SPYPOINT®

TINY

USER MANUAL

WIRELESS TRAIL CAMERA

Models:
TINY-W3
TINY-WBF
TINY-PLUS
TINY-7

v1.9

support.spypoint.com   1-888-779-7646   tech@spypoint.com

THANK YOU FOR CHOOSING A SPYPOINT PRODUCT.

This manual will guide you through all the features of your device so that you will get optimal use out of your SPYPOINT product.

Our priority is to provide outstanding customer service. If you need support for your product, please contact the SPYPOINT technical support or visit our website.

CONTACT

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www.spypoint.com

ABOUT US

GG Telecom's mission is to offer products that are easy to use, innovative, affordable and of exceptional quality. Our SPYPOINT products are mainly used for hunting and residential/commercial surveillance. They are distributed and shipped all over the world and the market never stops growing. Prosperous and respected, GG Telecom is a company that constantly keeps abreast of new technologies and listens to its customers to deliver cutting-edge products with practical solutions that improve hunting and outdoor activities.

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CELLULAR CAMERAS
Visit **mySPYPOINT.com** to learn more about the different accounts available.

For the latest version of the activation procedure, go to **support.spypoint.com/activation**.

Table of contents

Camera
(TINY-7)

Camera **(TINY-PLUS,
TINY-W^BF, TINY-W^3)**

Installation strap
(TINY-7, TINY-PLUS)

Installation straps
(TINY-W^BF, TINY-W^3)

BLACKBOX receiver
(TINY-W^BF)

BLACKBOX-D controller
(TINY-W^3)

Quick start guide
(camera)

Quick start guide
**(TINY-W^BF receiver,
TINY-W^3 controller)**

Audio-video
cable

USB
cable

1. Photos lens
2. Antenna
   (TINY-PLUS, TINY-W^{BF}, TINY-W^3)
3. Invisible LEDs
4. Test light
5. Side sensors (2)
6. Fresnel lens
7. Light sensor
8. Cable lock hole
9. Tripod mount
10. Slot for installation strap
11. Power button
12. BUSY LED
13. Navigation buttons
14. Viewing screen
15. Microphone
16. Battery switch
17. Access to the time battery
18. SD card slot
19. Removable battery holder
20. USB port
21. 12V/Solar panel jack
22. External trigger jack
23. TV out

| 1	Photo lens	Image sensor and infrared filter.
2	Antenna **(TINY-PLUS, TINY-W^BF, TINY-W³)**	Allows wireless communication between the camera and a BLACKBOX (receiver/controller).
3	Invisible LEDs	Night lighting to obtain black and white photos and videos.
4	Test light	Flashes in TEST mode when there is detection and flashes 60 seconds in PHOTO/VIDEO mode to allow the user to leave without being photographed or recorded.
5	Side sensors (2)	Allows to prepare the camera so when the target passes through the central sensor, the system is already pre triggered. When activated, the detection area is expanded.
6	Fresnel lens **(in front of the central sensor)**	Expands the detection area and increases the sensitivity of the camera's motion sensor.
7	Light sensor	Allows the lighting of the LEDs panel at night.
8	Cable lock hole	Allows the user to install a CL-6FT cable lock.
9	Tripod mount	Standard ¼-20" tripod mount.
10	Slot for installation strap	Allows the user to install the camera using the installation strap included.
11	Power button	Press the button to turn on or off the camera.
12	BUSY LED	Lights up when the camera is recording.
13	Navigation buttons	Buttons to set the camera.
14	Viewing screen	Allows the user to access the main menu and view photos/videos.
15	Microphone	Record sound in video mode.
16	Battery switch	Allows the user to select the power source according to the type of batteries used.

17	Access to the time battery	Battery that keeps the time and date in memory.
18	SD card slot	An SD card is required to record photos/videos.
19	Removable battery holder	Holder for AA batteries or a rechargeable lithium battery pack.
20	USB port	To transfer photos/videos to a computer.
21	1)12V power jack 2)Solar panel jack	1) This camera can be powered from an external 12-volt DC input such as a 12V battery or a 12V adapter, each sold separately. 2) Allows the user to connect a solar panel (SP-12V) to maintain the charge of the lithium battery pack (LIT-09/LIT-C-8), sold separately.
22	External trigger jack	1/8" port which triggers the taking of photos or videos using a normally open contact. (Example: using a magnetic door contact connected to an alarm system).
23	TV OUT	Allows the user to view or delete photos/videos directly on TV.
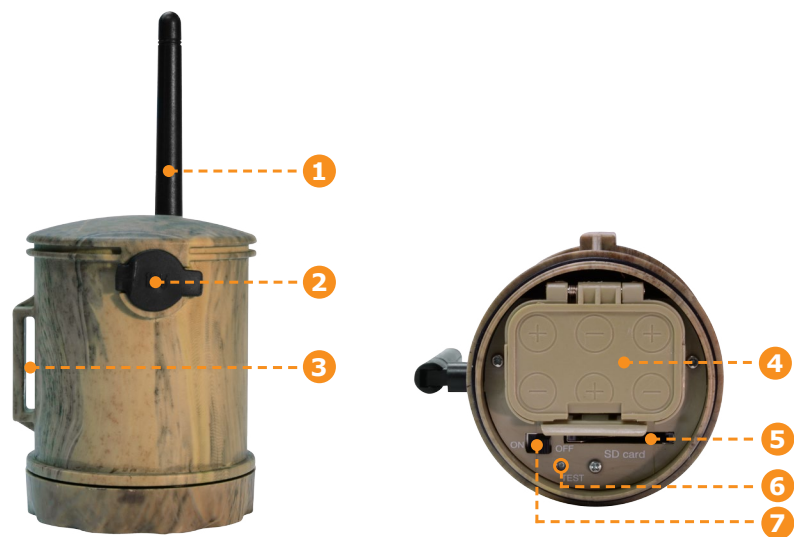
1	Antenna	Allows wireless communication between the BLACKBOX and the camera.
2	12V power jack	The receiver can be powered from an external 12-volt DC input such as a 12V battery or a 12V adapter, each sold separately .
3	Slot for installation strap	Allows the user to install the receiver using the installation strap included.
4	Battery case	Case for AA batteries.
5	SD card slot	An SD card is required to record photos.
6	Test light	Allows the user to know the battery status and indicates the synchronization period.
7	ON/OFF	Allows the user to turn on/off the device.

1	BUSY LED	Lights up when the controller is record.
2	Antenna	Allows wireless communication between the BLACKBOX-D and the camera(s).
3	Viewing screen	Allows the user to access the main menu, see battery level and view photos. Screen with zoom and pan functions.
4	SD card slot	An SD card is required to record photos.
5	Navigation buttons	Buttons to set the controller.
6	TV OUT	Allows the user to view or delete the photos directly on a television.
7	Battery switch	Allows the user to select the power source according to the type of batteries used.
8	ON/OFF	Allows the user to turn on/off the device.
9	1)12V power jack 2)Solar panel jack	1)The controller can be powered from an external 12-volt DC input such as a 12V battery or a 12V adapter, each sold separately. 2)Allows the user to connect a solar panel (SP-12V) to maintain the charge of the lithium battery pack (LIT-09/LIT-C-8), sold separately.
10	Battery case	Case for AA batteries or a rechargeable lithium battery pack.
11	Slot for installation strap	Allows the user to install the controller using the installation strap included.
12	Access to the time battery **(located inside the battery case)**	Battery that keeps the time and date in memory.

The battery level is shown in the REPORT mode (4/4 = full, 1/4= low) and in the bottom right corner of the screen when the camera is in TEST mode. When the battery level shows 2/4 or when a single line remains (see figure below), the camera will continue to take photos but we strongly recommend to change the AA batteries or charge the lithium battery pack before they are empty. If a video is being recorded and the batteries level reaches 0%, the camera saves the file before shutting down.

AA BATTERIES

This camera requires 6 AA batteries (1.5V). The use of alkaline or lithium batteries is strongly recommended. During the installation of the AA batteries, slide the battery switch to ALK (i.e. alkaline). Insert the batteries in the removable battery holder as indicated and insert it inside the camera (see figure below). Battery polarity must be followed.

⚠ Please note that the voltage of rechargeable AA batteries (1.2V) is insufficient to power the SPYPOINT camera. We also recommend the use of new batteries to ensure maximum performance of the camera.

Connectors **Connectors** **Insert connectors first**

6 alkaline AA batteries

Lithium battery pack LIT-09/LIT-C-8

LITHIUM BATTERY PACK

This SPYPOINT camera can be powered by a rechargeable lithium battery pack LIT-09/LIT-C-8 (sold separately). This type of battery is less affected by cold temperatures and lasts up to 3 times longer than an alkaline batteries. During the installation of the lithium battery pack, slide the battery switch to RECH. Insert the battery in the removable battery holder and insert it inside the camera (see figures above).

