OBSERVATION CAMERA

National Geographic's net proceeds support vital exploration, conservation, research, and education programs.

General Warning

⚠ DANGER!

- This device contains electronic components which operate via a power source (power supply and/or batteries). Only use the device as described in the manual, otherwise you run the risk of an electric shock.
- Children should only use the device under adult supervision. Keep packaging material (plastic bags, rubber bands, etc.) out of the reach of children! There is a risk of choking!
- Make sure you insert the batteries correctly. Used or damaged batteries could cause burns if they come into contact with the skin. If necessary, wear adequate gloves for protection.

⚠ DANGER!

- Do not expose the device to high temperatures. Use only the recommended batteries. Do not short-circuit the device or batteries, or throw them into a fire. Excessive heat or improper handling could trigger a short circuit, fires or even explosions!

❗ NOTE!

- Do not disassemble the device. In the event of a defect, please contact your dealer. He will contact the Service Centre and can send the device in to be repaired, if necessary.
- Use only the recommended batteries. Always replace weak or used batteries with a new, complete set of batteries at full capacity. Do not use batteries from different brands or with different capacities. The batteries should be removed from the unit if it has not been used for a long time.
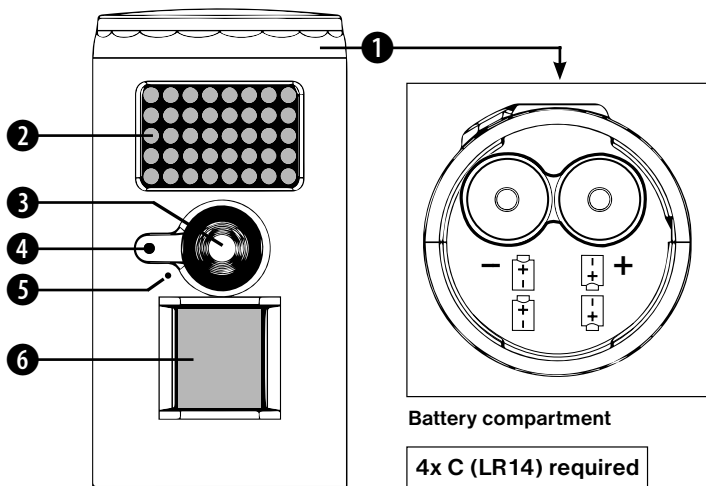
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Scope of delivery
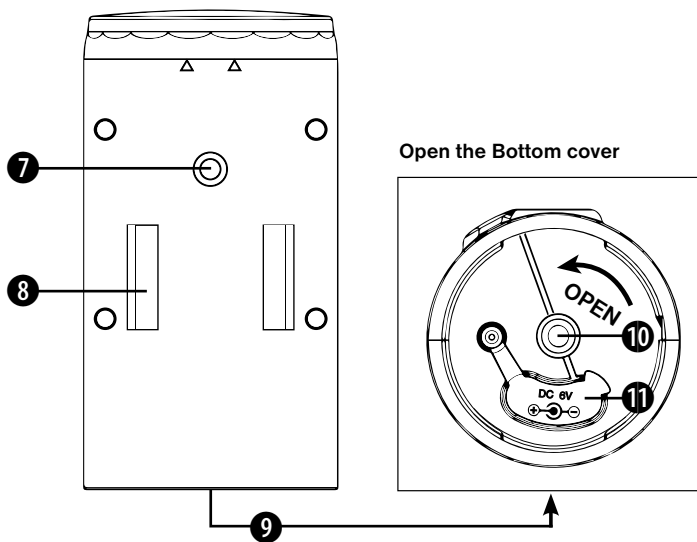
1. Observation camera
2. Instruction manual
3. Strap
4. USB cable
5. AV cable
6. Wall mounting device
7. Mounting screws

