Infrared Mobile Digital Scouting Camera

# User Manual SG880MK-18mHD



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# **1.Getting Started**



When mounting the camera outdoors, use the strap that was included with the camera. Periodically clean the camera lens and PIR sensor to avoid dust build up, which can reduce picture quality, and check to make sure the mounting strap is not loose.

# **2.** Camera Operations

# 2.1 Batteries/ Power Supply

The camera is powered by four or eight AA batteries - High-density, high-performance, rechargeable Alkaline or NiMH batteries are recommended. When the batteries are low, the indication LED will blink twice, then the camera will 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

To take full advantage of the latest technologies, we recommend Class 10 SD cards or better, which have fast transfer speeds and long durability for extensive shooting in the most extreme outdoor conditions. Secure Digital High Capacity (SDHC) PRO cards work with SDHC compatible devices only. Please check that your product is compatible with SDHC cards.

# •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 if the SD card is not properly inserted.

# •Make sure the SD card is unlocked before inserting the SD card into the camera

The camera will power off if a locked SD card is inserted.

# •If you experience any problems with an inserted SD card

Try reformatting the SD card using the option in the camera's main settings.

## 2.3 SIM Card Information

# •Insert the SIM card into the camera before turning on the camera

The camera SIM slot is designed for a standard size SIM card. If you have a nano or micro size SIM card, using a SIM card adapter (which is included with most of our cameras) will be required to connect your camera to the cellular network.

Note: The camera will still function without a SIM card. The SIM card is needed only for the wireless/cellular capabilities.

## 2.4 Camera Modes

The different modes are accessed by sliding the power switch to the different positions marked on the camera:

#### •OFF Mode

Turns the camera 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.

#### •TEST/SETUP Mode

Customize the camera settings, or play back pictures and videos the camera has taken on the LCD display.

#### •ON Mode [ Hunting Mode ]

The camera will take pictures or videos when motion is detected and/or at specific time intervals, according to the programmed settings. After switching the camera to the ON position, 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 before the camera becomes active, if needed.

# 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 controlled by three different menu options (PIR Trigger/Sensitivity, PIR Interval, and Time Lapse).

**PIR Trigger/Sensitivity:** Controls how responsive the camera is to motion. 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 if motion is detected. 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 Time 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 videos when motion is detected and at the preset time, regardless of if motion is detected at that time.

#### Additional PIR settings to note:

#### **PIR Interval**

This setting indicates how long the PIR sensor will be disabled after it is triggered. During this time interval, 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 section 3.2 of the manual.

# 2.6 Manual Image / Video Capturing

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

# 2.7 Manage Images and/or Videos

Place the camera in TEST/SETUP Mode and press **OK** on the remote to view images or videos. The latest image or video will be shown on the LCD screen.

#### To view a different image/video:

Press  $\blacktriangle$  or  $\blacktriangledown$  to view the previous or next image or video. Press **OK** to play videos.

#### To delete:

Press **OK** on the remote in Test/Setup Mode to access the pictures and videos. Press the **MENU** key to enter into Playback mode. Press the  $\blacktriangle$  or  $\checkmark$  keys to find the Delete option. Press **OK** when the Del One option is selected. Press **OK** again to confirm you want to delete the picture or video.

# 2.8 Sending Images

Images can be sent directly to your wireless device or email, based on the Send Mode settings. Email and wireless device information need to be set up in the Menu options while the camera is in TEST/SETUP Mode. Images can only be sent when the wireless signal strength is adequate and a correctly setup SIM card is recognized and installed.

Send Mode settings will dictate how often you want pictures sent to you. The options "Daily Report" and "Instant" will only be active when the camera is in the ON mode. You can find more detailed information on the Send Mode options in section 3.6.

# **2.9 Laser Pointer**

The laser light pointer beam can be activated to assist in the camera's positioning by pressing \* on the remote control.

#### NOTE:

Do not point the laser at other people. There is a risk of physical harm if it is shined into the eyes.

# <u>3 Camera Setup Settings and Display</u>

The remote control is required for the initial setup and for changing any camera settings. When powering on the camera, please allow 10-20 seconds for the camera to recognize the remote. An icon on the LCD screen will appear once the camera has recognized the remote. The maximum detectable range for the remote is 30 feet. The remote will not work properly if the antenna is not attached to the camera.

# 3.1 Settings Interface & Display

To update the camera settings, slide the power switch to the TEST/SETUP position.



When the camera is in TEST/SETUP Mode, the screen will activate and display the following:



# **3.2 Mobile Communication**

The camera can receive and respond to commands sent via SMS, MMS, GRPS, and the Apple or Android application, as long as the camera is correctly connected to a wireless carrier.