EXTERNAL (12V)

This camera can also be powered by an external 12-volt DC input such as a 12-volt battery (KIT-12V, BATT-12V or KIT6V/12V) or a 12-volt adapter (AD-12V), each sold separately. During the installation of a 12-volt connection, slide the battery switch to ALK (the AA batteries can remain safely inside the camera). If combined with a lithium battery pack, slide the battery switch to RECH. For available accessories, see p.33.

SOLAR PANEL

This camera also offers the possibility to connect a solar panel (SP-12V sold separately) to **maintain** the charge of the lithium battery pack (sold separately). While installing the rechargeable lithium battery pack, slide the battery switch to RECH to activate the charging system of the solar panel.

Battery switch position (depending on the power source)

Power source	Battery switch position
• 6AA • 12V • 12V + 6AA	ALK
• LIT-09* • 12V + LIT-09* • Solar panel + LIT-09*	RECH

* Rechargeable lithium battery pack, sold separately (LIT-09) or with a charger (LIT-C-8).

TIME BATTERY

The camera has a CR2032 lithium button battery which saves the time and date. To replace the battery:

1. Turn off the camera and remove it from the housing.
2. Using a flat screwdriver, push the tab to the left.
3. While pushing the tab to the left, remove the compartment of the camera.
4. Replace the battery, the polarity must be respected (side + facing up).

It is possible to know the battery level of the receiver when it is turned on. The TEST LIGHT stays on for 8 seconds when the batteries are full. When the TEST LIGHT flashes for 8 seconds, the batteries are low and need to be replaced. If the TEST LIGHT remains off, the batteries are completely empty or are possibly installed in the wrong direction.

AA BATTERIES

6 alkaline AA batteries

The receiver requires 6 AA batteries (1.5V). The use of alkaline or lithium batteries is strongly recommended. Insert the batteries as indicated, battery polarity must be followed.

⚠ Please note that the voltage of rechargeable AA batteries (1.2V) is insufficient to power the BLACKBOX receiver. We also recommend the use of new batteries to ensure maximum performance of your device.

EXTERNAL (12V)

The receiver can also be powered from an external 12-volt DC input such as a 12-volt battery (KIT-12V, BATT-12V or KIT6V/12V) or a 12-volt adapter (AD-12V), each sold separately (p.11). During the installation of a 12- volt connection, the AA batteries can remain safely inside the receiver.

SOLAR PANEL

The receiver can be powered with a 12-volt battery combined with a solar panel SP-12V (sold separately) to maintain the charge of the 12-volt battery (sold separately).

For available accessories, see p.35

The battery level is shown in the top right corner of the screen. When a single line remains, the controller will continue to receive photos but we strongly recommend to change the AA batteries or charge the lithium battery pack before they are empty.

AA BATTERIES
The controller requires 6 AA batteries (1.5V). The use of alkaline or lithium batteries is strongly recommended. During the installation of the AA batteries, slide the battery switch to ALK (i.e. alkaline). Insert the batteries in the compartment as indicated. Battery polarity must be followed.

6 alkaline AA batteries

⚠ Please note that the voltage of rechargeable AA batteries (1.2V) is insufficient to power the controller. We also recommend the use of new batteries to ensure maximum performance of your device.

LITHIUM BATTERY PACK
The controller can be powered by a rechargeable lithium battery pack LIT-09/LIT-C-8 (sold separately). This type of battery is less affected by cold temperatures and lasts up to 3 times longer than an alkaline batteries. During the installation of the lithium battery pack, slide the battery switch to LIT-09. Insert the lithium battery pack in the compartment as indicated.

Lithium battery pack
LIT-09/LIT-C-8

EXTERNAL (12V)
The controller can also be powered by an external 12-volt DC input such as a 12-volt battery (KIT-12V, BATT-12V or KIT6V/12V) or a 12-volt adapter (AD-12V), each sold separately. During the installation of a 12-volt connection, slide the battery switch to ALK (the AA batteries can remain safely inside the controller). If combined with a lithium battery pack, slide the battery switch to LIT-09.

SOLAR PANEL
The controller also offers the possibility to connect a solar panel (SP-12V sold separately) to **maintain** the charge of the lithium battery pack (sold separately). While installing the rechargeable lithium battery pack, slide the battery switch to LIT-09 to activate the charging system of the solar panel.

Battery switch position (depending on the power source)

Power source	Battery switch position
• 6AA • 12V • 12V + 6AA	ALK
• LIT-09* • 12V + LIT-09* • Solar panel + LIT-09*	LIT-09

* Rechargeable lithium battery pack, sold separately (LIT-09) or with a charger (LIT-C-8).

TIME BATTERY

Located inside the battery case, the CR2032 lithium button battery saves the time and date. To replace the battery:

1. Turn off the controller
2. Loose the screw located behind the controller to remove the cover of the battery case.
3. Loose the screw at the bottom of the battery case to access to the time battery.
4. Using a flat screwdriver, push the battery upwards and lift to remove it from its holder.

5. Replace the battery, the polarity must be respected (side + facing up).

MEMORY CARD

A memory card is required to operate the BLACKBOX receiver. The receiver is compatible with SD/SDHC memory cards, up to 32 GB capacity (sold separately).

When the memory card of the receiver is full, the transmission and recording of photos continue by clearing the first recorded photos on the memory card.

Here is a table of the approximate number of photos that can be recorded with different memory card capacities.

	4 GB	8 GB	16 GB	32 GB
Photo				
3 MP	20500	41000	61500	82000
5 MP	17000	34000	51000	68000
8 MP	12000	24000	36000	48000

INSERTING THE MEMORY CARD

Insert an SD/SDHC memory card (up to 32 GB capacity) in the card slot, gold contacts facing up. The card is inserted correctly when a click is heard.

⚠ Before inserting or removing a memory card, always turn off the receiver to prevent loss or damage of the photos already recorded.

REMOVING THE MEMORY CARD

Lightly press the memory card into the receiver once to pop it out of the slot and remove it.

MEMORY CARD

A memory card is required to record photos and videos. The camera is compatible with SD/SDHC memory cards, up to 32 GB capacity. (sold separatel).

When the PHOTO, VIDEO or TEST mode is selected and no memory card is used, the screen displays "Insert memory card" and the camera beeps. When the SD card is full, the screen displays "Memory card full".

Here is a table of the approximate number of photos and length of videos that can be recorded with different memory card capacities. Many photo and video resolutions are noted, see those corresponding to the camera.

	4 GB	8 GB	16 GB	32 GB
Photo				
3 MP	4100	8200	16400	32800
4 MP	3800	7600	15200	30400
5 MP	3400	6800	13600	27300
6 MP	3200	6300	12600	25300
7 MP	2700	5500	10900	21800
8 MP	2400	4800	9500	19000
10 MP	1900	3800	7600	15200
12 MP	1600	3200	6300	12600
Video				
320 x 240	4 h	8 h	16 h	32 h
640 x 480	2h10	4h10	8h20	16h40
1280 x 720	40 min	1h20	2h40	5h20

INSERTING THE MEMORY CARD

Insert an SD/SDHC memory card (up to 32 GB capacity) in the card slot, gold contacts facing up. The card is inserted correctly when a click is heard.

⚠ Before inserting or removing a memory card, always turn off the camera to prevent loss or damage of the photos already recorded.

REMOVING THE MEMORY CARD

Lightly press the memory card into the camera once to pop it out of the slot and remove it.

"BUSY" DEL

The BUSY light, located beside the screen, is a diagnostic tool. It lights up when the camera starts, when the camera records a file and in TEST mode at the same time as the test light (located in front of the camera).

ANTENNA INSTALLATION (TINY-PLUS)

Remove the cap and screw the antenna on the side of the camera. The antenna allows wireless communication between the camera and a controller. The TINY-PLUS camera can be added to the wireless system TINY-W³ (composed of a TINY-W³ camera and a BLACKBOX-D controller). Up to 10 cameras can be combined to a single controller.

Use the ↑ and ↓ buttons to navigate in the interface and modify the selection, the OK button to select and the � button to return to the previous menu.

PHOTO
Allows the user to take photos. When the PHOTO mode is selected, the test light in front of the camera will flash for 60 seconds to allow the user to leave the area without being photographed.

VIDEO
Allows the user to take videos. When the VIDEO mode is selected, the test light in front of the camera will flash for 60 seconds to allow the user to leave the area without being recorded.

TEST
Allows the user to test the detection system of the camera. When TEST mode is selected, no photo or video is recorded. Walk perpendicularly in front of the camera. When the camera detects a movement, the light blinks to indicate that normally, a photo or video would have been recorded. If the system does not detect the movement, increase the detection distance using the "Sensitivity" option in the settings menu. Realign the camera can also be required. In TEST mode, it is possible to take a photo by pressing the OK button. The photo is saved and appears in the VIEW mode.