Front view

Battery compartment

4x C (LR14) required
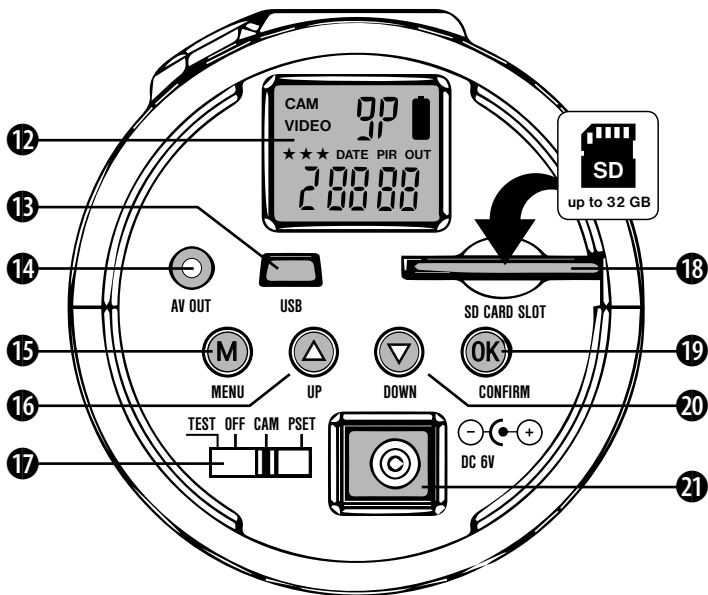
❶	Battery cover
❷	Infrared LED
❸	Camera lens
❹	Test laser beam
❺	Microphone
❻	Passive Infrared Sensor (PIR)

Back view

Open the Bottom cover

❼	Tripod thread
❽	Strap holder
❾	Bottom cover
❿	Tripod thread
⓫	DC 6Volts port cover

Control panel

12	LCD Display
13	USB Port
14	AV out Port
15	Menu button
16	Up button

17	Switch (Test/Power/Preset)
18	SD card slot (up to 32 GB)
19	Confirm button
20	Down button
21	DC 6V Port
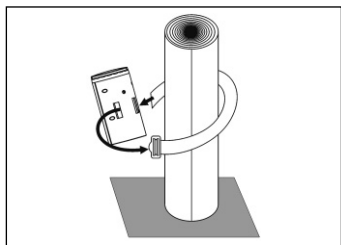
Pillar or tree mounting
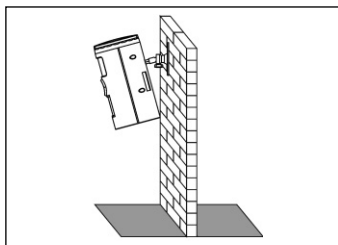
Wall mounting
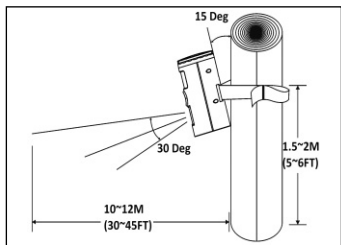
Effective Range

Effective Angle

NATIONAL GEOGRAPHIC™
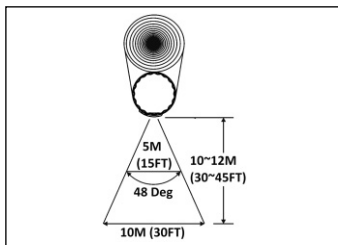
General Information

Storing conditions
- Operating environment: -10 to 40 deg C (14 to 104 deg F). 20-85% relative humidity, non-condensing.

Special care instructions
- The camera is designed to be weather resistant. Never attempt to immerse the unit in water or any other liquid. This will damage the unit and void the warranty.
- Use a soft lens cloth for cleaning lens. Avoid touching lens with fingers. And remove dirt or stains with a soft cloth dampened with water or neutral detergent. Keep your camera in a dry and cool dust-free environment or container when it is NOT used.
- Avoid dropping your camera on to a hard surface.

Definitions

Definitions of Front view parts
- **Batteries cover:** Turn to open the cover to install the batteries
- **Infrared LED:** Invisible light for nighttime capture
- **Camera lens:** To capture the image/video
- **Test laser beam:** To identify the capture area and countdown indication

⚠ Please avoid the laser beam point to your eyes

- **Microphone:** To record sound during video recording
- **Passive infrared sensor:** To detect the moving object
- **Bottom cover:** Turn to open the cover to set the camera

Definitions of back, top and bottom view parts
- **Tripod nut:** To attach the wall mount device
- **Strap holes:** To attach the camera to a pillar or tree by provided strap
- **Batteries compartment:** To install the C batteries
- **DC 6 Volts port cover:** Open it to connect a DC 6V external power
  Tightly close to prevent the water leakage
  NOTE: Make sure the installed batteries or the external power is in correct polarity

Definitions of bottom open view parts
- **LCD display:** To display the setting and camera status
- **USB port:** To connect the camera to a PC by provided USB cable for captured image/video download
- **AV out:** To connect the camera to a TV by provided AV cable to play the captured image/video
- **[M] Menu button:** To change the setting in camera mode
- **Up and down button:** To change the mode and adjust the setting value
- **Switch:** Switching to turn the power on/off or go into Test/Preset mode
- **SD card slot:** To install the SD memory card
- **[OK] Confirm button:** Press to confirm the settings.
- **DC 6V port:** To connect the DC 6V external power

Definitions of LCD display
- **CAM:** It indicates the camera in still image mode.
- **VIDEO:** It indicates the camera in vide mode.
- **∃∄∄ :** It indicates the burst mode or video length.
- **▬ :** It indicates the battery status.

