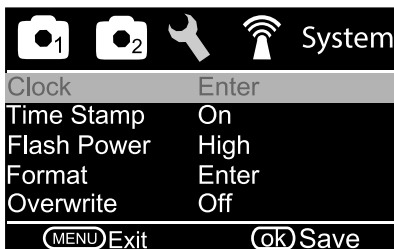
Start-Stop1(2)	
Start HM	Hour: Minutes
Stop HM	Hour: Minutes
Trigger Interval	0 Sec <small>0-55 sec/1-60 min options</small>
Time Lapse	Off <small>Off/30-55 sec/1-59 min /1-8 hour options</small>
(MENU) Exit (OK) Save	

• Start - Stop

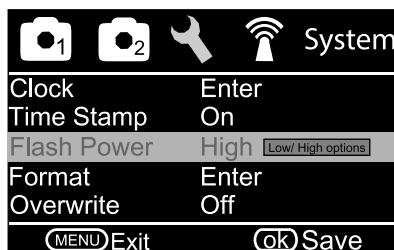
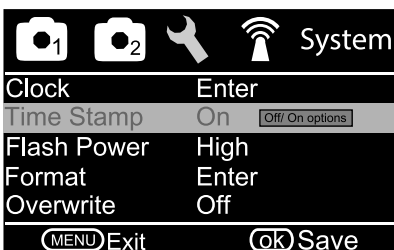
OFF: Camera triggers 24 hours per day.

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.

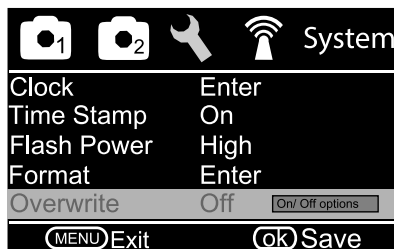
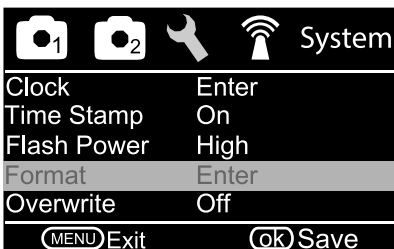
System Tab:



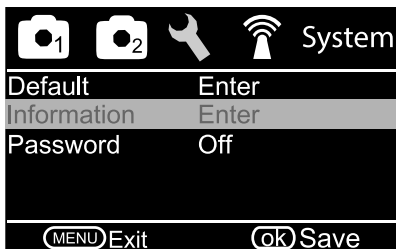
- **Set Clock:** Enter correct Date and Time.



- **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.

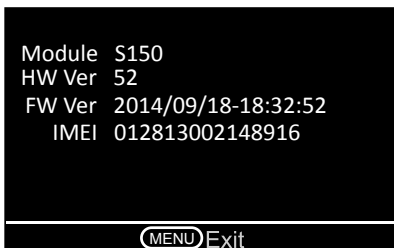


- **Format:** Formats the SD card and deletes all photos/videos.
- **Overwrite**
 - OFF: (Recommended)** Retains saved photos and videos on SD card when full.
 - ON:** Camera deletes the oldest photos/videos from SD card when full and continues to save newer photos/videos.



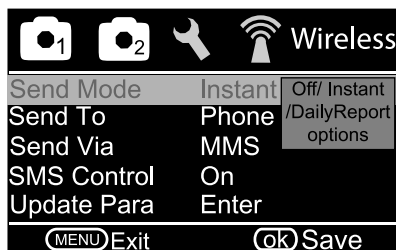
• **Default:** Restores camera back to factory settings.

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



• **Password:** The default password is 0000. Choose **OFF** to stop this function and **ON** to set a four digit password.

Wireless Tab:



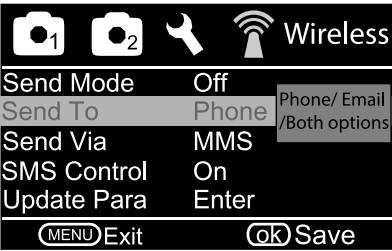
• Send Mode

Instant: (Recommended) The camera sends a photo immediately when it takes a photo. It will only send an SMS text message of the sequence number when a video is taken (Video: 3/99). The **Max Num** field indicates the maximum number of photos or texts allowed to be sent within 24 hours. The camera resets to zero each night at 0000 hours.



Daily Report: Sends an SMS to tell how many photos and videos were captured during the past 24 hours. In picture mode, the SMS tells the accumulated picture quantity together with the latest captured picture. In video mode, the SMS tells the accumulated video quantity only.

Off: GSM function is de-activated. Photos and videos will not be sent to a recipient but will be saved to the SD card.