INSTALLATION WITH THE SUPPLIED STRAP
Use the mounting bracket slot for installation strap to fix the camera. The dimensions of the strap (included) is 1" X 60".
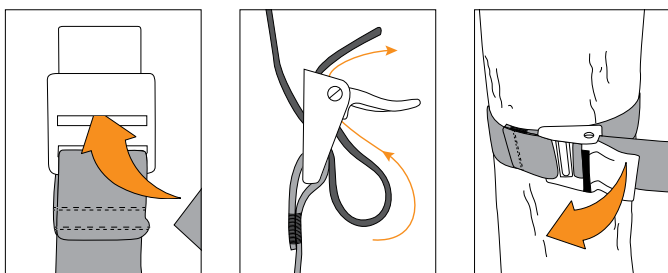
⚠ Recommended installation height: about 3 feet above the ground.
Do not place the camera facing the sun.

SETTINGS
Allows the user to change the different settings. To set the system in English, hold the button ↓ until "Language" is highlighted. Press OK, select "English" with the button ↑ or ↓ and confirm the choice with OK. The system will then change the menus to English.

Camera ID: (TINY-PLUS, TINY-W³)

Allows the user to assign a name to the camera (maximum 8 characters).

Start time/Stop time:

Allows the user to set the operation period of the camera. The start and stop time programmed hours are the hours during which the camera is in action and records photos or videos. Example: If the user selects "15:00" start time and "19:00" stop time, the camera will only detect for that period of time and will stay inactive for the remaining hours. Press OK and use ↑ or ↓ to adjust the hours. Press OK again to set the minutes. When the time is properly set, press OK.

For a 24 hour activation, the same start and stop times must be entered (example: 00:00 as start time and 00:00 as stop time. These hours are the basic settings of the camera.

Note: The hours are recorded over a 24-hour period. For example, 5pm is 17:00 (00:00 means midnight).

Wireless: (TINY-PLUS, TINY-W^{BF}, TINY-W^3)
(On/Off)

Enables or disables the wireless transmission of photos to the BLACKBOX receiver (TINY-W^{BF}), to the BLACKBOX-D controller (TINY-PLUS, TINY-W^3).

When the transmission is enabled:
• Only photos are transmitted to the receiver and to the controller, not videos.
• The quality of the photos recorded on the receiver and the controller is reduced to maximize transmission:

     8 or 10MP = 800 x 600 pixels
     5MP = 640 x 480 pixels
     3MP = 320 x 240 pixels

• When the TIME LAPSE mode is enabled, the photos are sent to the receiver and to the controller except for the "30s" setting.
• When the delay setting "10s" is selected, the time between each detection is calculated when the transmission is completed. For example, if the transmission takes two seconds, the time between the two detections is 12 seconds.

Note: When the "Wireless" option is activated, it is only possible to take up to 2 consecutive shots (TINY-PLUS, TINY-W^3).

Delay:
(10s/1m/3m/5m/10m/15m/30m)

Allows the user to choose the time interval between each detection before the camera records the next photo or video. A longer delay minimize the number of photos taken and maximize the battery life. A shorter delay maximize the number of photos taken but requires more battery power. The shorter times interval are recommended when the cameras is used for security purposes.

Additional setting:
It is possible to decrease the delay between detections to 10 seconds (instead of 1 minute) by using the following procedure.

⚠ Note that the battery life will be affected.

1. Turn OFF the camera.
2. Press and hold the ↑ button and turn ON the camera.
3. "10sec enabled" appears on the screen meaning the minimum delay is now 10 seconds. If this option is used, the 30 minute delay disappears.
4. To reset the camera to 1 minute delay, follow the same procedure. "10sec disabled" appears on the screen. (see next figure)

    10 s delay   1 min delay
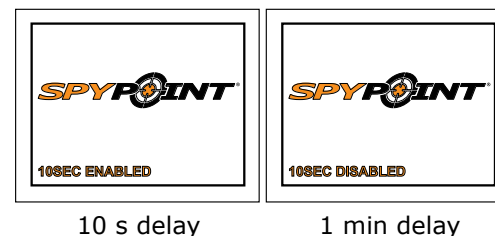
Multi-shot:
(1/2/3/4/5/6 consecutive shots)

Takes up to 6 consecutive shots at each detection, with a 10-second delay between each photo. This option allows the user to get up to 6 photos from different angles when the camera is in PHOTO mode.

Note: When the "Wireless" option is activated, it is only possible to take up to 2 consecutive shots (TINY-PLUS, TINY-W^3).

Video length:
(10s/30s/60s/90s)

Allows the user to select the duration of the recording when the camera is set in VIDEO mode.

Language:
(English/Français/Deutsch/Italiano/Español)

Allows the user to select a language for the camera menus.

Sensitivity:
(Low/Medium/High)

Allows the user to choose the detection sensitivity of the camera. A higher sensitivity allows the user to take more photos.

The camera will only detect sources of heat in movement. Make sure to have the least possible objects in front of the camera during the positioning. This prevents the camera to take photos when oriented towards the sun while an object moves in front of the camera (e.g. a branch).

Date:

Allows the user to set the date as Month/Day/Year.

Time format:
(12h/24h)

Allows the user to select the time display over a period of 12 or 24 hours on the photos. (e.g. 6:00 pm or 18:00)

Time:

Allows the user to set the time as Hour/Minute.

Stamp:
(Yes/No)

Allows the user to have date, time, temperature and moon phases printed on the photos.

New moon:
Waxing Crescent:
First Quarter:
Waxing Gibbous:
Full moon:
Waning Gibbous:
Last Quarter:
Waning crescent:

Quality:
(Low/Medium/High)

Allows the user to set the photo resolution. The low resolution allows the user to save space on the card and the high resolution allows the user to get a better photo quality.

When the quality is set to "High", the video resolution is automatically set to 1280 x 720 or 640 x 480 (TINY-W^{BF}) and when is set to "Medium" or "Low", the video resolution is automatically set to 640 x 480 or 320 x 240 (TINY-W^{BF}).

Temperature:
(°C/°F)

Allows the user to select the temperature display.

Continuous:
(Yes/No)

Allows the user to take photos or videos even if the memory card is full. The camera will continue to record photos or videos by deleting the first recorded files.
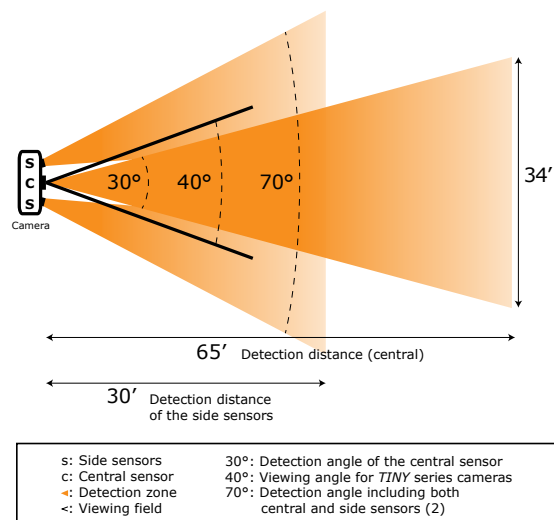
Power:
(Batteries/Electricity)

Allows the user to select the type of power supply.

Choose "Electricity" if the camera is powered by a main electric power supply (using a 12-volt DC adapter, #AD-12V, sold separately. A main electric power supply is recommended when camera is used for security purposes. It provides an instant trigger time when a movement is detected. The lithium battery pack and the AA batteries can remain safely inside the camera and it is ideal for blackouts. A 12-volt DC adapter that can provide a minimum of 800 mA is required (p.33).

Note: When using a main electric power supply, the MULTI-SHOT mode and the DELAY option are disabled as the camera triggers instantly every time it detects motion. Also, the printing of the temperature on each photo is disabled.

Side sensors:
(On/Off)

When the side sensors are activated, a total of 7 zones are covered. The central sensor covers 5 zones. The side detectors are mainly used to pre-pare the camera so when your target passes through the central sensor, the system is already pre-triggered, increasing greatly the reaction time of your camera (ideal when the camera is placed near a narrow trail).

s: Side sensors	30°: Detection angle of the central sensor
c: Central sensor	40°: Viewing angle for *TINY* series cameras
◄: Detection zone	70°: Detection angle including both
<: Viewing field	central and side sensors (2)

⚠ The side sensors require more battery power.

