



CAMOUFLAGE

# Digital Wildlife Camera SM4-PRO



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## PREFACE

Thank you for purchasing the **SM4-PRO Camouflage Digital Wildlife Camera**. This product is a digital camera for wildlife recording and observation. To make our product easy to use and have a general understanding, we have created this guide specifically for you. This manual explains how to use this camera systematically. Read this manual carefully before use, so that you can master the method quickly and correctly.

The contents of this manual are for reference only and use the latest information available at the time of writing. The screen displays, illustrations, etc. used in this manual are intended to provide a more detailed and intuitive explanation of camera operations. Due to differences in technology development and production batches, these may differ slightly from the camera you actually use.

If you have any questions while using this product, please contact us. We will be happy to serve you.

## 1. GENERAL INFORMATION

### 1.1 Introduction

The Wildlife Camera (also called Scouting/Hunting Camera) is a reconnaissance device that can be activated by a sudden change in ambient temperature caused by any movement of human (or animal) in a particular Region Of Interest (ROI), which is detected by a highly sensitive passive infrared (PIR) sensor and then automatically records high-quality photos or HD video clips. The camera can reach more applications through the timer, interval, and other function settings.

#### Main Features:

- 1) 90-degree camera lens.
- 2) Optional 1/3/5/8/12/16 Mega-pixel high-quality resolution.
- 3) The trigger time reaches up to 0.6 seconds.
- 4) Build-in 2.36" TFT color screen to review photos and videos.
- 5) Support SD Card up to 32GB (64GB is possible).
- 6) Waterproof IP66.
- 7) Perform in the most extreme temperatures from -22°F to 158°F
- 8) 38pcs IR LEDs.
- 9) The date, time, temperature, and moon phase can be stamped in the picture.
- 10) In the "Camera + Video" Mode, the camera takes both pictures and video at every trigger event.
- 11) In the Time-lapse setting, the camera automatically and constantly takes pictures/videos at the specified interval. It's very useful when observing plants

flowering, birds building nests, or when monitoring unattended properties such as parking lots/yards. This feature can be used together with the Timer feature to meet your timetable

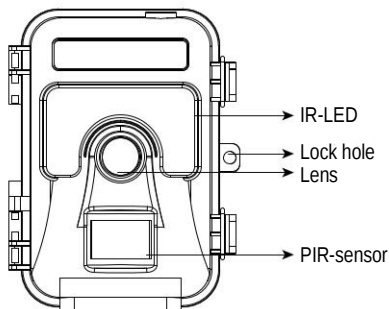
- 12) Auto power off in 10 minutes while no keypad controlling.
- 13) Extremely long in-field battery life (in standby mode, up to 6 months with 8\*AA batteries).
- 14) The serial Number function enables you to code locations in the photos. This helps multi-camera users identify the location when reviewing the photos.
- 15) Lockable and password protected.
- 16) Color pictures in the daytime, and monochrome pictures at night, switched automatically.

## **1.2 Application**

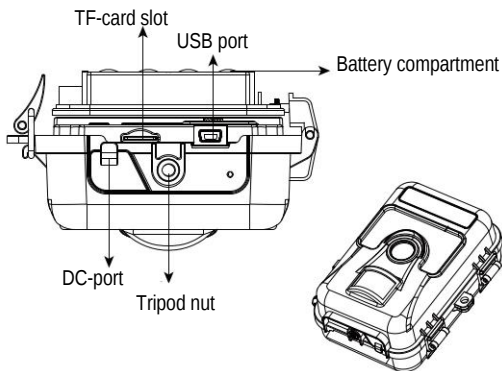
- For hunting, trail animals' trace or habit.
- For wildlife observation and research, captures pictures and videos of wild animals.
- As a sports camera, for riding, driving, camping, or exploring
- As a Motion-Triggered security camera, for home, office, and community.
- All other indoor and outdoor surveillance where invasion evidence is needed.