• **Send To:**

Phone: (Recommended) A text photo will arrive to a cell phone much faster than an email can arrive to either a cell phone or computer provided the cell phone has good reception. A phone number must appear in **Recipients**.

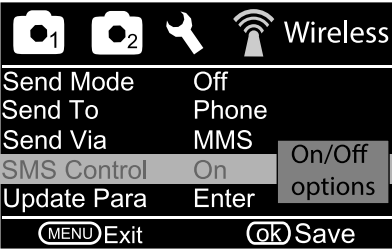
Email: The image will be sent to email. An email address must appear in **Recipients**.

Both: The image will be sent to both a cell phone and an email address. A cell phone number and an email address must appear in **Recipients**.

• **Send Via**

MMS: (Recommended) Image sent by text message.

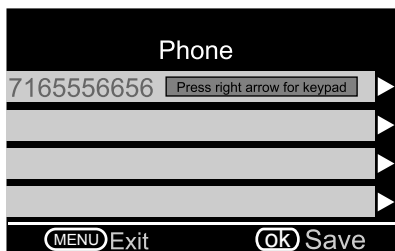
Internet: Image sent by internet using a data plan.



• **SMS Switch:** The SMS Switch must be **ON** for the camera to receive text commands from four listed phone numbers.



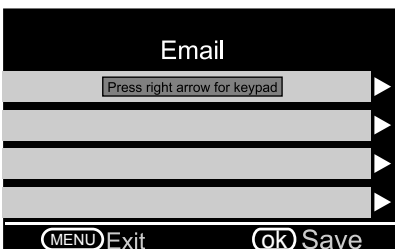
• **Update Para:** Replaces parameters from another camera. Not necessary for daily operation.



- **Phone:** Press OK to select an open tab and move right one click to input the recipient phone number. Use the keypad to type the 10-digit phone number. Select SAVE which returns to the Phone submenu. Select SAVE which returns to the WIRELESS submenu.



Press the delete button to erase each of the number characters. Use the arrow buttons to select the numbers. Select save to return to menu.



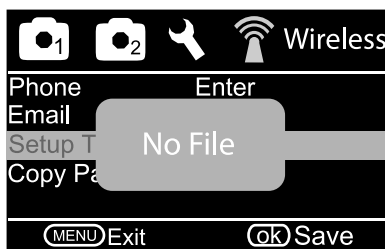
- **Email:** Press OK to select an open tab and move right one click to input the recipient email address. Use the keypad to type the email address. Select SAVE which returns to the Email submenu. Select SAVE which returns to the WIRELESS submenu.



Press the delete button to erase each of the existing email address characters. Use the arrow buttons to select the characters and numbers. Select save to return to menu.



Image From: Press OK to select ON and input the camera, trap or bait site name. Use the keypad to type the information. Select SAVE and return to the WIRELESS submenu.



Setup Tool: Will not be used for normal daily operations.



Copy Para: Will not be used for normal daily operations.

If you have any questions, refer to the **JAGER PRO™ M.I.N.E. & I.C.E. (3G) Camera Operations Video** at **04:20 MAIN MENU TABS** for more information.

MANUALLY SENDING PHOTO

Our 3G camera is designed to test program settings and SIM card service by manually sending a photo. Move the selector switch from OFF to SETUP. Allow the camera 30 seconds to search the wireless 3G network. AT&T will appear in the top center of the LCD screen after connecting. Pressing the OK button will immediately capture a photo and 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 first “Setting”, then “Uploading”, then “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 an SMS text to a programmed phone when the 3G signal is strong.

If you have any questions, refer to the **JAGER PRO™ M.I.N.E. & I.C.E. (3G) Camera Operations Video at 12:45 MANUALLY SENDING PHOTO** for more information.

SMS COMMAND CODES

The SMS Switch must be **ON** for the camera to receive text commands and was previously covered under the WIRELESS menu tab. The M.I.N.E.™ Cam is able to receive text commands from up to four phone numbers to perform 22 different functions remotely. All four phone numbers have the ability to send and receive SMS commands to control the camera.

We store camera SIM card numbers into our cell phones by trap number. These are the most frequently used functions. The code to check Cellular Signal Strength is ***150#**. The response from the camera is “The signal is good.” A response of “The signal is weak” or “The signal is very weak” indicates a 5 decibel booster antenna on a telescoping pole is needed.

The code to check Battery Level is ***201#**. The response from the camera is “Battery level 5” indicating a full charge. The camera will stop functioning at “Battery level 1.”

The camera cannot text video; only photos. The code to change camera mode to photo is ***200#0#**. The response from the camera is “Set to photo mode”.

The code to close the M.I.N.E.™ Gate or Activate the RF Trigger is ***777#**. The response from the camera is “RF triggered”. This code is only a function of the M.I.N.E.™ Camera. The I.C.E.™ Camera **does not** utilize an internal transmitter.