Time lapse:
(Off/30s/1m/3m/5m/15m/30m/1h)

Allows the camera to take photos at regular preset intervals. For example, if the option "5m" is selected in the TIME LAPSE mode, the camera takes a photo every 5 minutes during the period of operation (start time and stop time) even if there is no detection. This option allows the user to obtain photos of game outside the detection range of the camera.

Note: The TIME LAPSE mode only applies in PHOTO mode, not in VIDEO mode. When TIME LAPSE mode is selected, the DELAY option and the MULTI-SHOT mode are disabled.

REPORT

The report mode keeps a record of the last period of use of the camera and indicates the battery level (4/4=full). The beginning date corresponds with the moment the camera is set to either PHOTO or VIDEO mode. Thus, the report is reset when changing modes.

1.
2.
3.
4.

5.
6.
7.
8.
9.

1. Beginning and end date of the report
2. Number of photos or videos taken during the day
3. Number of photos or videos taken at night
4. Total of photos or videos taken
5. Current time of the camera
6. Current date of the camera
7. Battery level (1/4 = low, 4/4 = full)
8. Remaining space on the SD card estimated by a number of photos
9. Used space on the SD card (total number of files, only includes photos and videos taken by a SPYPOINT camera)

VIEW

Allows the user to view or delete recorded photos and videos on the camera screen or on a television.

• Viewing with the screen of the camera:
When the VIEW mode is selected, the latest photo or video recorded appears on the screen automatically. Press ↑ or ↓ to view next or previous images.

Press OK to view the different options available.

Play:	Allows the user to play or pause the video on the screen. (This option is available only for videos)
Date and time:	Allows the user to view the date and time printed on the photo.
Protect:	Allows the user to protect a photo or video to prevent it from being deleted by selecting "Delete All".
Delete:	Allows the user to erase from the memory card, the photo or the video seen on the screen.
Delete all:	Allows the user to erase from the memory card all stored photos and videos, with the exception of protected files.
Format:	Allows the user to format memory card and delete all protected photos and videos.
Exit:	Allows the user to exit the menu to return to the viewing screen.

Note: The number of yellow stars that appear to the right of the screen corresponds to the resolution of the photos.
★=Low resolution   ★★=Medium resolution   ★★★=High resolution

• Watching on TV:
Allows the user to view or delete the photos or videos directly on a TV.

1. Turn on the camera.
2. Connect the yellow end of the RCA cable supplied into the VIDEO IN of the TV and the other end into the TV OUT of the camera. The options are the same as viewing on the screen of the camera (previously mentioned).

SIGNAL (TINY-PLUS, TINY-W^BF, TINY-W³)

Allows the user to test the wireless signal and to synchronize the camera with BLACKBOX systems.

MEMORY CARD

A memory card is required to operate the controller. The controller is compatible with SD/SDHC memory cards, up to 32 GB capacity (sold separate).

When the controller's memory card is full, the transmission and recording of photos continue by clearing the first recorded photos on the memory card.

When the START BLACKBOX option is selected and no memory card is used, the screen indicates to insert a memory card. The BLACKBOX-D controller also beeps. When the SD card is full, the screen displays "Memory card full".

Here is a table of the approximate number of photos that can be recorded with different memory card capacities.

	4 GB	8 GB	16 GB	32 GB
Photo				
3 MP	20500	41000	82000	164000
5 MP	17000	34000	68000	136500
10 MP	9500	19000	38000	76000

INSERTING THE MEMORY CARD

Insert a SD/SDHC memory card (up to 32 GB capacity) in the card slot. The card is inserted correctly when a click is heard.

⚠️ Before inserting or removing a memory card, always turn off the controller to prevent loss or damage of the photos already recorded.

REMOVING THE MEMORY CARD

Lightly press the memory card into the controller once to pop it out of the slot and remove it.

«BUSY» DEL

The «BUSY» light, located above the screen, lights up when the controller records a file.

By default, the TINY-W^{BF} camera is synchronized with its receiver on **channel 1** and the icon SYNC is green. (see SIGNAL mode in menu)

| Channel   1 | + | Sync |

To change the synchronization channel or to add other sets (TINY-W^{BF} camera/BLACKBOX receiver) in the same area, refer to the MANUALLY SYN-CHRONIZING ONE OR MULTIPLE SETS IN THE SAME PERIMETER section.

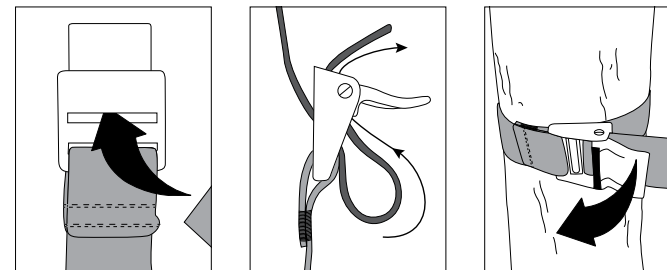## INSTALLATION OF THE RECEIVER AND THE CAMERA

The strength of the wireless signal varies depending on the orientation of the receiver. We strongly recommend installing the receiver on the same side of the antenna of the camera (see figure below).
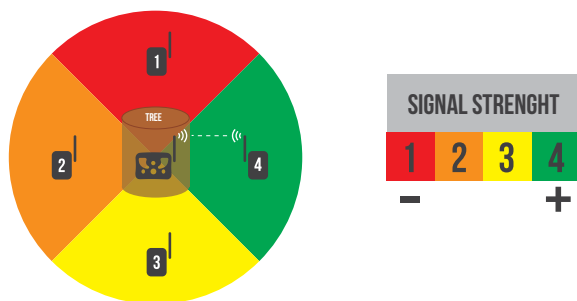
For best results, the antennas of the two devices must also point upwards and their respective height should be approximately the same (see figure below).
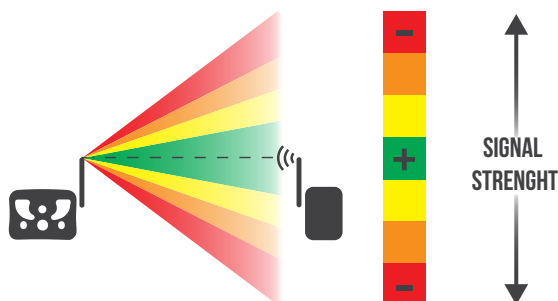
INSTALLATION WITH THE SUPPLIED STRAP

WIRELESS SIGNAL TEST

The quality of the wireless signal between the TINY-W^{BF} camera and the BLACKBOX receiver can be checked on the camera. Perform the range test after the final installation of the devices. To see the wireless signal icon on the main menu, the WIRELESS option in Settings should be on.

1-Select the SIGNAL mode.
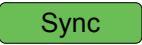
2-Select the Range test option. | Range Test |

If the icon of the wireless signal is red, the signal is too weak. Move the receiver or bring it closer. If the icon of the wireless signal is green and stays green for at least 10 seconds, the signal is strong and stable enough to enable wireless transmission of photos to the receiver.

Note: If the receiver is turn off and not synchronized with the camera, the signal icon remains red.

MANUALLY SYNCHRONIZING ONE OR MULTIPLE SETS (TINY-W^{BF} CAMERA/BLACKBOX RECEIVER) IN THE SAME PERIMETER

To change the synchronization channel or to install one or many sets (TINY-W^{BF}/BLACKBOX receiver) in the same area of transmission, it is necessary to manually synchronize each camera with its receiver on a different channel.

1. Turn on the first camera and choose the SIGNAL mode. [((•))]

2. Turn on the first BLACKBOX receiver.

3. Choose the [Channel 1] option on the camera and press OK.

4. Use the ↑ and ↓ buttons to select a channel and press OK.

5. Choose the [Sync] option on the camera and press OK.

6. The camera synchronizes with the powered receiver and the icon Sync goes from red to green when the synchronization [Sync] is complete.

7. Turn off the camera and the corresponding receiver.

8. Repeat these steps for each additional set, up to 9 sets (TINY-W^{BF}/BLACK-BOX receiver) can be matched in a same perimeter of 250ft.

Note: In the minute following turning on the receiver, the test light of the receiver flashes. The first 8 seconds allows the user to know the battery status. Then for the rest of the time, the test light flashes rapidly to indicate the synchronization period.

Note: After a synchronization or when the test light turns off (after 60 seconds), the receiver can't be synchronized unless it is turned off and on again.

