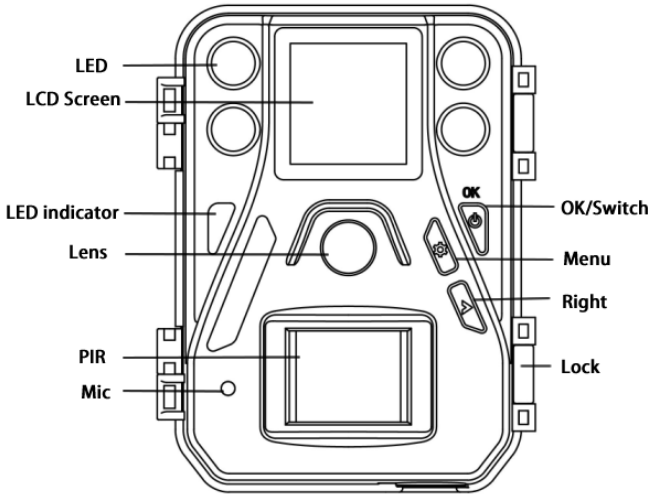
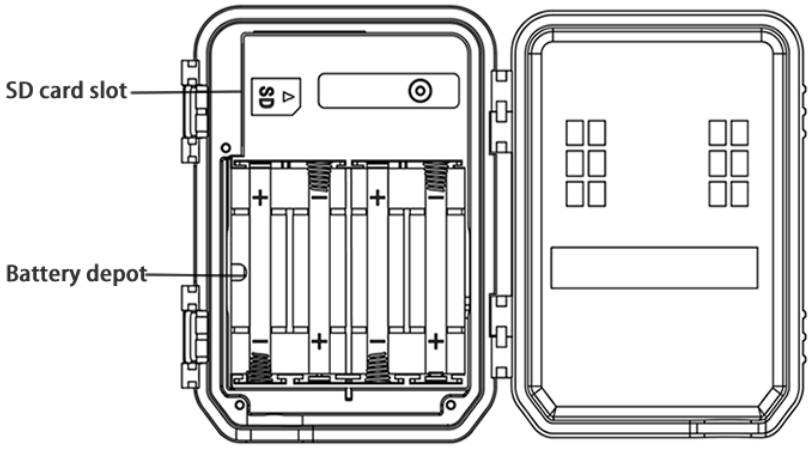
Table of Contents

1. Getting Started 1
2. Camera Operations 2
2.1 Batteries / Power Supply 2
2.2 SD Card Information 2
2.3 Wi-Fi Functionality (Model SG520-W only) 2
2.4 Camera Modes 3
2.5 Trigger Modes 3
3. Camera Setup Settings & Display 4
3.1 Settings Interface & Display 4
3.2 Manual Image / Video Capturing 4
3.3 Manage Images and/or Videos 4
3.4 Camera Setup Options 5
4. Technical Specifications 6

1. Getting Started





2. Camera Operations

2.1 Batteries / Power Supply

The camera is powered by four or eight AA batteries - High-density, high-performance alkaline, rechargeable Alkaline or NiMH batteries are recommended. When the batteries are low, the camera will beep twice and automatically shut down.

A DC 6-Volt, 2 Amp external power supply adapter can also be used to power the camera (not included).

2.2 SD Card Information

- **Insert the SD card into the camera before turning on the camera**
  This camera supports up to a 32GB capacity SD card and has no built-in internal memory. The camera will not function without the SD card properly inserted into the camera.

- **Make sure the SD card is unlocked before inserting the SD card into the camera**
  The camera will operate normally with a locked SD card inserted, but the card will not be able to store captured images or videos taken by the camera.

- **Do not remove the SD card while the camera is on**
  By removing the SD card while the camera is on risks damaging the internal components of the camera.

- **If you experience any problems with an inserted SD card**
  Try reformatting the SD card, utilizing the camera's main settings option.

2.3 Wi-Fi Functionality (Model SG520-W only)

For camera model SG520-W, WIFI functionality is supported via the WIFI-SD card included with the camera and utilizing the FlashAir application on your mobile device or PC.

For Apple/Android devices:

- Download and install the FlashAir App on your mobile device through the Apple Apps store or Google Play.
- When the camera is turned on in any mode, press the ON button on the remote to turn on the cameras WIFI.
- Search for the WIFI signal on your device and enter the WIFI password to connect. The default password is 12345678
- Open the FlashAir APP

For PC:

- Go to the website: http://www.toshiba.co.jp/p-media/wwsite/flashair.htm
- Click the Configuration Software Download option and save the file on your computer
- Execute the downloaded file and install

2.4 Camera Modes

The different modes are accessed by pressing the OK button, marked on the camera:

- **OFF Mode**
  To turn off the camera, when the display screen is active, press and hold the OK button until the screen powers off. The camera will still consume a small amount of power while in OFF mode. It is recommended to remove the batteries if the camera will not be used for a long period of time.