▮	> ▮ > ▮ > ▮ <	▯̸
Full (Icon on)	**Half (Icon blinking)**	**Low (Icon off)**

➢ **When batteries are low, the LCD display shows 'bAtLo'. Please replace with new batteries.**
- ★★★ It indicates the camera in still image mode.
  - ★★★ Image resolution is 8 MP
    - ★★ Image resolution is 5 MP or video resolution is HD 720p
      - ★ Image resolution is 3 MP or video resolution is VGA
- **D :** It indicates the camera in date setting.
- **T :** It indicates the camera in time setting.
- **T-O :** It indicates the camera in time out setting.
- **PIR :** It indicates the camera in PIR detection mode
- **TLS :** It indicates the camera in timelapse mode.
- **┌∺∷∺∺ :** It indicates the date/time/time out value during setting or captured image/video quality. The date and time will stamp to the still image and video.

Quick Start Guide

This guide is designed to get you up and running in a matter of moments. To get the most out of this Observation camera, please read the manual thoroughly before operating. If you would like to modify any of the factory default settings, except for the time & date, please see manual for instructions.

Factory Default Settings:

Time Out:	30 Sec	**Burst Mode:**	3 Still Images
Resolution:	3 MP	**Operation Mode:**	PIR
Video Mode:	10 Seconds (VGA Resolution)		
Timelapse setting:	19:00-7:00 (Next day)		

Initial Camera Set-up:

1. Install 4 'C' cell batteries in correct polarity (+/-) as indicated in battery compartment.
2. Insert SD card into the camera.
3. Turn switch to **CAM** to adjust the time and date.
4. The internal LCD screen displays **T** blinking.
5. Press the **[OK]** button to start the time settings.
6. Press the **[UP]** or **[DOWN]** button to adjust the minute setting and press **[OK]** to confirm and move to the hour setting.
7. Repeat to set the hour and then press **[OK]** to confirm and move to date.
8. Adjust the month, day, and year by using **[UP]** or **[DOWN]** button. Each time you finish an adjustment you MUST press the **[OK]** button to confirm and move to the next field for adjustment.
9. Once done, the word '**dEL**' will be blinking, this stands for delete menu and will allow you to format your SD Card. (This will delete ALL images). Press the **[M]** button to exit.

Battery and memory installation

➢ **WARNING:** Do not use different voltage lead acid battery other than the one specified in this section. Doing so will damage the camera and will void the warranty.

➢ **WARNING:** ALWAYS have the camera in the OFF position when installing or removing batteries and memory card. Removing batteries or memory card while the camera is ON may damage the camera.

Your Observation camera is designed to operate using two different types of battery power options.

Batteries 'C' cell
The internal battery compartment accepts 4 'C' cell batteries. Be sure to use high quality brand name alkaline batteries. Install batteries with correct polarity (+/-) as noted inside the battery compartment.

DC 6V external power
The camera is equipped with an external power jack designed to accept a barrel plug cable of DC 6V adaptor (Sold separately).
• Make sure camera is in the OFF position.
• Insert the external AC to DC power adaptor barrel plug into the DC 6V jack on the bottom of camera housing.
• Turn the switch to a CAM or PSET.

Memory options
The camera is also equipped with an expandable media card slot capable of accepting up to 32 GB SD card with Class 6 or below speed rating (sold separately). The LCD display will show the number of images stored on the SD card. If no SD card is inserted the front counter display will show '**NOSd**'.

And once memory up to full, the camera will re-loop the memory to keep the last image and delete the first image from memory.

Inserting SD memory card
➢ *NOTE: Make sure camera is in the OFF position whenever adding or removing memory.*
• Insert SD memory card in to the SD card slot completely and in the correct direction as shown by the sticker located at the side of the housing.
• To remove the SD memory card, depress the SD card and pull out the card gently.
• SD cards must be clean (no images from other sources). If you are using the SD card from other cameras, please make sure to format the SD card in your computer prior to use in your camera. New cards are good to use straight from the package.