## **1.3 Illustration**

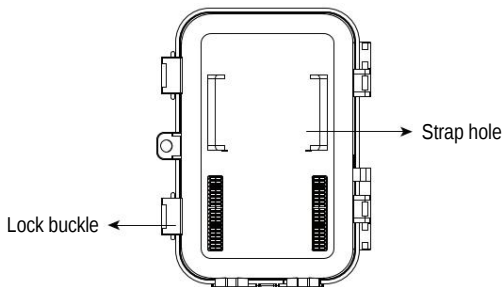
- Figure 1-1 shows the front view of the camera
- Figure 1-2 shows the bottom and the side view of the camera
- Figure 1-3 shows the back view of the camera
- Figure 1-4 shows the inside view of the camera



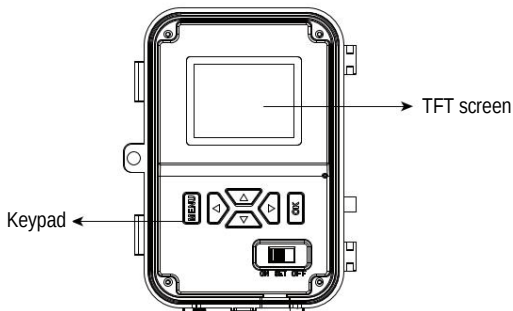
**Figure 1-1: Front View**



**Figure 1-2: Bottom and Side View**



**Figure 1-3: Back View**



**Figure 1-4: Inside View**

## Note:

- 1) The camera provides the following connections for external devices: USB port, SD card slot, and external DC power in jack. The 3-way Power/Mode Switch is used to select the main operation modes: **OFF**, **ON**, and **SET**.
- 2) LED lights Indicator: red light for PIR monitoring; green light for taking photos or videos.

## 2. QUICK START

### 2.1 Batteries

To supply power, it is recommended to use 4xAA or 8xAA high-performance alkaline batteries. Make sure the polarity matches the sign on the cover.

If you are not using the camera for an extended period, please remove batteries from the camera to avoid possible acid leaks that may damage the camera.

Alternatively, the camera can run on an external (6V/2A) DC power supply, solar power supply, etc.

On "SET" mode when the battery power level gets low, the message "Low Battery" will show on the TFT screen.

### 2.2 Insert TF card

The camera does not come with internal memory. So it will not work without a TF memory card. Check the TF card before inserting it into the card slot. The supported memory capacity is up to 32GB. If you use a card capable of above 32GB, make sure you test it before putting the camera in use.



## 2.3 Enter the "SET"-mode

Switch to the "SET" position to enter the Set mode. In this mode, you can take pictures or video clips like a regular digital camera or enter the Menu to set up parameters. On the keypad there are four "shortcut" functional keys (see Figure 2-1) working as below:

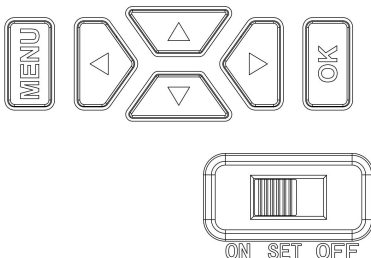


Figure 2-1: Keypad View

- Press the "**UP**" key to set the camera to shoot video clips.
- Press the "**DOWN**" key to set the camera to take pictures.
- Press the "**RIGHT**" key to manually trigger the shutter. A photo or video (depending on the camera setting) will be taken and saved to the SD card.
- Press the "**OK**" key to review/playback photos/videos on the LCD screen. Use the "**UP**" and "**DOWN**" keys to navigate.
- Press the "**MENU**" key to set up photos and videos when reviewing photos/ videos. You can **Delete one** / **Delete All** / **Slide Show** / **Protect** the photos and videos you want.

## 2.4 Enter Live Mode

Switch to the **ON** position to enter the live mode. The Motion Indicator will flash green for about 15 seconds and the camera starts working by itself without any manual handling. It will at once shoot pictures or record videos when animals or other objects enter the PIR area of the sensor. If the game roams away after entering the PIR area of the sensor, the camera will power off and enter standby mode.

Press the **“RIGHT”** key can enter live mode quickly when the switch is at the **“ON”** position.

### **Note:**

In general, you are recommended to place the camera 3 to 6 feet (1 to 2 meters) above the ground.

To avoid potential false triggers due to temperature and motion disturbances, please do not aim the camera at a heat source (i.e. the sun) or nearby tree branches and limbs. The ideal direction to aim at is North or South. Also, remove any limbs close to the front of the camera.

## 3. ADVANCED SETTINGS

The trail camera comes with preset manufacturer settings. You can change the settings to meet your requirements. Please make sure that the camera is in SET mode.

### 3.1 Parameter settings

Press the **“MENU”** key to enter/exit the menu. Press the **“UP/DOWN”** key to move the marker, Press the **“LEFT/RIGHT”** key to change the setting, and press the **“OK”** key to confirm the change. Always remember to press **“OK”** to save the change. Otherwise, you will lose your new setting.