BLACKBOX-D AND CAMERA INSTALLATION

The strength of the wireless signal varies depending on the orientation of the controller. We strongly recommend installing the controller on the same side of the camera's antenna (see figure below).
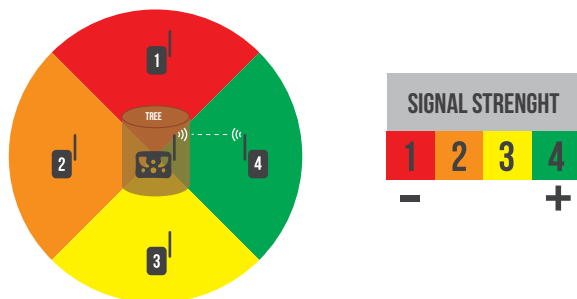
For best results, the antennas of the two devices must also point upwards and their respective height should be approximately the same (see figure below).
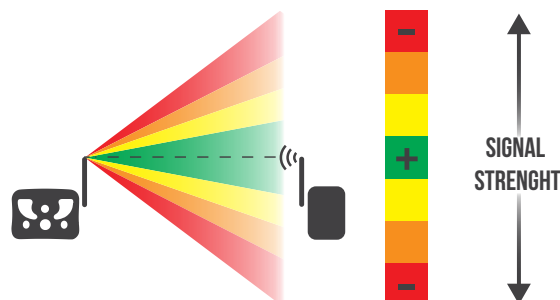
INSTALLATION WITH THE SUPPLIED STRAP
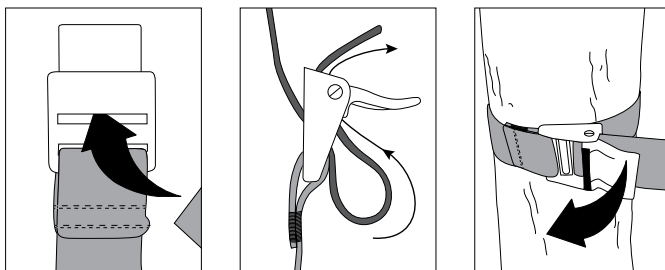
MAIN MENU

Use the ↑ and ↓ buttons to navigate in the interface and to modify the selection. Use the OK button to select and the BACK button to return to the previous menu.

Note: When the controller is left inactive for more than 2 minutes on the main menu, it automatically resets itself to "START BLACKBOX" mode. To return to the main screen, turn off the controller and turn it on again.

SIGNAL

Allows the user to synchronize a new camera to a BLACKBOX-D controller, see SYNCHRONIZE A NEW CAMERA TO THE CONTROLLER section. Also allows to add other sets (camera/BLACKBOX-D) in a same area, see USING MULTIPLE CONTROLLERS IN THE SAME AREA section.

By default the TINY-W^3 camera, supplied with the BLACKBOX-D, is already synchronized to the controller as CAMERA 01 in groupe 1 and the camera icon is green. Each additional camera (TINY-PLUS) must be synchronized with the BLACKBOX-D. To see the wireless signal icon on the main menu, the WIRELESS option in SETTINGS should be on.

START BLACKBOX-D

Select this option when the controller and camera(s) have been configured and synchronized. The controller is now ready to receive photos from the synchronized camera(s).

Note: When this option is selected, the controller screen turns off in order to preserve battery life. To return to the main screen, turn off the controller and turn it on again.

SETTINGS

Allows the user to configure the different parameters of the synchronized cameras.

1. When SETTINGS is selected, the complete list of options in the menu is displayed. If more than one camera is synchronized to the controller, choose the one that is to be changed.

2. Make the desired changes and press OK to confirm.

3. Press the BACK button to send the new parameters to the camera.

4. The message "Sending Settings" appears on the screen of the BLACK BOX-D and the screen of the camera shows "Receiving". The controller returns to the main menu when the changes are successful.

REMOTE

Allows the user to see the camera status, to start/stop the camera, to verify the quality of the wireless signal and to have an overview of the field of view of the camera in real time. If more than one camera is synchronized to the controller, choose one from those available.

Get camera status

Indicates the battery level and the percentage of used space in the memory card of the camera.

Start/stop caméra

Allows the user to remotely stop or restart photos taking. These options can be used if the user is working in the zone of detection of the camera and he doesn't want photos to be taken. When finished, he can remotely restart the camera to continue taking photos.

Range test

Allows the user to check the quality of the wireless signal between the camera and the controller. If the icon of the wireless signal is red, the signal is too weak. Bring closer or move the controller. If the icon of the wireless signal is green and stays green **for more than 10 seconds**, the signal is strong enough and stable to enable wireless transmission of photos to the controller.

Note: The message "Waiting for camera" appears on the screen of the BLACKBOX-D if the controller is not synchronized with the camera or if the wrong camera ID is selected.

Live view

Allows a live preview of the field of view of the camera in real time (1 photo per second is sent to the controller). Press the BACK button to return to the previous menu.

⚠ This mode requires more battery power.

Note: The preview can also be on a TV using the TV-OUT port of the controller (see View section).

VIEW

Allows the user to view or delete the recorded photos on the controller screen or on a television.

● **Viewing with the screen of the controller:**

When VIEW mode is selected, choose the name of the desired camera and press OK. The last recorded photo automatically appears on the screen. Press ← or → to view the next or previous. Press OK to view the different options available.

Date and time:	To view the date and time printed on the photo.
Protect:	Allows the user to protect the photo to prevent it from being deleted by selecting "Delete All".
Delete:	Allows the user to erase from the memory card, the photo seen on the screen.
Delete all:	Allows the user to erase from the memory card, all stored photos, with the exception of protected photos.
Format:	Allows the user to format memory card and delete all protected photos.
Exit:	Allows the user to exit the menu to return to the viewing screen.

Press the ↑ to enlarge the photo on the screen or ↓ to return to the original size. When the photo is enlarged, press OK to allow movement in the photo. Then use the navigation buttons to explore different parts of the photo. To disable the mouvement mode, press OK again.

Note: The number of yellow stars that appear to the right of the screen corresponds to the resolution of the photos stored in the BLACKBOX-D.

★=Low résolution   ★★=Medium résolution   ★★★=High résolution

• Watching on TV:

Allows the user to view or delete the photos directly on a TV.

1. Turn on the controller.
2. Connect the yellow end of the RCA cable supplied into the VIDEO IN of the TV and the other end into the TV OUT of the controller. The options are the same as viewing on the screen of the controller (previously mentioned)

SYNCHRONIZE A NEW CAMERA TO THE CONTROLLER:

Preparing the camera:

1. Set the name of the camera:
   • When SETTINGS is selected, choose "Camera ID" and press OK.
   • Determine the name of the camera by pressing the ↑ or ↓ buttons to change the letter and press OK to go to the next space.

2. Continue changing other parameters of the camera as needed.

3. To enable communication with the controller:
   • While still in the SETTINGS menu, select "Wireless" option and press OK.
   • Select "On" and confirm the selection by pressing OK; then on BACK to return to the previous menu.

4. Select the SIGNAL mode and press OK. The camera searches for the controller.

Preparing the BLACKBOX-D controller:

1. Select the SIGNAL mode .

2. Press on "Add new camera" (to see this option, select a blue camera icon using ← or → buttons. The "Sync" icon changes from red to green in the camera screen when synchronization is successful.

Notes:

• It's possible to synchronize up to 10 cameras to a single controller.

• If the name of the camera is changed, it is necessary to resynchronize the devices by following the steps in the PREPARING THE CAMERA and PREPARING THE CONTROLLER sections.

• The "Reset All" option allows to find the original settings.

• It is possible to easily retrace the BLACKBOX-D controller with a buzzer signal by pressing the FN button on the RC-1 remote control. The remote control must be previously synchronized with the camera, which communicates with the controller. The remote control (sold separately) is part of the product line compatible with the REMOS technology.

USING MULTIPLE CONTROLLERS IN THE SAME AREA:

When multiple controllers are installed in the same area of transmission, it is necessary to manually synchronize each controller with it's camera(s) in a different group.

To do this:

1. On the controller, select the SIGNAL mode and press OK.

2. Hold down the → button for 3 seconds to reach the group option located in the upper right corner of the screen controller and press OK.

3. Use ↑ or ↓ buttons to assign a new group to each additional controller (maximum 5 BLACKBOX-D) and press OK.

4. Synchronize the cameras to the new group (follow the steps in the PREPARING THE CAMERA and PREPARING THE BLACKBOX-D CONTROLLER sections.

Note: A camera cannot be synchronized to multiple controllers.

SOUND RECORDING

The SPYPOINT camera offers the possibility to record sound in VIDEO mode. When the VIDEO mode is selected, the camera automatically records the sound. Under the camera, you will find a rubber cap with the inscription MIC. If the user does not want to record the sound, the rubber cap needs to stay in place. If sound recording is required, the user must lift the rubber cap and turn it slightly so that the microphone receiver is completely cleared (See figure below).