After the M.I.N.E.™ Gate has been closed, the camera will continue sending photos from the increased motion at the trap enclosure. The code to turn the Send Mode **Off** is ***140#2#**. The response from the camera is “Send off”. Photos will continue to be triggered and saved to the SD card unless the PIR sensitivity is turned “OFF”.

Future photos will not be sent until the Send Mode is returned to instant. The code to change the Send Mode to Instant is ***140#0#**. The response from the camera is “Send instant photo”.

The command to add a new recipient phone number of 706-555-1212 is ***100#7065551212#**. The response from the camera is “Phone number added”. Refer to page 25 of this operations manual for all 22 available SMS codes.

If you have any questions, refer to the **JAGER PRO™ M.I.N.E. & I.C.E. (3G) Camera Operations Video at 13:47 SMS COMMAND CODES** for more information.

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 “Checking 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 texts and photos via MMS. 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.

If you have any questions, refer to the **JAGER PRO™ M.I.N.E. & I.C.E. (3G) Camera Operations Video** at 17:13 **LOGIN FAIL CORRECTIVE ACTION** for more information.

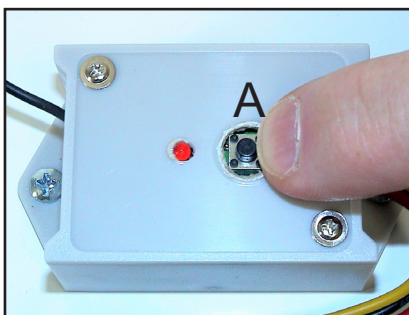
TIMING CAMERA TRANSMITTER TO CONTROL BOX RECEIVER

**THIS STEP IS ONLY A FUNCTION OF THE 3G M.I.N.E.™
CAMERA. THE 3G I.C.E.™ CAMERA DOES NOT UTILIZE AN
INTERNAL TRANSMITTER.**

The 3G M.I.N.E. Camera has an internal transmitter on the circuit board and must be located within 50 meters of the M.I.N.E.™ Gate to operate correctly. Users must manually calibrate the camera transmitter signal to each control box receiver the first time they are paired together. One camera will operate multiple control box receivers to trigger multiple gates simultaneously at a trap enclosure.

1. Move camera selector switch from **OFF** to **SETUP**.

2. Open control box housing and press **(A)** receiver button. The receiver red light will only emit for 10 to 15 seconds.



3. Press the camera **(A)** left arrow and release then press the camera **(B)** right arrow and release to send a manual RF signal to the control box. The receiver light should flash three times and shut off if performed correctly. Conduct a test by repeating this step, the latch will activate.



Repeat these steps on other control box receivers if multiple gates are used at the trap enclosure. Move camera selector switch from **SETUP** to **ON** and send SMS text command ***777#** to test transmitter and receiver calibration and gate operation.

If you have any questions, refer to the **JAGER PRO™ M.I.N.E. & I.C.E. (3G) Camera Operations Video** at **18:41 TIMING CAMERA TRANSMITTER TO CONTROL BOX RECEIVER** for more information.

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

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.

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.

Secure the 6 volt external power supply to the camera mount with the battery bracket. Open the camera DC external battery port and insert the battery cable plug into the camera for extended, long-term operation.

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 SMS code *500#. "P" 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.

The date is 26 JUNE 2014. The time is 2024 or 8:24 in the evening. It is a new moon with 29 more nights until the next new moon. The temperature is 81 degrees Fahrenheit. The battery symbol is "H" which indicates the batteries are at a high charge.

The final step is to register your new equipment on the JAGER PRO website via the camera IMEI 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.

If you have any questions, refer to the **JAGER PRO™ M.I.N.E. & I.C.E. (3G) Camera Operations Video** at **20:08 CAMERA DEPLOYMENT** for more information.

CARE AND MAINTENANCE

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.
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 online at www.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.

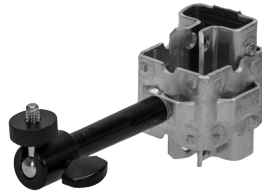
- 5 db gain for remote areas
- 2.5 feet mast allows for higher vertical reach in terrain such as valleys and thick tree cover
- 10.5 feet coaxial cable is designed for high quality signal transmission while providing flexibility to mount on a 16' tall telescoping pole.



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.

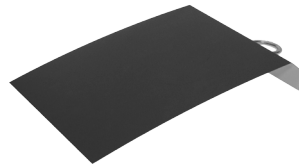
- Aluminum and steel construction for strength and durability
- Ball head allows the camera to be quickly aimed with precision



T- Post Sun Shade

Protects the M.I.N.E.™ Cam from direct sunlight and rain. Reduces sun flares and over exposure of photos and videos due to less than perfect camera positioning.

