



OPERATIONAL MANUAL



**VIGILANT IS ROBOCAM'S AUTHORISED DISTRIBUTOR FOR
SPAIN AND PORTUGAL**

To ensure your complete understanding and to obtain the best possible performance from the unit, please read the instruction manual carefully before operation. Be sure to keep it in a handy place for future reference.

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PREFACE

Thanks for purchasing the Robocam 'R1'. Before connecting to, or operating please read this manual completely.

Brief introduction

1. Precautions

- a. Do not open the device's cover.
- b. Protect the device from direct sunlight.
- c. Prevent impact with hard objects and surfaces.
- d. Please ensure the device is protected by the water resistant rubber cover when used in extreme environments where dust or water prevails.
- e. Ensure batteries hold sufficient power before use.
- f. Do not disconnect the USB cable whilst formatting or during upload/download. This may result in file corruption.

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2. Device features.

Capacity: 16 GB* 'black box' protected flash memory with extendable SD card slot.

Display: 3.6" LCD 720x480 pixels, 262 000 colors and TV output

Video recording: MPEG-46 SP and stereo sound, optimized resolution for TV up to 640x480 @ 30 f/s, in AVI format.

Video playback: MPEG-46 SP with B-Frames with stereo sound. Near DVD quality up to 720x480 @ 30 f/s (NTSC), 720x576 @ 25 f/s (PAL), AVI file format. WMV9 (including protected files) up to 352x288 @ 30 f/s, and 800 KBit/s4.

Speaker: Built-in speaker.

Interfaces: USB 2.0 high-speed device, compatible USB 1.1, PC & Mac.

Battery life: Recording is up to 5 hours; Play back is up to 10 hours.

Power source: Internal: 2600mAH removable Lithium-Ion Battery.

External: USB charger

3. Device accessories

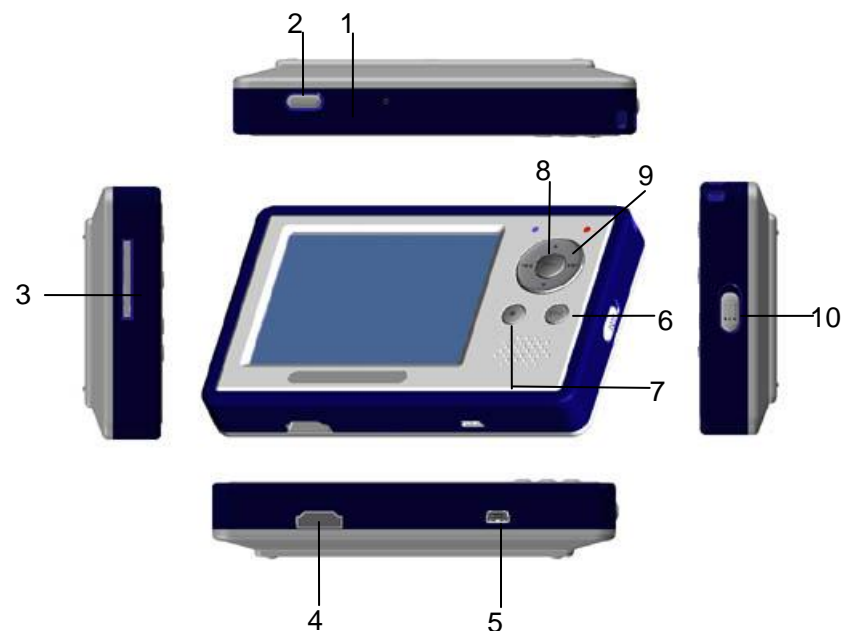
- 1). R1 Portable Video Recorder
- 2). USB mains charger
- 3). Earphones
- 4). AV cable
- 5). USB cable
- 6). Water resistant cover
- 7). PVR Pouch

4. Computer requirements

- a. 100MHZ+ processor
- b. Windows 98/2000/ME/XP operating system.
- c. USB jack

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5. Key functions



- 1). Reset
- 2). Power ON/OFF (Press and hold for 3 seconds to turn on/off)
- 3). SD socket
- 4). Controller cable slot
- 5). USB/charging socket
- 6). ESC (Exit)
- 7). MENU (**At menu screen, Press and hold for 3 secs to unlock buttons**)
- 8). OK (Play/Pause/Enter)

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9). Cursor Control:

UP/DOWN (Volume +/-)

LEFT/RIGHT (Fast forward/Fast backward; option selection)

10). Battery release latch

Application introduction

1. Precautions before operation

Battery power

Full Half Low Empty

Note: The buzzer will sound, when the battery power is low, please ensure batteries are charged immediately.