EXTERNAL TRIGGERING

1/8" input which triggers the taking of photos or videos using a normally open contact.
Example: Using a magnetic door contact connected to an alarm system (see figure below). 1/8" Mono connector not included.
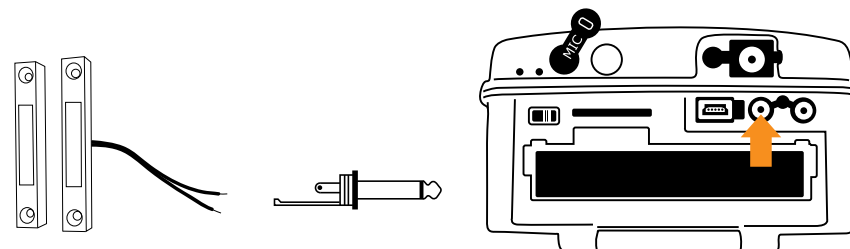
Weld the two wires of a door contact to a 1/8" mono connector.

Insert the connector in the external trigger jack of the camera.

To transfer photos/videos to a computer:

1. Turn OFF the camera.
2. Connect the USB cable (supplied) from the camera to a computer

3. The computer will detect the camera and install the driver automatically.
4. Click on "My Computer" and select "Removable Disk".
5. Then click on "DCIM" and "100DSCIM" to find all your photos and videos.
6. Drag or save the files to the desired location.

Taking the memory card (sold separately) out of the camera and inserting it into the computer slot will achieve the same results.

To transfer photos to a computer, remove the memory card (sold separately) out of the receiver or the controller and insert it into the computer slot.
1. Click on "My Computer" and select "Removable Disk".

MEMORY CARD

2. Then click on "DCIM" and "100DSCIM" to find all the recorded photos.
3. Drag or save the files to the desired location.

The names of the photos recorded by the camera and the BLACKBOX-D controller start by **PICT** while those stored in the BLACKBOX receiver starts by **PICW**. The BLACKBOX-D controller creates a folder for each synchronized camera and automatically class photos to different folder.

Problem	Possible solutions
Impossible to turn on the camera	• Verify if there are batteries in the camera. • Verify if the batteries are correctly installed. • Verify if the battery switch position is positioned according to the power source. • Install the latest update (available on www.spypoint.com under SUPPORT section). • Replace alkaline batteries or recharge the lithium battery pack.
The screen of the camera turns off	• The camera may be set to PHOTO or VIDEO mode and the screen turns off after a period of 60 seconds in order to preserve battery life. • The camera automatically resets itself to PHOTO or VIDEO mode (depending of the latest mode used or selected) after 2 minutes of inactivity on the main menu. • To return to the screen, turn off the camera and turn it on again.
The camera beeps	• Insert a memory card.
The camera does not respond	• Remove the batteries and reinstall them. • Replace alkaline batteries or recharge the lithium battery pack.
The camera works, but is losing its time and date settings	• The time battery must be replaced.
Impossible to take photos/ videos	• Verify if there are batteries in the camera. • Replace alkaline batteries or recharge the lithium battery pack. • Memory card is full. • Verify if the camera is turned on.

Problem	Possible solutions
No person/animal on photos	• Sunrise or sunset can trigger the sensor. Camera must be re-orientated. • At night, the motion detector may detect beyond the range of the IR illumination. Reduce sensibility setting. • Small animals may trigger the unit. Reduce sensibility setting and/or raise height of camera. • Motion detector may detect animals through foliage. • If a person or animal moves quickly, it may move out of the camera's field of view before the photo is taken. Move the camera further back or redirect the camera. • Make sure the mounting post or tree is stable and does not move.
Red light in front of the camera blinks	• Camera is set in TEST mode. • Camera is set in PHOTO or VIDEO mode. The red light in front of the camera flashes for 60 seconds to allow the user to leave without being photographed or recorded.
The photos/ videos do not appear on the television	• Verify if the camera is correctly connected to the television using the RCA cable. • Verify if the memory card contains photos/videos.
The computer does not recognize the camera	• Verify if the camera is properly connected to the computer using the USB cable.
The computer can't play videos	• The .MP4 video format requires the use of a video player software compatible such as VLC, Windows Media Player or QuickTime.

Error message	Possible solutions
Insert memory card	The use of a memory card is required to record photos and videos.
Memory card full	• Delete the files or use a new memory card. • Afterwards, the "Continuous" option can be activated for a continuous recording.
Card error	The camera cannot access the memory card. • Turn off the camera and turn it on again • Remove the memory card and insert it again. • Verify if the gold contacts are clean. • Format the memory card.
Low battery	Appears on the screen just before the camera turns off. Recharge the batteries or insert new ones. Always verify the battery level before using the camera.
No image	There are no files to view. Verify if the memory card contains photos/videos.
Protected file	It is impossible to delete the file because it is protected. To delete this file and all the others, just format the memory card.

Problem	Possible solutions
Impossible to turn on the receiver	• Verify if there are batteries in the receiver. • Verify if the batteries are correctly installed. • Replace alkaline batteries.
The photos are not transferred to the BLACKBOX	• Synchronise together the BLACKBOX and the camera before use. • Verify the quality of the wireless signal with the option "Range Test". • Observe the maximum distance between the receiver and the camera (250 ft). • Install the latest update available for the receiver and the camera (available on www.spypoint.com under SUPPORT section).
The BLACKBOX receiver does not synchronize with the TINY-W^{BF} camera	• Bring closer the 2 devices. • Install the latest update available for the receiver and the camera (available on www.spypoint.com under SUPPORT section).
The range test of wireless signal does not work	• Verify if the receiver is turned on. • Synchronise together the BLACKBOX and the camera before use. • Bring closer the 2 devices. • Verify if the two antennas (BLACKBOX and camera) are pointing up and they are placed approximately at the same height. • Install the receiver on the same side of the camera's antenna to have a stronger signal.
The device takes water	• Verify if the cover is tightly closed. • Verify if the rubber ring is correctly installed. • Clean the rubber ring.

TROUBLESHOOTING

Problem	Possible solutions
Impossible to turn on the controller	• Verify if there are batteries in the controller. • Verify if the batteries are correctly installed. • Verify if the battery switch position is positioned according to the power source. • Install the latest update (available on www.spypoint.com under SUPPORT section). • Replace alkaline batteries or recharge the lithium battery pack.
The screen of the controller turns off	• The controller is ready to receive photos following the selection of the START BLACKBOX option in the menu. The screen turns off in order to preserve battery life. • The controller automatically resets itself after 2 minutes of inactivity on the main menu. • To return to the screen, turn off the controller and turn it on again.
The controller beeps	• Insert a memory card. • The emergency buzzer was activated with the RC-1 remote control.
The controller does not respond	• Remove the batteries and reinstall them. • Replace alkaline batteries or recharge the lithium battery pack.
The controller does not communicate with the camera	• Install the latest update available for the BLACKBOX-D controller and camera (available on www.spypoint.com under SUPPORT section). • Synchronize the controller with the camera.
The controller does not receive all the photos	• Bring closer the camera and make a test signal.
The controller works, but is losing its time and date settings	• The time battery must be replaced.
The controller takes water	• Verify if the controller is correctly closed. • Clean the rubber located inside the controller.
The photos do not appear on the television	• Verify if the controller is correctly connected to the television using the RCA cable. • Verify if the memory card contains photos.

ERROR MESSAGES

Error message	Possible solutions
Insert memory card	The use of a memory card is required to record photos.
Card error	The controller cannot access the memory card. • Turn off the controller and turn it on again • Remove the memory card and insert it again. • Verify if the gold contacts are clean. • Format the memory card
Low battery	Appears on the screen just before the controller turns off. Recharge the batteries or insert new ones. Always verify the battery level before using the controller.
No image	There are no files to view. Verify if the memory card contains photos.
Protected file	It is impossible to delete the file because it is protected. To delete this file and all the others, just format the memory card.

To obtain more information on the available accessories, go to **www.spypoint.com.** Here are the main accessories available:

POWER

12V DC Power cable
#CB-12FT, 12 ft power cable with alligator clips at one end to connect a 12V battery to a camera.

Lithium battery pack & charger
#LIT-C-8, Rechargeable lithium battery pack and AC charger with charge indicator light. Fits most SPYPOINT products.

12-volt Adaptor
#AD-12V, AC adaptor (6V to 12V). Powers the camera from an electrical outlet.

Universal power kit
#KIT6V-12V, Universal kit with 6V or 12V output. Compatible with all SPYPOINT products or any other products equipped with a 6V or 12V power jack. 6 connectors included to fit any device. Includes 6V (5.6Ah) and 12V (2.8Ah) output configuration and AC charger. Water resistant ABS plastic case, 12 ft power cable and strap included. Camo pattern.

Lithium battery pack
#LIT-09, Additional rechargeable lithium battery pack fits most SPYPOINT products.

Rechargeable 12V battery & charger set
#BATT-12V, 12-volt 7.0Ah rechargeable battery and AC charger to power the camera.