- **ON Mode**
  To turn on the camera, press and hold the OK button, until the display screen activates. Camera will take pictures or video when motion is detected and/or at specific time intervals, according to the programmed settings. After switching the camera to the ON position and if the camera is left alone for more than 10 seconds, the camera will automatically switch to *Hunting Mode*, as described below.

- **Hunting Mode**
  This mode is when the camera is turned on and is now available to capture photos and video. Hunting mode is automatically activated, if the camera is turned on and left alone for more than ten seconds. Before activating hunting mode, the motion indicator LED (red) will blink for about 10 seconds and then turn off. This preset time allows you to adjust the cameras position if needed, before the camera becomes active. To “wake” the camera and access the camera menu functions, press and hold the OK button, until the display becomes active.

2.5 Trigger Modes

There are 3 different trigger modes for the camera: PIR Trigger/Sensitivity, Time Lapse, and a combined PIR/Time Lapse mode. These modes are activated by three different menu options (PIR Trigger/Sensitivity, PIR Interval, and Time Lapse).

- **PIR Trigger/Sensitivity**
  The camera will activate when motion is detected. If the PIR Trigger/Sensitivity option is set to OFF, the camera will not respond to any motion within the camera’s range.

- **Time Lapse**
  The camera will activate at the set time interval regardless of motion detection. If the Time Lapse option is set to OFF, this trigger function will be disabled.

- **Combined PIR/Time Lapse**
  For the combination of both PIR and Lapse triggering, the following settings must be set correctly:

  - PIR Trigger/Sensitivity must NOT be set to OFF
  - The Time Lapse interval must be set to a non-zero value.

  The camera will capture pictures or video when motion is detected and at the preset time, regardless of motion detection.

Additional PIR settings to note:

- **PIR Interval**
  This setting indicates how long the PIR sensor will be disabled after each camera triggering. During this interval time, the camera will not react to any detected motion or activate at the scheduled Time Lapse interval.

Further detailed information about the trigger modes can be found in *Camera Setup Options* section of the manual.

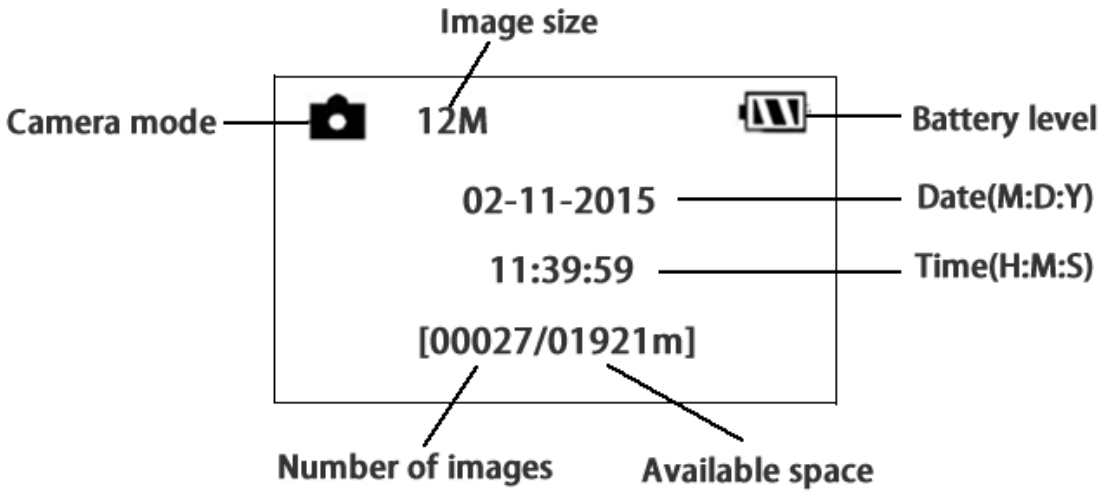
3. Camera Setup Settings & Display

3.1 Settings Interface & Display

To update the camera settings, turn the camera on to activate the display screen.

- OK/Power: Save parameter settings and view pictures
- Settings/Sprocket: Switch between Test/Setup and On modes
- ►: Capture a photo or record a video manually

When the camera is in ON Mode, the screen will activate and display the following:



3.2 Manual Image / Video Capturing

Place the camera in ON mode and press ► to manually capture photos or record video. Press ► again to stop capturing video.

3.3 Manage Images and/or Videos

Place the camera in TEST/SETUP mode and press OK/POWER button to view images or videos.