Parameter	Settings ( <b>Bold</b> =default)	Description
Mode	<b>Camera</b> Video Camera+Video	Select whether still photos or video clips are taken. In <b>Cam+Video</b> mode, can first take photos and then shoot videos afterward.
Language	<b>Enter</b>	<b>English/Chinese/French/Norwegian/Deutsch/</b> Spanish/Portuguese/Japanese/Russian/Finnish/ Italian/Czech/Romanian/Svenska/Slovak
Photo Resolution	16MP 12MP 8MP <b>5MP</b> 3MP 1MP	Select the desired resolution for photos from 1 to 16 megapixels. Higher resolution produces better quality photos but creates larger files that take more of the TF card capacity. Besides, larger files require a longer time to write to the TF card, which will slightly slow the shutter speed.
Video Resolution	1920x1080 <b>1280x720</b> 720x480 640x480 320x240	Select video resolution (pixels per frame). Higher resolution produces better quality videos but creates larger files that take more of the TF card capacity.
Photo No.	<b>01 Photo.</b> 02 Photo. 03 Photo.	Select the number of photos taken in sequence per trigger in Camera mode. <b>Please also refer to the Interval parameter.</b>
Video Length	AVI 5s, optional from 3s to 30s	Videos are in AVI format that can be played back on most video players.

<b>Interval</b>	<b>1 min,</b> optional from 5s tot 60min	Select the shortest length of time that the camera will wait until it responds to any subsequent triggers from the PIR sensor after a game is first detected. During the selected interval, the camera will not take pictures/videos. This prevents the TF card from filling up with too many redundant images.
<b>Sense Level</b>	<b>Normal,</b> High, Low	Select the sensitivity of the PIR sensor. The High setting suits indoors and environments with little interference, while the Normal/Low suits outdoors and environments with more interference. Temperature also affects the sensitivity. The High setting is suitable when the ambient temperature is warm, and the Low setting is helpful in cold weather.
<b>Set Date/Time</b>	<b>Enter</b>	Press <b>Enter</b> to set up the date and time
<b>Date Stamp</b>	Off Date <b>Date/Time</b>	Select <b>Date/Time</b> if you want the date & time imprinted in every photo. Select <b>Date</b> if you want the date imprinted in every photo. Select <b>Off</b> to stop the date & time imprinted
<b>Timer</b>	On <b>Off</b>	Select <b>On</b> if you only want the camera to work within a specified period every day. For instance, if the starting time is set at 18:35 and the ending time at 8:25, the camera will function from 18:35 the current day to 8:25 the next day. Outside the period the camera will not be triggered or take photos/videos.

<b>Time Lapse</b>	<b>On Off</b>	If set <b>On</b> , the camera will automatically take photos/videos according to the set interval, regardless of whether the PIR sensor has detected any game. This is helpful when observing cold-blooded animals like snakes, or the process of flowering, etc.
<b>Password Set</b>	<b>On Off</b>	Set up a password to protect your camera from unauthorized users.
<b>Serial No.</b>	<b>On Off</b>	Select <b>On</b> to assign a serial number to each camera you have. You can use a combination of 4 digits to record the location in the photos (e.g. 1234 for Yellow Stone Park). This helps multi-camera users identify the location when reviewing the photos.
<b>Audio</b>	<b>On Off</b>	The default setting is On. When it is on, the camera can record voice, otherwise, the video will be silent.
<b>SD card Storage</b>	<b>Stop saving when full Cycle storage</b>	Select the loop mode to overwrite the previous file to continue working when the TF card is full.
<b>Format</b>	<b>Yes No</b>	All files will be deleted after formatting the TF card, Highly recommend you format the TF card if it has been used previously on other devices. Caution: make sure the wanted files on the TF card have been backed up first!
<b>Default Setting</b>	<b>Yes No</b>	Press OK Enter to return all your previous settings to the manufacturer defaults.
<b>Version</b>	<b>Enter</b>	Look through the version of the camera.

## 3.2 File format

The camera stores photos and videos in the folder \DCIM\100MEDIA in the TF card. Photos are saved with filenames like DSCF0001.JPG and videos like DSCF0001.AVI. In the ON mode, you can use the provided USB cable to download the files to a computer. Or you can put the TF card into a TF card reader, plug in a computer, and browse the files on the computer without downloading.

The AVI video files can be played back on most popular media players, such as Windows Media Player, Quick Time, etc.