Rechargeable 12V battery, charger & housing kit
#KIT-12V, 12-volt 7.0Ah rechargeable battery with a water resistant ABS plastic case, AC charger, 12 ft power cable (#PW-12FT) and carrying strap included. Compatible with all SPYPOINT products equipped with a 12V power jack.

Solar panel
#SP-12V, Solar panel with adjustable steel mounting kit. Maintains the charge of the lithium battery pack directly into compatible devices. Can also be combined with any 12-volt battery. 9 ft power cable.

Spare power cable
#PW-12FT, Spare 12 ft power cable, to connect the camera to the KIT-12V.

MEMORY CARD

SD Memory card 8GB
#SD-8GB, SDHC memory card 8 GB, High speed Class 6.

SD Memory card 16GB
#SD-16GB, SDHC UHS-1 memory card 16 GB, ultra high speed Class 10.

TINY

INSTALLATION AND SECURITY

Cable lock
#CL-6FT, 6 ft cable lock fits all SPYPOINT cameras.

Camera mount
#MA-360, Adjustable mounting arm, fits all cameras that have a standard ¼-20" tripod mount. It can rotate 360° and tilt approx +/- 90°. Also available in black.

Tripod
#TP-CAM, SPYPOINT Lightweight tripod, in black aluminum, with a unique anchor system and a re-movable quick release plate. Max. height: 4.9 ft (1.5 m), min. height: 1.7 ft (0.5 m), max. load weight: 11 lbs (5 kg). Fits most SPYPOINT products.

Steel security box
#SB-T, Steel box to secure the ca-mera against theft. It also protects it from breakage caused by bears or other animals. Fits SPYPOINT cameras of the TINY series. Also available in black.

To obtain more information on the available accessories, go to **www.spypoint.com.** Here are the main accessories available:

POWER

12V DC Power cable
#CB-12FT, 12 ft power cable with alligator clips at one end to connect a 12V battery to the receiver.

Rechargeable 12V battery & charger set
#BATT-12V, 12-volt 7.0Ah rechargeable battery and AC charger to power the receiver.

12-volt Adaptor
#AD-12V, AC adaptor (6V to 12V). Powers the receiver from an electrical outlet.

Rechargeable 12V battery, charger & housing kit
#KIT-12V, 12-volt 7.0Ah rechargeable battery with a water resistant ABS plastic case, AC charger, 12 ft power cable (#PW-12FT) and carrying strap included. Compatible with all SPYPOINT products equipped with a 12V power jack.

Universal power kit
#KIT6V-12V, Universal kit with 6 volts or 12 volts output. Compatible with all SPYPOINT products or any other products equipped with a 6 volts or 12 volts power jack. 6 connectors included to fit any device. Includes 6 volts (5.6Ah) and 12 volts (2.8Ah) output configuration and AC charger.

Spare power cable
#PW-12FT, Spare 12 ft power cable, to connect the receiver to the KIT-12V.

Solar panel
#SP-12V, Solar panel with adjustable steel mounting kit. Maintains the charge of the lithium battery pack directly into compatible devices. Can also be combined with any 12-volt battery. 9 ft power cable.

MEMORY CARD

SD Memory card 8GB
#SD-8GB, SDHC memory card 8 GB, High speed Class 6.

SD Memory card 16GB
#SD-16GB, SDHC UHS-1 memory card 16 GB, ultra high speed Class 10.

To obtain more information on the available accessories, go to **www.spypoint.com.** Here are the main accessories available:

POWER

12V DC Power cable
#CB-12FT, 12 ft power cable with alligator clips at one end to connect a 12V battery to a controller.

Lithium battery pack & charger
#LIT-C-8, Rechargeable lithium battery pack and AC charger with charge indicator light. Fits most SPYPOINT products.

12-volt Adaptor
#AD-12V, AC adaptor (6V to 12V). Powers the controller from an electrical outlet.

Universal power kit
#KIT6V-12V, Universal kit with 6V or 12V output. Compatible with all SPYPOINT products or any other products equipped with a 6V or 12V power jack. 6 connectors included to fit any device. Includes 6V (5.6Ah) and 12V (2.8Ah) output configuration and AC charger. Water resistant ABS plastic case, 12 ft power cable and strap included.

Lithium battery pack
#LIT-09, Additional rechargeable lithium battery pack fits most SPYPOINT products.

Rechargeable 12V battery & charger set
#BATT-12V, 12-volt 7.0Ah rechargeable battery and AC charger to power the controller.

Rechargeable 12V battery, charger & housing kit
#KIT-12V, 12-volt 7.0Ah rechargeable battery with a water resistant ABS plastic case, AC charger, 12 ft power cable (#PW-12FT) and carrying strap included. Compatible with all SPYPOINT products equipped with a 12V power jack.

Solar panel
#SP-12V, Solar panel with adjustable steel mounting kit. Maintains the charge of the lithium battery pack directly into compatible devices. Can also be combined with any 12-volt battery. 9 ft power cable.

Spare power cable
#PW-12FT, Spare 12 ft power cable, to connect the controller to the KIT-12V.

MEMORY CARD

SD Memory card 8GB
#SD-8GB, SDHC memory card 8 GB, High speed Class 6.

SD Memory card 16GB
#SD-16GB, SDHC UHS-1 memory card 16 GB, ultra high speed Class 10.

36

Specifications (TINY-W3)

CAMERA

Photo recording	
Photo resolution	3 MP, 5 MP, 10 MP
File format	JPG
Time lapse mode	Predefined intervals from 30 s to 1 h
Multi-shot mode	Up to 6 photos per detection
Stamp **(only on photos)**	Date, time, temperature (°C/°F) and moon phase
Capture mode	Color by day, black and white by night

Video recording	
Video resolution	640 x 480, 1280 x 720
File format	AVI
Sequence length	Adjustable from 10 to 90 s
Capture mode	Color by day, black and white by night

Audio	
Sound recording (automatically recorded in video mode)	Mono

Memory storage	
Support	•Internal memory: none •External memory : SD/SDHC card (up to 32 GB)

Viewing	
Built-in screen	2.4" LCD
TV output	Composite video (PAL/NTSC)
Computer output	USB 2.0

Power source	
Accessories sold separately, p.33	
Alkaline or lithium batteries	6 x AA
Lithium battery pack	Rechargeable battery pack (LIT-09/LIT-C-8)
External (12V jack)	12V battery (KIT6V-12V, KIT-12V, BATT-12V) or 12V adapter (AD-12V)
Solar panel	Solar panel (SP-12V) combined with rechargeable battery pack (LIT-09/LIT-C-8)

Detection system	
Motion sensor	PIR
Detection angle of the main sensor	30°
Detection angle of the side sensors	70°
Detection range	Adjustable from 5 to 65 ft
Delay between each detection	Adjustable from 1 to 30 min *Additional 10 s setting
Electricity option	Instant trigger time (*Connection to an electrical outlet only)
External trigger	1/8" jack for normally open contact

Night time illumination system	
LEDs	38 LEDs
Type	Invisible LEDs
Exposure	Automatic infrared level adjustment

Optical field of view	
40°	

Dimensions	
4.7" W x 3.5" H x 2.7" D	

Recommandations	
Operating temperature	(-30 °C to + 50 °C) (-22 °F to +122 °F)
Storage temperature	(-40 °C to + 60 °C) (-40 °F to +140 °F)

Specifications (TINY-W3)

BLACKBOX-D CONTROLLER

Memory storage	
Support	• Internal memory : none • External memory : SD/SDHC card (up to 32 GB)

Viewing	
Built-in screen	2.4" LCD
TV output	Composite video (PAL/NTSC)

Power source	
Accessories sold separately, p.36	
Alkaline or lithium batteries	6 x AA
Lithium battery pack	Rechargeable battery pack (LIT-09/LIT-C-8)
External (12V jack)	12V battery (KIT6V-12V, KIT-12V, BATT-12V) or 12V adapter (AD-12V)
Solar panel	Solar panel (SP-12V) combined with rechargeable battery pack (LIT-09/LIT/C-8)

Dimensions
3.9" W x 4.7" H x 1.9" D

Wireless	
Wireless range	Maximum 500 ft (150 m) from camera to BLACKBOX-D controller (supplied with TINY-W³)

Recommendations	
Operating temperature	(-30 °C to + 50 °C) (-22 °F to +122 °F)
Storage temperature	(-40 °C to + 60 °C) (-40 °F to +140 °F)

Specifications (TINY-WBF)

CAMERA

Photo recording

Photo resolution	3 MP, 5 MP, 8 MP
File format	JPG
Time lapse mode	Predefined intervals from 30 s to 1 h
Multi-shot mode	Up to 6 photos per detection
Stamp **(only on photos)**	Date, time, temperature (°C/°F) and moon phase
Capture mode	Color by day, black and white by night