Supported wireless carrier bands: GSM (MHz): 850, 900, 1800, 1900 WCDMA (MHz): 850, 900, 1900, 2100

To enable the SMS functionality using the mobile application, complete the following steps.

- Place the camera in Test/Setup Mode and go into the menu Setup options
- Set SMS control to ON

For MMS and GPRS functionality, the following menu Setup options will need to be set:

- MMS set
- GPRS set
- Send to Phone

The settings for these options vary between service providers. You will need to contact your SIM service provider for specifics on these settings.

## 3.3 Camera Setup Software

For easier camera setup, download the camera setup application (BMC\_config.zip), along with the instructions from our website (bolymedia.com)

Select the camera you are going to use through the drop down window.



TY BEC CONFIG : For EG882K-8 HD		
Boly Media Communications Co., Ltd	. (BMC)	
WAP / Internet Setting	Camera Setting	
Select Country Select Operato	T Click "Default Setting" button if you don't	
Australia China-Mobile	know how to modify camera parameters !	
Austria China-Unicom		
Canada China-Unicom-30	Bafault Satting (D)	
Chech Others	Step1 Step2	
China 🔽		
Check WAP / Internet Parameters (L)	Change Setting (C)	
Customer	Information Statting	
Customer		
AdminNumber (13800000000	Receive Email 1 bolytest@bolyguard.com	
Phone Number 2 :	Receive Email 2 :	
Phone Number 3 :	Receive Email 3 : Step3	
Phone Number 4 :	Receive Email 4 :	
Attention Please , The Data Above Will Be Saved In The Following File:		
E:\GSM\MG882K.TXT		
SAVE (Y) EXIT (N)		

First, select your country and carriers (step1) according to your SIM card and input your receiving phone number in "administrator number" and receiving e-mail address in "Receive Email 1" (step3). For first time use, we suggest you to use default settings (step2). If there are any settings that you want to change, please click " Change Setting"

Please save the txt file in the root directory of the GSM folder of the SD card after all the settings are set (step4); the file will automatically disappear once the camera is turned on.

# **3.4 Mobile Applications**

When the camera is switched to the ON mode, you can change some of the basic camera settings

through the mobile application. The mobile application is currently supported by Android and Apple devices. Charges or fees may be incurred through your cellular provider when sending text messages to the camera.

For **Android devices**, you can download the application directly from our website: (<u>http://www.bolymedia.com/in</u> <u>dex/Support)</u>



For **Apple devices**, search for the BGTools app in the official Apple Apps store.

#### **3.5 SMS Command List**

Note: Only the Admin phone number is able to send SMS commands to the camera - The Admin number is the first phone number you enter in the software setup outlined in 3.3 of the manual

No	Function	SMS Command
1	Set MMS	#m# <u>http://mmsc.cingular.com#66.2</u>
	Parameters	<u>09.11.32#8080#wap.cingular#</u>
		account#password#
		(The example parameters are for if
		your carrier is AT&T)
2	Set GPRS	<u>#s#bmctest123@163.com#bmc12</u>
	Parameters	3#25#cmnet#smtp.163.com#acco
		<u>unt#password#</u>
		(The example parameters are for if
		your email host is 163)
3	Set Normal	#n#13800138001#13800138002
	User's	#13800138003#
	Phone	
4	Set Receive	<pre>#r#bmc1@sina.com#bmc2@sina.</pre>
	Email	com#bmc3@bmc3@sina.com#
	Address	
5	Get On	#t# (Send MMS to phone)
	Spot Photo	#t#e# (Send picture to Email by
		GPRS)
6	Check	#L#
	Camera	
	Settings	
7	Edit Work	#e#cp#s5#fh#b1#v60#t#l10m#p
	Parameters	n#i5s#Hon08:30-20:30
		(cp: camera mode, s5:photo size,
		fh: video size, b1:photo burst,
		V60: video length, t: set clock,
		l10m: time lapse, pn: pir trigger,
		i5s: PIR interval, mp: send to,

		Hon: work hour)
8	Format SD	#F#
	Card	
9	Help	#H#

Note: all SMS commands are only available for the admin number; each camera has only one admin number.

# **3.6 Camera Setup Options**

To view the camera settings menu, press **MENU** in **TEST** mode. With the remote, use the " $\blacktriangle$ " or " $\blacktriangledown$ " key to select the sub-menu, use the " $\blacktriangleleft$ " or " $\triangleright$ " key to select the different options. Press "OK" to save the settings.

After changing EACH setting in TEST menu you must press "OK", otherwise the camera will stay at the default setting.