FORMAT – Definition: When you format a SD memory card, the operating system erases all information and files on the card. Then it creates an internal address table that it later uses to locate information and files. Formatting also removes all Hidden System files as well. Basically it cleans your SD memory card just like if it was brand new. DO NOT USE File System type: 'NTFS' or 'exFAT', these formats are not supported.
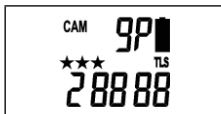
Camera setup and program

When the camera switch is first turned in the *CAM* location, the internal LCD display shows the camera status. The following information is present on this screen.

**Passive Infrared Mode (PIR)**   **Timelapse / PIR Mode**

If no buttons are pressed after 30 seconds the LCD display will go to sleep mode and LCD display switches to show the capture quality and enter 1-minute count down for user leave the capture area, then camera enters PIR detection mode or timelapse mode. To wake up the camera by pressing **UP** or **DOWN** button once, the LCD display will resume the status of camera.

Setting the preset program selection mode:
This camera is equipped with 2 Program selection toggle switch settings. Make sure camera switch is in the OFF position BEFORE changing any toggle switches.
➢ *NOTE: If you choose one of the preset settings, your camera will only function in PIR mode not timelapse mode*
• **CAM -** This allows the user to define what setting the camera will use.
• **PSET -** This bypasses all user defined settings and uses the following settings: (PIR mode / Resolution: 3MP / Burst: 3P / Time out: 30 seconds).
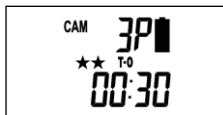
Program the camera using CAM mode
Setting the CAM operation mode:

Your **Camera** can be programmed to operation either in PIR detection mode or timelapse / PIR mode.

- Slide the switch to the *CAM* position.
- LCD display will show the camera status screen.
- Press the **[M]** button once within 30 seconds to enter the programming mode, the word **PIR** or **TLS** will be blinking.

```
CAM  9P
★★★  PIR
28888
```

```
CAM  9P
★★★  TLS
28888
```
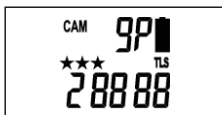
- Press the **[UP]** or **[DOWN]** button to select PIR mode.
- Press **[OK]** to save your selection.
- Press **[M]** button to exit.

Setting the Image Resolution and the Image burst shoot in PIR mode:

Your Observation camera can be programmed to 3 different image resolutions: 3 stars is 8MP, 2 stars is 5MP and 1 star is 3MP and can be programmed to shoot 1-9 pictures per triggering.

- Slide the switch to the *CAM* position, LCD display will show the camera status screen.
- Press the **[M]** button once within 30 seconds to enter the programming mode.
- The word **PIR** will be blinking, press **[OK]** to confirm the camera's operation is PIR detection.
- Press **[UP]** or **[DOWN]** button until the word *CAM* is blinking.
- Press the **[OK]** button ONCE to confirm the camera into *CAM* mode, the **STARTS** will be blinking.
- Press **[OK]** to enter the image resolution setting.
- Press the **[UP]** or **[DOWN]** button to select the desired resolution.
- Press **[OK]** to save your selection, then current number of burst shoot will blinking.

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- Press **[OK]** to enter the burst shoot setting then press the **[UP]** or **[DOWN]** button to select the desired burst mode setting or number of pictures per triggering.
- Press **[OK]** to save your selection, then the time out **T-O** will blinking. Press **[OK]** button to enter time out setting or press **[M]** button to exit.

Setting the video resolution and setting the video length in PIR mode:

Your Observation camera can be programmed to 2 different video resolutions: 2 stars is HD 720, 1 star is VGA 640 x 480 pixels and can be programmed to record 5-300 seconds of video per triggering. The video mode is only workable under PIR mode.

- Slide the switch to the *CAM* position, LCD display will show the camera status screen.
- Press the **[M]** button once within 30 seconds to enter the programming mode.
- The word **PIR** will be blinking, press **[OK]** to confirm the camera's operation is PIR detection.
- Press **[UP]** or **[DOWN]** button until the word **VIDEO** is blinking.
- Press the **[OK]** button ONCE to confirm the camera in **VIDEO** mode, the **STARS** will be blinking.
- Press **[OK]** to enter the video resolution setting.
- Press the **[UP]** or **[DOWN]** button to select the desired resolution.
- Press **[OK]** to save your selection, then current number of video length will blinking.
- Press **[UP]** or **[DOWN]** button to select the desired video length from 5 to 300 seconds in 5-second increments.
- Press **[OK]** to save your selection then the time out **T-O** will blinking. Press **[OK]** button to enter time out setting or press **[M]** button to exit.