The latest image or video will be shown on the LCD screen. Press the ► or OK/POWER buttons to cycle through the pictures and videos taken.

NOTE: Video cannot be viewed directly through the camera.

3.4 Camera Setup Options

To view the camera settings menu, slide the power switch to TEST/SETUP mode and press MENU on the remote. Use ▲ or ▼ keys to select the sub-menu. Use ◄ or ► keys to select the different options. Press “OK” to save the settings.

After changing EACH setting in the Setup menu, you must press OK or the camera will retain the previous setting.

Dependent on the model and firmware version, not all Menu options may be available on your specific camera.

Menu Options	Descriptions
Language	Choose the language you prefer. Language options include: English, Finnish, German and Swedish, French, Spanish and Czech. **Default: English**
Camera Mode	Choose between capturing images, videos or both at the same time: Photo, Video, Pic+Video **Default: Photo**
Set Clock	Set the cameras date and time. The date format is month/day/year. The time format is hour: minute: second. The valid values for the year is between 2015 and 2050.
Photo Size	Choose the image size: 5MP, 10MP, or 12MP (mega pixel) options are available. **Default: 12 MP**
Photo Burst	Choose the number of photos taken after the camera is triggered: 1 Photo, 2 Photo, or 3 Photo. *If Pic+Video is selected, Photo burst defaults to 1 photo, regardless of entered value.* **Default: 1 Photo**
Video Size	Choose the video size: 1280x720 or 640x480. **Default: 1280 x 720**
Video Length	Choose the duration of the video recording: Valid values extend from 10, 30 or 60 seconds with a one second delay. **Default: 10 seconds**
Time Lapse	The camera can capture images or videos at a preset time interval regardless of motion detection. Changing this setting to a non-zero value turns on Time Lapse mode and the camera will take photos at the set interval time *If PIR Trigger/Sensitivity and Time Lapse options are BOTH OFF, the camera will not capture any photos or videos.* **Default:OFF**
PIR Trigger/Sensitivity	This setting is for the sensitivity of the PIR sensor. There are four sensitivity parameters: High, Normal, Low and Off. It is recommended to use HIGH sensitivity in areas with little environmental interference and also for warmer, humid temperatures or climates. Use LOW sensitivity for areas that have a lot of interference. The sensitivity of the PIR is effected by temperature. Higher temperatures leads to lower sensitivity. *If PIR Trigger/Sensitivity and Time Lapse options are BOTH OFF, the camera will not capture any photos or videos.* **Default: Normal**
PIR Interval	This setting indicates how long the PIR sensor will be disabled after each camera triggering. During this time the PIR sensor will not react to any detected motion or scheduled timer functions. The PIR Interval can be set between zero seconds to a maximum of 1 hour. Press LEFT or RIGHT to decrease or increase the desired PIR Interval time. **Default: 5 seconds**

Menu Options	Descriptions
Format SD	All information on the SD card will be deleted. Make sure that you have made a backup of important data already on the SD card.
Version	Shows firmware and IMEI (International Mobile Equipment Identity) information of the camera.
Default Set (Default Settings)	Restore all settings back to the default values.

4. Technical Specifications

	SG520	SG520-W	SG520-BW
Picture Resolution	5/10/12 MP	5/10/12 MP	5/10/12 MP
Video Length	5 to 60 sec	5 to 60 sec	5 to 60 sec
Detection Range	85ft.	85ft.	85ft.
Illumination Distance	70ft.	70ft.	70ft.
Image Sensor	5MP Color CMOS	5MP Color CMOS	5MP Color CMOS
Aperture	ƒ/ 2.2	ƒ/ 2.2	ƒ/ 2.2
Field of View	55 Degrees	55 Degrees	55 Degrees
Trigger Time	< 1.2 sec		
Memory Card	32GB max		
Display Screen	Built-In 1.44” LCD	Built-In 1.44” LCD	Built-In 1.44” LCD
Photo Burst	1 to 3 photos*	1 to 3 photos*	1 to 3 photos*
Sound Recording	Yes	Yes	Yes
Operating Ambient Temperature	-20 degrees to + 60 degrees C		
Non-Operating Temperature	-30 degrees to + 70 degrees C		
Relative Humidity	5% to 90% noncondensing		
Dimensions	107x76x40 mm	107x76x40 mm	107x76x40 mm
Unit Weight	~ 0.18kg	~ 0.19kg	~ 0.18kg
Power Supply	4 AA batteries or 6v, 2A external power supply		
Standby Power Consumption	<300uA		
Compliances	FCC, CE, RoHS		

* When Camera Mode is set to Pic+Video, Photo Burst option automatically disables, resulting in only one picture captured along with the video. When Camera Mode is set to Photo, Photo burst option will operate normally as specified.

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