- Heavy duty metal construction for durability.
- Attaches directly to the T-Post over the M.I.N.E.™ Cam using the included U-Bolt.



PURCHASING A SIM CARD

We recommend an AT&T SIM card as their data package has unlimited text and photo messaging for only \$19.99 per month. It does not matter which cellular company offers the best coverage in your area. Verizon and Sprint network providers use CDMA technology and the camera requires GSM technology (AT&T or T-Mobile) to operate.

AT&T customer service representatives are not trained to recognize a SIM card can function in a wireless camera. They will debate this application is possible and deny such a plan exists.

AT&T SIM cards must be purchased in person from an AT&T corporate store; not an AT&T authorized retailer. Type "AT&T corporate store" into a search engine (i.e. Google or Bing) and enter your zip code to find the nearest location. Users cannot request unlimited messaging packages online. Please take this manual to your local AT&T corporate store to help the rep.

<http://www.att.com/shop/wireless/plans/prepaidplans.html>

Messaging Packages: Text and photos can be sent instantly using a M.I.N.E™ Cam. This AT&T SIM card is available with the 10¢ per minute plan.

200 messages for \$4.99/month
1000 messages for \$9.99/month
Unlimited for \$19.99/month



Ensure the AT&T representative adds "Automatic Renewal" to this Pay As You Go SIM card. Packages are good for 30 days as long as your account balance has not expired. The amount of the monthly package will be taken out of the existing account balance every 30 days with "Automatic Renewal".

REPLENISHING A SIM CARD

Upon initial purchase, record the SIM card phone number and expiration date to simplify the process. Users may update the account monthly or pay as many months in advance as you wish to remain active. Replenishing the AT&T SIM card can be accomplished in three ways:

1. Visit the local AT&T corporate store in person.
2. Visit a local AT&T Express Service Kiosk.
 - a. Select- My Payment Options- Prepaid Accounts.
 - b. Enter wireless number then verify wireless number.
 - c. Select- Refill my prepaid account.
 - d. Select the amount to add to your Prepaid Account.
3. Pay by credit card over the phone at **1-800-331-0500**.
 - a. Press 1 for other.
 - b. Press 0 to speak with a customer service representative. Users must speak to a customer service rep as the SIM card does not have a pin number to use the automated system.

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.

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.

SMS COMMAND CODE LIST

Ensure the SMS Switch is **ON** in order for the camera to receive text commands. The M.I.N.E™ Cam is able to receive text commands from up to four phone numbers to perform these 22 different functions remotely. All four phone numbers have the ability to send and receive SMS commands to control the camera.

• Change Send Mode: Instant Response: Send instant photo	*140#0#
• Change Send Mode: Daily Report Response: Send daily report	*140#1#
• Change Send Off Response: Send is off	*140#2#
• Change Send Via: MMS Response: Send via mms.	*120#0#
• Change Send Via: Internet Response: Send via Internet	*120#1#
• Change Send To: Phone Response: Send phone.	*130#0#
• Change Send To: Email Response: Send to email	*130#1#
• Change Send To: Both Response: Send to both.	*130#2#
• Add Recipient: Phone Number Response: Phone number added	*100#7065551212#
• Delete Recipient: Phone Number Response: Phone number deleted	*101#7065551212#
• Add Recipient: Email Address Response: Email added	*110#joe@me.com#
• Delete Recipient: Email Address Response: Email deleted	*111#joe@me.com#
• Close M.I.N.E.™ Gate Response: RF triggered	*777#
• Change Camera Mode: Photo Response: Set to photo mode	*200#0#
• Change Camera Mode: Video Response: Set to video mode	*200#1#
• Take a Photo and Send Now Response: Picture sending	*500#
• Check Cellular Antenna Signal Response: Signal: The signal is very weak/ The signal is weak/ The signal is good/ The signal is very good	*150#
• Check Battery Strength Response: Battery Level 1 to 5 (low to high)	*201#
• Set PIR Level to High Response: PIR sensitivity high	*202#0#
• Set PIR Level to Normal Response: PIR sensitivity normal	*202#1#
• Set PIR Level to Low Response: PIR sensitivity low	*202#2#
• Set PIR Level to Off Response: PIR sensitivity off	*202#3#

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

View our instructional video series online at:

www.youtube.com/JAGERPRO

You Tube

JAGER PRO Channel

Like us on Facebook

www.facebook.com/JAGERPROHCS



PO Box 4006

Columbus, GA 31914

Phone: 706-718-9789

Email: info@jagerpro.com

Website: www.jagerpro.com