Setting the time out in PIR mode:

Your **Observation camera** can be programmed to set the amount of time in seconds or minutes the camera will sleep between PIR triggers.

- Slide the switch to the *CAM* position, LCD display will show the camera status screen.
- Press the **[M]** button once within 30 seconds to enter the programming mode.

- The word **PIR** will be blinking, press **[OK]** to confirm the camera's operation is PIR detection.
- Press **[UP]** or **[DOWN]** button until the word **T-O** (time out) is blinking.
- Press **[OK]** button and the **MINUTES** digits will be blinking.
- Press **[UP]** or **[DOWN]** button to increase or decrease the time value in minutes from 00 to 10 minutes in 1-minute increments.
- Press **[OK]** to save the minute setting and the **SECONDS** digits will be blinking.
- Press **[UP]** or **[DOWN]** button to increase or decrease the time value in seconds from 01 to 55 seconds in 5-second increments.
- Press **[OK]** to save the second setting.
- You'll then see the word **T** (Time) blinking. Press **[OK]** button to enter time setting or press [M] button to exit.

Setting the time and date in PIR operation mode:
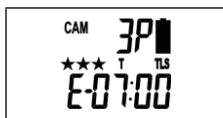Your **Observation camera** uses the 24-hour time format.

- Slide the switch to the *CAM* position, LCD display will show the camera status screen.
- Press the **[M]** button once within 30 seconds to enter the programming mode.
- The word **PIR** will be blinking, press **[OK]** to confirm the camera's operation is PIR detection.
- Press **[UP]** or **[DOWN]** button until the word **T** is blinking.
- Press **[OK]** to enter minute setting first.
- The **MINUTE** digits will be blinking.
- Press **[UP]** or **[DOWN]** to increase or decrease the minute value (00 – 59).
- Press **[OK]** to save your selection and enter hour setting.
- The **HOUR** digits will be blinking.
- Press **[UP]** or **[DOWN]** to increase or decrease the hour value (00 – 23).
- Press **[OK]** to save your selection and enter month setting.
- The **MONTH** digits will be blinking.
- Press **[UP]** or **[DOWN]** to increase or decrease the month value (1 - 12).
- Press **[OK]** to save your selection and enter day setting.
- The **DAY** digits will be blinking.
- Press **[UP]** or **[DOWN]** to increase or decrease the day value (01 – 31).
- Press **[OK]** to confirm the date setting and enter year setting.
- The **YEAR** digits will be blinking.
- Press **[UP]** or **[DOWN]** to increase or decrease the year value (01 – 99).

- Once this is all done, press **[OK]**. You'll then see the word **- dEL -** blinking.
- Press **[M]** button to exit the program setting and back to the status screen.

Setting the timelapse mode (TLS):

The timelapse default setting value is from 17:00 to 07:00 the next day. When the camera is set to use the timelapse mode **(TLS)**, the program settings will follow the timelapse settings. Outside of the timelapse time frame; the camera will follow the user defined PIR settings.

The user can set the program for a pre-determined time period [such as 19:00 to 07:00]. The user then sets the frequency of still images only (video function not available in limelapse mode). The camera will remain in timelapse mode until the user has changed the program setting.

- Slide the switch to the *CAM* position, LCD display will show the camera status screen.
- Press the **[M]** button once within 30 seconds to enter the programming mode, the word **PIR** or **TLS** will be blinking.
- Press **[UP]** button until you see the word **TLS** blinking.
- Press **[OK]** to confirm and go into TLS Mode 'Start Time' setting.
- The display will show **T + S-88:88**   (S = Start, 88:88 = time in HH:MM).
- Press **[OK]** to set the 'Start Time' setting. At this point you can adjust the time from 00:00 to 23:59.
- The **MINUTE** digits will be blinking.
- Press **[UP]** or **[DOWN]** to increase or decrease the minute value (00 – 59).
- Press **[OK]** to save your selection and enter hour setting.
- The **HOUR** digits will be blinking.
- Press **[UP]** or **[DOWN]** to increase or decrease the hour value (00 – 23).
- Press **[OK]** to save the 'Start Time' setting and move to the 'End Time' setting.
- After completing the start time setting, camera will go into TLS Mode 'End Time' setting.