## 4. WARRANTY

We take great pride in our products. We always stand behind our promises. We provide a leading warranty term and service. By buying our product, you are covered under a limited warranty.

We guarantee our products to be free of defects in materials and workmanship for a limited warranty of the original purchase date. This warranty does not cover consumer-caused damage such as misuse, abuse, improper handling or installation, or repairs attempted by someone other than our authorized technicians.

We will, at our option during the warranty period, repair your camera or replace it with the same or comparable model free of charge. This warranty only extends to the original retail buyer from our authorized dealer. Purchase is required to receive warranty benefits. The warranty on any replacement product provided under the original warranty shall be for the remaining portion of the warranty period applicable to the original product.

This warranty extends solely to failures due to defects in materials or workmanship under normal use. It does not cover the normal wear of the product.

If you need to return a product under this warranty, please contact your dealer or our distributor.

## 5. Appendix I: TECHNICAL SPECIFICATION

Model	Parameters
Image Sensor	3 Mega Pixels Color CMOS
Max. Pixel Size	4608 x 3456
Lens	F=1.8; FOV=90°; Auto IR-Cut
IR Flash	940 nm IR LED
LCD screen	2.36-inch TFT color screen
Keypad	6 Keys, 1 Switch
Memory	TF Card (8 MB~32 GB)
Picture Resolution	16MP; 12MP; 8MP; 5MP; 3MP; 1MP
Video Resolution	1920x1080: 30fps; 1280x720: 30fps; 720x 480: 30fps; 640x 480: 30fps; 320x 240: 30fps
PIR Sensing Sensitivity	High/Normal/Low
PIR Sensing Distance	65 ft./20 m (Below 77 °F/25 °C at the normal level)
PIR Sensing Angle	60°
Operation Mode	Day/Night

<b>Trigger Time</b>	0.6 Seconds (When using the 2GB TF card)
<b>Trigger Interval</b>	5 sec - 60 min
<b>Shooting Numbers</b>	1-3
<b>Video Length</b>	3-30 sec
<b>Camera + Video</b>	First, take Picture then Video
<b>Playback Zoom In</b>	1-8 times
<b>Time Stamp</b>	On/Off
<b>Time</b>	On/Off; Timer Set
<b>Password</b>	4-Digit Numbers
<b>Device Serial No.</b>	4-Digit Numbers
<b>Time Lapse</b>	1 Second-24 Hours
<b>Audio</b>	On/Off
<b>Language</b>	English/ Chinese/ French/ Norwegian/ Deutsch/ Spanish/ Portuguese/ Japanese/ Russian/ Finnish/ Italian/ Czech/ Romanian/ Svenska/Slovak
<b>Power Supply</b>	4XAA; Expandable to 8xAA
<b>Stand-by Current</b>	<0.1 mA



<b>Standby Time</b>	4-8 months (4xAA - 8xAA)
<b>Auto Power Off</b>	Auto power off in 10 minutes while no Keypad controlling
<b>Power Consumption</b>	150 mA (+800 mA when IR LED lights up); at 6 V DC
<b>Low Battery Alarm</b>	4.5 V
<b>Interface</b>	USB; TF Card slot; 6 V DC external
<b>Mounting</b>	Strap; Tripod Nail
<b>Waterproof</b>	IP66
<b>Operation Temperature</b>	-22~+158 °F/-30~+70 °C
<b>Operation Humidity</b>	5% ~ 95%
<b>Certificate</b>	FCC & CE & RoHS

## 6. Appendix II: PACKAGE CONTENTS

**Digital camera:** 1 piece

**USB cable:** 1 piece

**Camera belt:** 1 piece

**User manual:** 1 piece

## 7. Appendix III: FAQ

Question	Answer
<b>Forgot Password/ Factory Reset</b>	Press the “MENU” + “OK” key and hold, then turn it on, toggle the switch to SET position, and turn it off. The camera is restored to the factory defaults, all previous parameter settings made including any password will be cleared. Please use it with caution.
<b>Night video is unavailable in low voltage</b>	When the camera is turned on, there is a “Night video is unavailable in low voltage” prompt, indicating that the voltage has been low. When the battery voltage is less than 4.5V, the infrared light cannot be opened, and at night, the camera cannot take pictures and video. The infrared LED power consumption is very large. Under normal circumstances, it is recommended to set the recording time to be shorter, or when necessary, during the day, the camera does not need to turn on the infrared light, still can record the video properly.