Setting	Description
Items	
Language	Choose language you need. It
	supports four languages: English,
	Finnish, German, Swedish.
	Default: English
Camera Mode	Choose capturing Photo, Video or
	Pic+Video.
	Default: Photo
Set Clock	Set the camera's date and time. You
	should set this parameter when

	necessary, e.g., after every battery		
	change. The date format is		
	<b>month/day/year</b> ; the time format is		
	<b>hour: minute: second</b> . Valid values		
	for the year are between 2009 and		
	2050.		
	Choose the image size, e.g. 18 mega		
Dhoto Siza	pixels, 12 mega pixels or 5 mega		
Photo Size	pixels.		
	Default: 18MP		
	Choose the number of continuous		
Photo	photos taken when the camera is		
Burst	triggered.		
Default: 1			
	Choose the video size: 1920x1080,		
Video Size	1280x720 or 640x480.		
	Default: 1920x1080		
	Choose the duration of video		
	recordings. This parameter is only		
	active and adjustable when the device		
	is on and in video mode. Valid values		
Video	<b>deo</b> are between 5 and 60 seconds with a		
Length	step of one second. The default value		
0	is 10 seconds. Press <b>LEFT</b> or <b>RIGHT</b>		
	to decrease or increase the value by 1		
	second.		
	Default: 10 sec		
	Time lapse means the camera will		
Timecapture images or videos at a pLapsetime interval regardless of who			
		-	motion is detected. The default

	parameter is Off, which means the
	timer function is disabled. Changing
	this parameter to a non-zero value
	turns on the Time Lapse mode, and
	the camera will take photos at the
	given time interval.
	Please note that if PIR Trigger is
	set to Off, then Time Lapse can't
	be set to Off.
	Default: off
	Choose the sensitivity of the PIR
	sensor.
	This parameter defines the sensitivity
	of the PIR. There are four sensitivity
	parameters: High, Normal, Low and
	Off. The default value is "Normal". A
	higher sensitivity means the camera is
	more responsive to motion. It is
	recommended to use high sensitivity
DID	in rooms or environments with little
	interference, and to use lower
Trigger	sensitivities for outdoor
	environments or environments with
	lots of interference like hot wind,
	smoke, being near a window, etc.
	Furthermore, the sensitivity of the
	PIR is dependent on the temperature.
	Higher temperature leads to lower
	sensitivity. Therefore it is suggested
	to set a higher sensitivity for a high
	temperature environment.

	Please note that if the Time	
	Lapse is set to Off, then the PIR Trigger can't be set to Off.	
	Default: Normal	
	This parameter indicates how long	
	the PIR (Passive Infrared motion	
	sensor) will be disabled after being	
	triggered in the ON mode. During this	
	time the device will not react to	
	motion. The minimum interval is o	
PIR Interval	seconds, which means the PIR is	
	always working. The maximum	
	interval is 1 hour, which means the	
	PIR will be disabled for 1 hour after	
	being triggered. Press LEFT or	
	<b>RIGHT</b> to decrease or increase the	
	value.	
	Default: 5Sec	
	Choose the time period when the	
	camera is working each day. The	
	camera will be active during the	
Monly	specified time period each day.	
WORK	During the rest of the time, the	
mour	camera will sleep. Setting the Work	
	Hour to off means the camera works	
	all day.	
	Default: off	
	The camera sends MMS messages	
MMS Set	through a GPRS network, so before	
	using this function, you need to open	
	a GPRS service from your service	

	provider. You should set the right
	MMS parameters for the settings:
	URL, APN, IP and Port. Please
	contact your network service provider
	if you are not familiar with these
	settings.
	The camera sends images through a
	GPRS network with the SMTP
	protocol to an Email address. This
	way, the communication cost will be
	much cheaper in many countries. You
GPRS Set	should set the right GPRS parameters
	for the settings: Email <b>server port</b> ,
	<b>APN</b> and so on. Please contact your
	network service provider if you are
	not familiar with these settings.
	There are 3 send modes: "Manual"
	works in TEST mode, whereas "Daily
	report" and "Instant" work in ON
	mode.
	1)"Manual":
	Choose "Manual" in Test mode.
C a ra d	Please ensure a SIM card is inserted
Sena	properly. Please note, only photos can
Mode	be sent in this mode, video
	information can't be sent.
	2)"Daily Report":
	Daily Report works only in the ON
	mode, which means that the camera
	will summarize at the preset time (if
	the preset time is, e.g. 20:00PM) how

many pictures it had taken each day. So, you will get a summarized text message with the last picture taken before 20:00PM.