- The display will show **T + E-88:88**
- (E = End, 88:88 = time in HH:MM)
- At this point you can adjust the time from 00:00 to 23:59 by pressing the **[UP/DOWN/OK]** buttons same as start time settings.
- Press **[OK]** to save the 'End Time' settings and move directly to the **TIME OUT** setting.
- Please complete the TIME OUT, still image resolution, burst mode settings like the settings on the PIR operation mode.
- Then press **[M]** button to exit.

EXAMPLE:

#1: If a user selected the timelapse mode, and sets the start time to 07:00 and End Time at 20:30, then selects the timeout to be 3 minutes with a burst mode of 3 pictures, this means that the camera will keep taking 3 pictures for every 3 minutes within the time frame of 7:00AM to 8:30PM. When not within the timelapse time frame, the camera will follow the normal PIR detection settings.

#2: If a user selected the timelapse mode setting as start time 00:00 and end time 00:00, then selected the timeout to be 5 minutes with a burst mode of 3 pictures, this means the camera will keep taking 3 pictures for every 5 minutes, 24 hours a day non-stop.

Timelapse setup recommendations:
We recommend that if you are using the timelapse feature and want to extend your battery life to get the most pictures possible, use the following settings:
Batteries: Energizer lithium batteries
**Resolution:** Base (1 Star–3MP)
Time Out: 15 seconds

Setting up the camera in the field:
Once all program settings have been setup properly, your **Observation camera** is ready for field use.

Getting started
Listed below are some helpful pointers on how to use your camera to get the best results.

- Mount the camera about 1.5~2M (5~6 feet) high with the camera pointed at a slight downward angle.
- Mount the camera facing north or south **NOT** east or west due to the rising and setting of the sun could produce false triggers and overexposed images.
- If you're covering a trail, face the camera down or up the trail. Most commercial cameras take one second to sense motion/heat and take a picture.
- Clear out any brush or weeds caused by wind or high temperature days in front of camera. This will cause false pictures.
- Double-check the batteries before turning on the camera for use.
- Make sure to insert the memory card after setting up the camera.
- Make sure to turn the camera to *CAM* or *PSET* mode (or take out of Test Mode) before you leave.
- Verify time and date is correct.
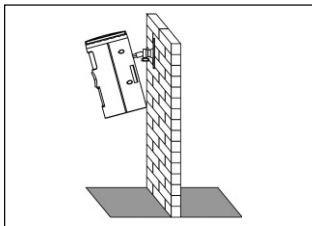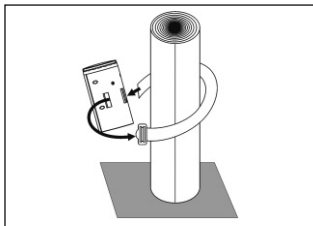
Using the camera in PIR detection mode:

- Open the bottom housing and slide the switch to either one of the *CAM* or *PSET* modes. At this point, you have 30 seconds to make any mode selection changes before camera is ready to use.
- If you chose CAM mode then make sure your camera is in the PIR mode and not timelapse **(TLS)**. If you are not sure, please follow the '**Camera setup and program**' above to set the camera into the proper mode.

To capture images, make sure display reads CAM:

Once in *CAM* mode, if the display does not read **CAM** then,

- Press the **[M]** button once.
- If the LCD display does not show the word **CAM** blinking, press the **[UP]** button once to toggle to Camera mode.
- Press the **[OK]** button and then **[M]** Button to exit.

To capture videos, make sure display reads VIDEO:

Once in *CAM* mode, if the display does not read **VIDEO** then,

- Press the **[M]** button once.
- If the LCD display does not show the word **VIDEO** blinking, press the **[UP]** button once to toggle to Video mode.
- Press the **[OK]** button and then **[M]** Button to exit.

- 30 seconds after you've made your adjustments, the laser beam will begin blinking and enter count down mode. This is your indication to leave the coverage area within one minute.
- After one minute, the camera will enter either Burst mode or Video mode based on your program setting. The camera will then time out between 05-59 seconds or 1-59 minutes, depending on your program setting.
- ➢ *NOTE: The time between motion detection and the camera taking the pictures may vary due to lighting conditions, program settings, and battery power level. The IR Emitter will only be activated in low light conditions.*

Using the camera in timelapse mode

- Open the bottom housing and slide the switch to CAM mode. At this point, you have 30 seconds to make any mode selection changes before camera is ready to use.
- Make sure your camera is in timelapse (TLS) mode and not PIR mode. If your not sure, please follow the '**Camera setup and program**' above to set the camera into TLS mode.
- 30 seconds after you've made your adjustments, the laser beam will begin blinking and enter countdown mode. This is your indication to leave the coverage area within one minute, then the camera will enter timelapse mode.

