

IMPULSE SPORT



Model: SHDV-5004

Please read this manual carefully before operating camera.
Keep these instructions in a safe place for future reference.

User Manual

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Precautions

Before using the Impulse Sport Camera, please make sure that you read and understand the safety precautions described below to ensure the camera is operates correctly.

- Do not point the camera directly into the sun or other intense light sources that could damage your eyesight.
- Do not try to open the case of the camera or attempt to modify the camera in any way. Maintenance and repairs should be done only by authorized service providers.
- Keep the camera and its accessories out of reach of children and pets to prevent accidents or damage to the camera.
- If you notice smoke or a strange odor coming from the camera, turn the power off immediately. Take the camera to the nearest authorized service center for repair. Do not attempt to repair the camera yourself.
- Use only the recommended power accessories. Use of power sources not expressly recommended for this camera may lead to overheating, distortion, fire, electrical shock or other hazards.

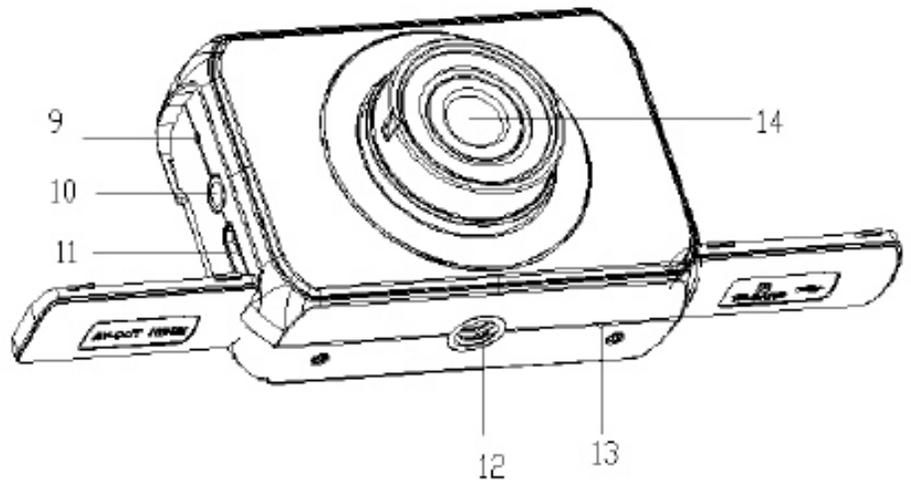
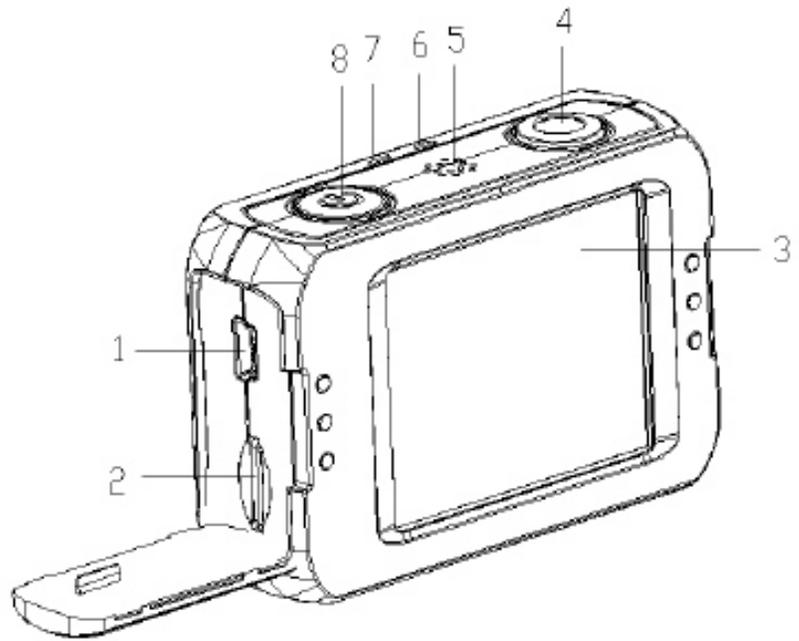
Disclaimer

We assume no responsibility for damages suffered by the user or third parties as a result of inappropriate handling of the product or its accessories. We reserve the right to make changes to this product and its accessories without prior notice. The photos included in this manual are only for reference.

Preparing for Use

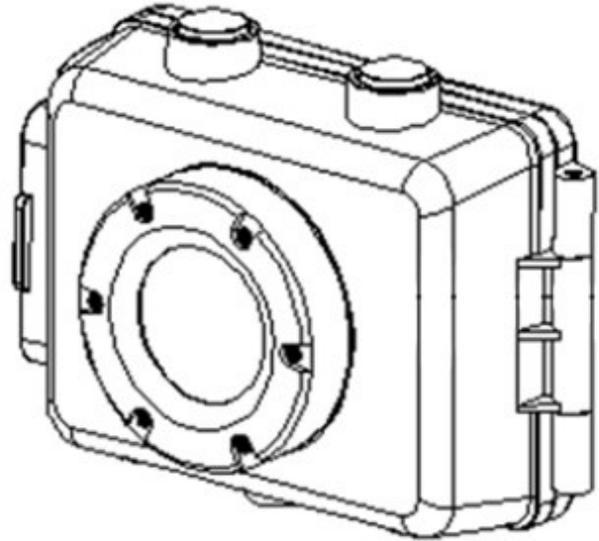
Parts of the Camera

1. USB Port
2. Memory Card Slot
3. LCD Screen
4. Shutter Button
5. Speaker
6. Charging Indicator Light
7. Busy Indicator Light
8. Power Button
9. Reset Button
10. AV Out Jack
11. HDMI Port
12. Tripod Slot
13. Microphone
14. Lens



Water Resistant TPU Case

The Impulse Sport Camera includes a water resistant TPU case. Enclose the camera with this case to keep the camera dry when taking photos or videos in water related activities.