2. Charging

- During charging, the indicator light is red; when power is full the red light turns off. A full charge will take between 4-5 hours.
- For the first 3 charges, you are recommended to charge the battery for 12 hours, this will ensure full capacity of the batteries are utilized...
- The battery can be charged using the USB lead through the USB port of a host computer; however the charging time will be greater than using the mains power.

3. Basic operation

- Power on/off

Press and hold the power "on/off" key for 3 seconds to power on.

Press and hold for 3 seconds again to turn the device off.

- Indicator light

Blue→ Operations indicator

Red→ Charging indicator

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Main menu operation

Boot up Sequence...



Main menu interface



If the controller is connected before power on, the device will directly enter into camera mode.

Note: If the camera is not correctly connected with the controller, the device will display "no signal", and the buzzer will sound.

In main menu, press and hold UP key for 1 second, it shows AV OUT menu; Press and hold DOWN key for 2 second, it will exit AV OUT mode.

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Functions of the R1

File Browser

In main menu, select File Brower function by using the left or right keys on the cursor and 'OK' to select. At the password prompt, input the correct password using the cursor keys. Press 'ESC' to cancel or 'OK' to confirm.

Browse Password:
0 0 0 0 0 1
Apply Cancel

The following system folders will be available:

HOME folder – Files stored on the SD Card.

ROBOCAM folder – Stores all camera recordings.

Video files from the camera are stored in sub-folders within the ROBOCAM folder.

Each of these sub-folders is generated for each instance of a recording.

Each video recording and sub folder is named using the following naming conventions:

A 2 hour video recording commencing at 13:05:30 on the 30/12/2007 will generate a sub-folder named '130530_30122007' (hhmmss_ddmmyyyy) and the file generated would be named '012345_130530_30122007_01.avi'.

(serial number_ hhmmss_ddmmyyyy_segment number)

Note: a. In File Browser, press MENU button to manage all the folders and files.

b. UP/DOWN on the cursor to adjust speaker volume during play back.

File Management Password:
0 0 0 0 0 0
Apply Cancel

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Functions of the R1

Input correct file management password to administer files...



Delete - ALL/Current/Cancel

Copy to – Internal Memory/SD Card/External USB

Please note as a safety feature a sub-folder can only be deleted if there are no files remaining within it. This will ensure video files are not accidentally deleted.

Settings

Browse Password:
0 0 0 0 0 0
Apply Cancel

Input correct Settings password to gain access.



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Functions of the R1

Time & Date



Use the cursor UP/DOWN keys to set the correct date and time.

Password Protection



Use the cursor UP/DOWN keys to set new password/Browse file/Setting/USB connection/File management settings.

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Functions of the R1

Recording



Time & Date Stamp – Picture Watermark ON/OFF

Recording Format – NTSC/PAL/Secam

Video Segment Sizes – Video file segment (5/10/30/60 mins)

Please note larger continuous recordings will be broken into segment sizes set here.

Quality – Video quality (High/Medium/Low)

Video Output



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Functions of the R1

Video Output

To view video files on a TV, connect the device via (earphone jack on controller) to a TV using the AV lead enclosed.

Then choose PAL or NTSC.

Note: Ensure to return the setting to LCD before disconnecting the TV, this will ensure the picture returns to the R1's LCD screen.

Shortcut: This menu can be accessed from the Main Menu by pressing and holding the up arrow on the R1's cursor for 3 seconds.

AV cable: Yellow – Video line, Red/White – Left/Right audio lines

Sound



Use the cursor UP/DOWN keys to adjust speaker volume.

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Functions of the R1

System



LCD off – Power save, LCD automatic shut off time (only for camera mode).

Storage – Select preferred default storage location.

Firmware Update – Update new firmware by SD card.

Memory Information – Capacity of internal memory and available storage.

Factory Settings – reset to original settings.

Format – format the internal flash memory.

Version – Check the version and serial number.

Transferring files using USB

To transfer files via USB, connect the R1 to the host computer using the USB lead provided. The R1 will prompt you for a password. If correctly inserted the R1 folder directory will be accessible using the host computers operating system.

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Controller functions



1、 REC

In camera mode, Press and hold REC button for 1 second to commence recording.

2、 STOP

In camera mode, Press and hold STOP button for 1 second to stop recording.

3、 AUX

This buttons functionality is only available with certain versions of firmware.

4、 ON/OFF

Press and hold ON/OFF for 3 seconds to turn the R1 ON, press and hold for 3 seconds to turn the R1 OFF.

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SPECIFICATION

Dimension	13*8.3*2.5 cm
Weight	0.25 kg
Screen	3.6" TFT LCD
USB	USB2.0
Built-in removable battery	5hr continuance recording 10hr continuous playback
Memory	16G with SD Card Slot
Video format	AVI
Video resolution	640*480@ 30fps
Frame frequency	30fps-NTSC; 25fps-PAL
TV output	1.0V PP
Temperature	-10-50C
Menu language	English