Video recording

Video resolution	320 x 240, 640 x 480
File format	AVI
Sequence length	Adjustable from 10 to 90 s
Capture mode	Color by day, black and white by night

Audio

Sound recording (Automatically recorded in video mode)	Mono

Memory storage

Support	• Internal memory : none • External memory : SD/SDHC card (up to 32 GB)

Viewing

Built-in screen	2.4" LCD
TV output	Composite video (PAL/NTSC)
Computer output	USB 2.0

Power source

Accessories sold separately, p.33	
Alkaline or lithium batteries	6 x AA
Lithium battery pack	Rechargeable battery pack (LIT-09/LIT-C-8)
External (12V jack)	12V battery (KIT6V-12V, KIT-12V, BATT-12V) or 12V adapter (AD-12V)

Solar panel	Solar panel (SP-12V) combined with rechargeable battery pack (LIT-09/LIT/C-8)

Detection system

Motion sensor	PIR
Detection angle of the main sensor	30°
Detection angle of the side sensors	70°
Detection range	Adjustable from 5 to 65 ft
Delay between each detection	Adjustable from 1 to 30 min *Additional 10 s setting
Electricity option	Instant trigger time (*Connection to an electrical outlet only)
External trigger	1/8" jack for normally open contact

Night time illumination system

LEDs	38 LEDs
Type	Invisible LEDs
Exposure	Automatic infrared level adjustment

Optical field of view

40°

Dimensions

4.7" W x 3.5" H x 2.7" D

Wireless

Wireless range	Maximum 250 ft

Recommendations

Operating temperature	(-30 °C to + 50 °C) (-22 °F to +122 °F)
Storage temperature	(-40 °C to + 60 °C) (-40 °F to +140 °F)

Specifications (TINY-WBF)

BLACKBOX RECEIVER

Memory storage	
Support	• Internal memory : none • External memory : SD/SDHC card (up to 32 GB)

Power source	
Accessories sold separately, p.35	
Alkaline or lithium batteries	6 x AA
External (12V jack)	12V battery (KIT6V-12V, KIT-12V, BATT-12V) or 12V adapter (AD-12V)

Dimensions
2.7" W x 3.5" H x 2.7" D

Specifications (TINY-PLUS)

Photo recording	
Photo resolution	3 MP, 5 MP, 10 MP
File format	JPG
Time lapse mode	Predefined intervals from 30 s to 1 h
Multi-shot mode	Up to 6 photos per detection
Stamp **(only on photos)**	Date, time, temperature (°C/°F) and moon phase
Capture mode	Color by day, black and white by night

Video recording	
Video resolution	640 x 480, 1280 x 720
File format	AVI
Sequence length	Adjustable from 10 to 90 s
Capture mode	Color by day, black and white by night

Audio	
Sound recording (Automatically recorded in video mode)	Mono

Memory storage	
Support	• Internal memory : none • External memory : SD/SDHC card (up to 32 GB)

Viewing	
Built-in screen	2.4" LCD
TV output	Composite video (PAL/NTSC)
Computer output	USB 2.0

Power source	
Accessories sold separately, p.33	
Alkaline or lithium batteries	6 x AA
Lithium battery pack	Rechargeable battery pack (LIT-09/LIT-C-8)

External (12V jack)	12V battery (KIT6V-12V, KIT-12V, BATT-12V) or 12V adapter (AD-12V)
Solar panel	Solar panel (SP-12V) combined with rechargeable battery pack (LIT-09/LIT/C-8)

Detection system	
Motion sensor	PIR
Detection angle of the main sensor	30°
Detection angle of the side sensors	70°
Detection range	Adjustable from 5 to 65 ft
Delay between each detection	Adjustable from 1 to 30 min *Additional 10 s setting
Electricity option	Instant trigger time (*Connection to an electrical outlet only)
External trigger	1/8" jack for normally open contact

Night time illumination system	
LEDs	38 LEDs
Type	Invisible LEDs
Exposure	Automatic infrared level adjustment

Optical field of view	
40°	

Dimensions	
4.7" W x 3.5" H x 2.7" D	

Recommandations	
Operating temperature	(-30 °C to + 50 °C) (-22 °F to +122 °F)
Storage temperature	(-40 °C to + 60 °C) (-40 °F to +140 °F)

Photo recording

Photo resolution	3 MP, 5 MP, 7 MP
File format	JPG
Time lapse mode	Predefined intervals from 30 s to 1 h
Multi-shot mode	Up to 6 photos per detection
Stamp **(only on photos)**	Date, time, temperature (°C/°F) and moon phase
Capture mode	Color by day, black and white by night

Video recording

Video resolution	640 x 480, 1280 x 720
File format	AVI
Sequence length	Adjustable from 10 to 90 s
Capture mode	Color by day, black and white by night

Audio

Sound recording (Automatically recorded in video mode)	Mono

Memory storage

Support	• Internal memory : none • External memory : SD/SDHC card (up to 32 GB)

Viewing

Built-in screen	2.4" LCD
TV output	Composite video (PAL/NTSC)
Computer output	USB 2.0

Power source

Accessories sold separately, p.33

Alkaline or lithium batteries	6 x AA
Lithium battery pack	Rechargeable battery pack (LIT-09/LIT-C-8)
External (12V jack)	12V battery (KIT6V-12V, KIT-12V, BATT-12V) or 12V adapter (AD-12V)
Solar panel	Solar panel (SP-12V) combined with rechargeable battery pack (LIT-09/LIT/C-8)

Detection system

Motion sensor	PIR
Detection angle of the main sensor	30°
Detection angle of the side sensors	70°
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External trigger	1/8" jack for normally open contact

Night time illumination system

LEDs	38 LEDs
Type	Invisible LEDs
Exposure	Automatic infrared level adjustment
Exposure	Automatic infrared level adjustment

Optical field of view

40°

Dimensions

4.7" W x 3.5" H x 2.7" D

Recommendations

Operating temperature	(-30 °C to + 50 °C) (-22 °F to +122 °F)
Storage temperature	(-40 °C to + 60 °C) (-40 °F to +140 °F)

FCC REGULATIONS

FCC Part l5

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the Federal Communications Commission (FCC) rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

> • Reorient or relocate the receiving antenna.
> • Increase the separation between the equipment and receiver.
> • Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
> • Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Hereby, GG Telecom declares that this camera is in compliance with the essential requirements and other relevant provisions of Directive 99/5/EC. The user can obtain a copy of the Declaration of Conformity by e-mail at **info@spypoint.com**.

RoHS

Limited warranty and repair

This SPYPOINT product designed by GG Telecom, is covered by a one (1) year warranty on material and workmanship starting from the original date of purchase. The sales receipt is the client's proof of purchase and must be presented if warranty service is needed. This warranty will be honored in the country of purchase only.

This GG Telecom warranty does not apply: (a) to consumable parts, including but not limited to batteries, which performance is designed to decrease over the course of time; (b) to damage caused by misuse, use with another product, neglect, accidents, liquid contact, fire, earthquake or any other external cause; (c) to GG Telecom products that have been purchased online from an unauthorized dealer; (d) to products that have had any modification or tampering; (e) to cosmetic damage including but not limited to scratches and broken plastic; (f) to damage caused by operating the GG Telecom product outside of GG Telecom's recommendations.

INSTRUCTIONS FOR REPAIR SERVICE

GG Telecom will repair the product without charge or replace it at its discretion with an equivalent product, if it has a manufacturing defect covered by the warranty described previously. GG Telecom will pay the shipping costs only for the return of the products covered by the warranty. The shipping costs for an item sent will be assumed by the customer.

Repairs for damages not covered by the warranty will be subject to a reasonable charge. The customer will pay all shipping costs.

1. BEFORE sending a product for repair, the costumer is welcomed to contact GG Telecom technical support team at 1-888-779-7646 or tech@spypoint.com and to clearly describe the problem and give a phone number where she or he can be reached. It happens regularly that some problems can be solved over the phone.
2. If a product needs to be sent, an RMA number will be given to the customer (Return Merchandise Authorization).
3. The original receipt or a copy must be sent along with the package.
4. The RMA number must be written on the outside of the package and sent to:

CANADA	United States
GG Telecom	GG Telecom
120 J.Aurèle-Roux	555 VT route 78
Victoriaville, QC	Swanton, Vermont
G6T 0N5	05488

IMPORTANT: Under no circumstances will GG Telecom accept returned products without a Return Material Authorization number (RMA). It is essential to contact GG Telecom before making a return.

The customer is liable for loss or damage to the product that may occur during the transport to GG Telecom. We recommend the use of a traceable method of shipping to ensure protection.

WWW.SPYPOINT.COM