If it is in Photo mode, the camera will send a MMS at the preset time. The MMS will show you the latest photo and the total quantity of the pictures taken. If it is in Video mode, the camera will send a SMS at the preset time. The SMS will show you how many video clips the camera has taken within 24 hours.

#### 3) "**Instant"**:

Instant only works in ON mode. In instant mode, the camera will send a MMS immediately after it captures a photo. You can choose how many pictures you want it to send out each day.

For example, if it is in Photo mode and you chose the Instant MMS mode, and set the MAX number to 10, the camera will send 10 MMS within 24 hours. After sending the 10 messages, it will continue to capture photos and save them on the SD card. After 24 hours, the camera will begin sending MMS again when it captures photos. If it is in Video mode, the Camera will send SMS messages

	instead of MMS.		
	4) " <b>OFF</b> ": Disables the communication function.		
	Default: Manual		
	Choose whether to send the image to		
	your Phone or to to your Email.		
	Phone[MMS]: Send the image to		
	your cell phone via WAP.		
	Email[MMS]: Send the image to		
Send To	your Email address via WAP.		
	Email[GPRS]: Send the image to		
	your Email address via SMTP. This		
	way, the communication costs will be		
	much cheaper in many countries.		
	Default: Phone[MMS]		
	SMS Control can enable the two		
	way communication function. If you		
	turn SMS Control ON, the camera		
	can receive and respond to your SMS		
SMS	commands. You can also retrieve live		
Control	pictures at any time. However, the		
	power consumption will be a little		
	more than in the normal hunting		
	mode.		
	Default: Off		
	Labels the camera position. You can		
Desition	set an A-Z position for your camera,		
POSITION	so that you can distinguish which		
	photo is taken by which camera.		
	Default: Off		
Version	This parameter shows information		

	about the Firmware and IMEI of this	
	camera.	
Format SD	Deletes all images and videos in the	
	SD card. Make sure you have made a	
	backup of important data before	
	selecting this option.	
Default	Restore all camera settings to the	
Settings	default values.	

# <u>4 Troubleshooting</u>

1 There is something in front of the camera lens. Is the camera broken?



A: The camera is not broken. What's in front of the lens is called an IR-cut filter. When the camera is powered on, the IR-cut will reset and cover the lens. The IR-cut will be at a random place only when the camera is powered off.

2 The camera display screen is not working anymore.

A: Most likely, no SD card was inserted in the camera when it was turned on. Please make sure a working SD card has been inserted in the camera before it is turned on.

3 Why can't my phone receive MMS?

A: The MMS/GPRS function needs the SIM cards in both your camera and phone to have enough balance and have access to a data plan.

# **<u>5 PIR Detection Zone</u>**

This camera has a new PIR design, which is patented. The new PIR's detection range can reach90ft in good environments. The following picture compares the detection zone between the normal PIR and the new PIR.



The PIR detection angle ( $\alpha$ ) is barely smaller than the field of view (FOV) angle ( $\beta$ ). This design helps reduce the empty picture rate and capture most, if not all, motions.



# **<u>6 Technical Specifications</u>**

Imaga Sancon	5MP Color CMOS,
image Sensor	12MP, 18MP Interpolation
Lang	F/NO=2.4
Lens	FOV(Field of View)=57°
PIR detection	90ft
range	
<b>Display Screen</b>	1.44" LCD
<b>Memory Card</b>	From 8 MB to 32 GB
Diatura	18MP =4864x3648
Picture	$12MP = 4032 \times 3024$
Kesolution	$5MP = 2560 \times 1920$
Video Resolution	1920x1080 ,1280x720,640×480
<b>PIR Sensitivity</b>	Adjustable (High/Normal/Low)
<b>Trigger Time</b>	1.28
Weight	0.30 kg (without battery)
<b>Operation/Storag</b>	$30 + 60^{\circ}$ C / $30 + 70^{\circ}$ C
e Tem.	-20 - +00 C / -30 - +/0 C
Dowor Supply	8×AA or 4×AA
rower Suppry	External DC 6V,2A
Low Battery Alert	LED Indicator
Sound Recording	Available
Mounting	Rope/Belt/Python lock
Dimensions	140 x87 x55 mm
Operation	
Humidity	5/0 - 90%
Security	ECC CE DAUS
Authentication	гсс, се, копо

# <u>7 Parts List</u>

Quantity
One

Download the camera setup software from here: <a href="http://www.bolymedia.com/index/Support">http://www.bolymedia.com/index/Support</a>

For Mobile applications:

- Android: Visit our website @ www.bolymedia.com
- Apple: Download the authorized application using the Apple Apps online store.



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