Viewing and deleting files

The Observation camera offers the user different options for viewing their images. You can view images or videos through either on your computer, or your home TV that's equipped with an RCA Input jack. The LCD display on bottom of the housing will show the number of images stored on the SD memory card.

- ➢ *NOTE: The instructions below are based on starting with a camera that's power is turned off.*

Viewing files by computer

Your Observation Camera is a plug and play USB storage device for users of Windows 2000 / ME / XP / Vista / Windows 7 operating systems. This camera is compatible with MAC 10.6 and above.

Viewing files on your computer via USB connection.
- Make sure the camera's power switch is in the OFF position.
- Plug the larger end of the USB cable into an available USB port on your computer.
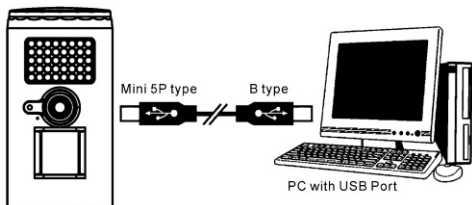
- Plug the smaller end of the USB cable into the camera's side panel.
- The camera will automatically power ON and display the word **USB** on the LCD display.
- At the same time, your computer will recognize the camera as a removable storage device. You will find it under MY COMPUTER.
- At this point you have several options:
➢ **To view your images or play your videos:** Click on the removable storage device and then drill down to the file you want to see and double click on the file name.
➢ **To save your images and videos:** Highlight the file or files you want to save and drag them to your hard drive.
➢ **To delete your images and videos:** Highlight the files or files you want to delete and press the **[DELETE]** button.
➢ To erase all files and reformat you SD memory card: Right click on the Removable Storage device under My Computer and select **FORMAT** then click **START**. You will receive a Warning message press **[OK]**. Then **CLOSE** to exit.
➢ *NOTE: Make sure before you FORMAT you are certain it is the Removable Storage device for the camera.*
- Once you're done, simply unplug the cable from both your computer and the camera. The camera will turn OFF automatically.

For Viewing on your home TV:
- Attach the provided TV out cable to the TV port on the bottom of the camera.
- Insert the other end into the RCA VIDEO IN jacks on the TV.
- Turn on both the camera and the TV.
- Make sure to switch to AUX / VIDEO IN mode on your TV.
  - ➤ **(See your TV owner's manual for directions).**
- The camera's TV OUT is set to NTSC by default. (NTSC – Standard North American TV format)
  - ➤ If the TV monitor doesn't flicker, then you do not need to change your camera's TV OUT setting. Proceed to the next section called Thumbnail Images.
  - ➤ If the TV monitor does flicker, then you will need to proceed to the next step **'TV Out System Settings'** to change your camera's TV OUT from NTSC to PAL (Standard European TV format).
- You will see a series of thumbnail images on your TV.
- Press the **[UP]** or **[DOWN]** button to navigate though your thumbnail images.
- On the upper left hand corner of your TV monitor, it will either display the image OR the image with a video icon which indicates it's a video clip.
- To view in full screen, press the **[OK]** button.
- Press the **[OK]** button again, it will return to **V** the thumbnail view from the full screen image.
- ➤ *NOTE: All videos are recorded with audio, but only have sound when viewing playback on a PC.*

TV Out System Settings:
- Press the **[M]** button once.
- The word **'tu'** on the camera's internal screen will be blinking.
- Press the **[OK]** once and now you'll see **'tu – n'** blinking.
- Press the **[DN]** button to set the camera's TV OUT to PAL.
- The word **'tu – P'** will now be blinking.
- Press the **[OK]** to confirm this setting.
- The word **'tu - P'** will be blinking and then stops.
- Once the blinking stops, power off the camera. Wait for 5 seconds and then power up your camera again.

Deleting files in the field:
- Slide the switch to *CAM* position.
- LCD screen will display the camera status screen.
- Press the **[M]** button within 30 seconds to enter the programming mode.
- Press the **[DOWN]** button until you see the word **- dEL -** in blinking on LCD display.
- Press **[OK]** button to enter the DELETE & FORMAT menu.
- Press **[UP]** or **[DOWN]** button to select the desired function.
  - ➢ **NO-dL** (No Delete) - No images get deleted.
  - ➢ **d-ONE** (Delete One) - Only the last file will get deleted.
  - ➢ **d-ALL** (Delete ALL) - Deletes ALL images on the SD card.
  - ➢ **Ft** (Format) - Deletes all files and reformats the SD card.
- Press **[OK]** to confirm your selection.
- Press **[M]** button to exit the program setting and back to the status screen.

Technical specifications

System Requirements and Compatibility:
- Windows Me/2000/XP/Vista/Windows 7 and MAC 10.6 or above
- Pentium 4, 2 GHz or above
- 1GB RAM (2GB recommended)
- 32 bits color, Resolution 800x600 or above with 256 MB
- 2 GB free hard disc space
- An available USB 1.1 port (USB 2.0 recommended)
- Direct X 9.0 or above – Should come with your operating system already.
- Windows compatible sound card and speaker.
- ➢ *NOTE: If you have any questions regarding your PC specifications please contact your PC manufacturer.*

Camera Features and Specification:
- High precision multi-layer glass lens with coating.
- Focusing: 1.5M (5 ft) to infinity.
- Effective viewing angle: 50 degrees
- Infrared LED effective Range up to 9 m (30 ft).
- PIR detection angle: 48 degrees
- Image resolution options: 8 MP, 5 MP, 3 MP.
- Video resolution options: HD 720p, VGA 640x480 pixels with audio recording.

- Image interpolated from 5 MP sensor
- Capturing options: 1 - 9 image burst mode or 300 seconds video recording with audio.
- Timelapse mode: Sets the frequency of pictures during a time period.
- Hybrid mode: PIR capture and timelapse mode auto changing.
- Time out feature: 1 sec – 600 sec with 5 seconds increment.
- Real time clock for date and time stamping.
- Image format: Standard JPEG/Motion JPEG.
- Auto white balance and auto expose.
- Auto IR emitter light control.
- Built in B&W LCD display.
- External memory support: SD memory card up to 32 GB. (Sold separately)
- Laser beam TEST indication and countdown indication.
- Interface type: USB 2.0
- Built in TV out port.
- Power: C size alkaline batteries x 4 (LR 14)
- External power: DC 6 Volts battery pack or power adaptor. (Sold separately)

Notes on cleaning
- Separate the device from the power supply before cleaning (remove batteries)! Only use a dry cloth to clean the exterior of the device.

EC Declaration of conformity

$C\epsilon$ Bresser GmbH has issued a 'Declaration of Conformity' in accordance with applicable guidelines and corresponding standards. This can be viewed any time upon request.

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Disposal

Dispose of the packaging materials properly, according to their type, such as paper or cardboard. Contact your local waste-disposal service or environmental authority for information on the proper disposal.

Do not dispose of electronic devices in the household garbage!
As per Directive 2002/96/EC of the European Parliament on waste electrical and electronic equipment and its adaptation into German law, used electronic devices must be collected separately and recycled in an environmentally friendly manner.

In accordance with the regulations concerning batteries and rechargeable batteries, disposing of them in the normal household waste is explicitly forbidden. Please make sure to dispose of your used batteries as required by law — at a local collection point or in the retail market. Disposal in domestic waste violates the Battery Directive.
Batteries that contain toxins are marked with a sign and a chemical symbol. "Cd" = cadmium, "Hg" = mercury, "Pb" = lead.

Cd[1]   **Hg[2]**   **Pb[3]**

1 battery contains cadmium
2 battery contains mercury
3 battery contains lead

Warranty and warranty term extension

The warranty term is two years from the date of purchase. Please keep your proof of purchase. Register at **www.bresser.de/warranty** and fill out a brief questionnaire to get your warranty term extended to **five years**. Registration must be completed within three months of purchase (date of receipt) to validate the warranty. If you register thereafter, the warranty term will not be extended.

If you have problems with your device, please contact our customer service first. Do not send any products without consulting us first by telephone. Many problems with your device can be solved over the phone. If the problem cannot be resolved by phone, we will take care of transporting your device to be repaired. If the problem occurred after the warranty ended or it is not covered by our warranty terms, you will receive an estimate of repair costs, free of charge.

Service Hotline: +49 (0) 2872 - 80 74-210

Important for any returns:
Please make sure to return the device carefully packed in the original packaging in order to prevent damage during transport. Also, please enclose your receipt for the device (or a copy) and a description of the defect. This warranty does not imply any restriction of your statutory rights.

Your dealer: …………………………… Art. No.:…………………………………

Description of problem: …………………………………………………………………

…………………………………………………………………………………………………

…………………………………………………………………………………………………

Name: ………………………………… Telephone: …………………………………

Street: ………………………………… Date of purchase: ……………………………

City/Postcode:……………………… Signature: ………………………………

OBSERVATION CAMERA