Battery Indicator

The camera has an internal lithium battery. **It is important to charge the battery for at least 1 hour before first time use.**

- Make sure camera is turned OFF.
- Connect USB cable from the camera to the computer in order to charge the battery.
- When charging, the power indicator light will turn red.
- Unplug the USB cable when camera is fully charged.

NOTE: The camera may feel warmer after extended use; this is normal.

Inserting Memory Card

This camera does not have an internal memory. A SD/MMC memory card must be used for this camera to operate. Without a memory card photos or videos will not be saved.

- 1) Make sure camera is turned OFF.
- 2) Open the rubber cover at the side of the camera. Insert memory card in the provided memory card slot.
- 3) A sound notification will trigger if the memory is installed correctly.

Installing Camera Mounts

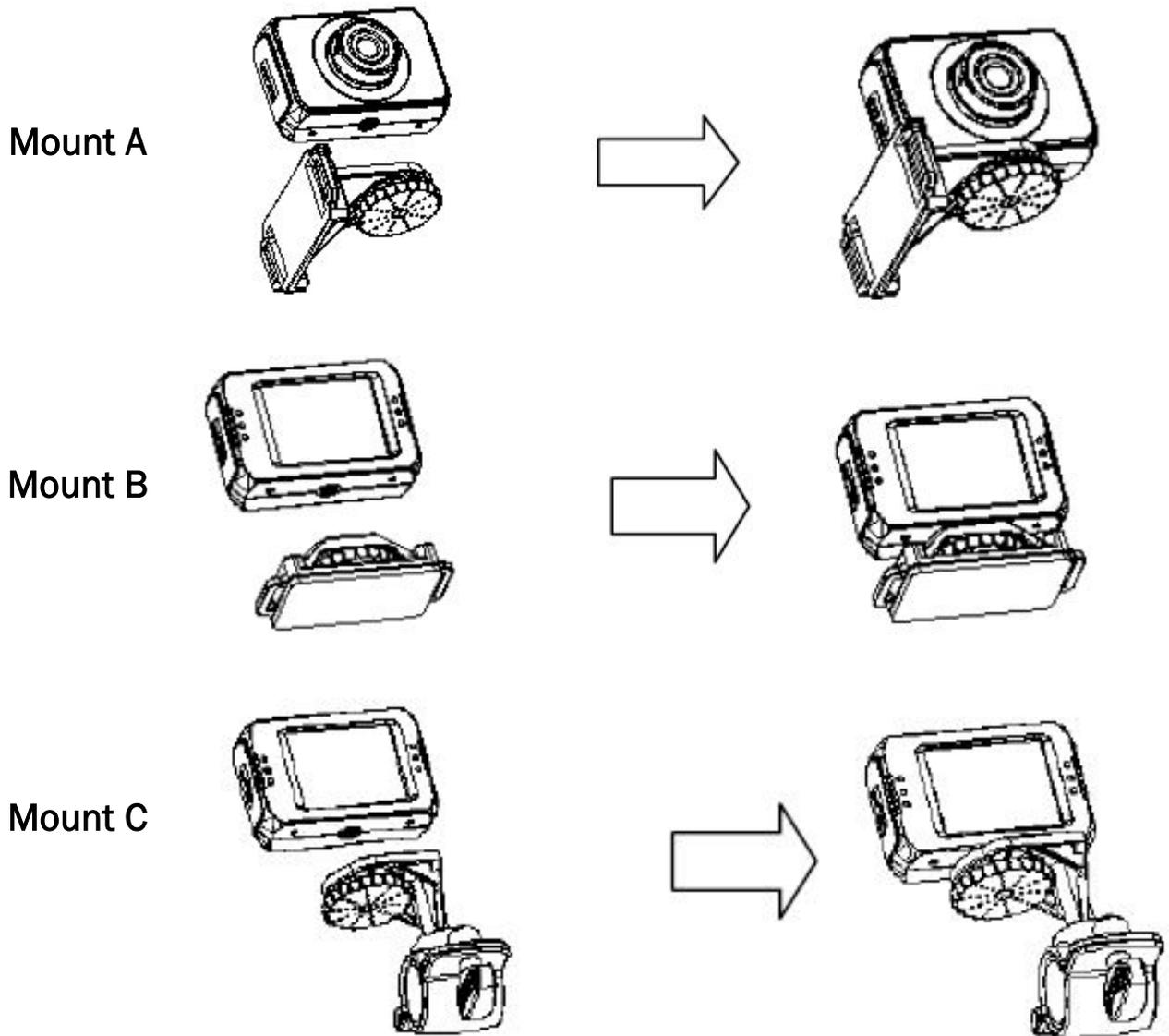
The Impulse Sport Camera includes a bike mount and two different helmet mounts.

Mount A is for side helmet mounting.

Mount B is for top helmet mounting.

Mount C is for bike mounting.

Align the screw on the mount with the tripod hole on the bottom of the camera, twist camera in place until it is securely tightened to the mount.



Attaching Bike Mount to Bicycle:

- 1) Have mount fixed to camera as explained in previous page.
- 2) Open the clamp part of the mount and insert the rubber pad for cushioning.
- 3) Set the mount onto the handlebar of the bike. Fix the screw so that it is secured onto the handlebar.

Double check to make sure bike mount is properly secured on the handlebar to avoid it from slipping during use.

Attaching Top Helmet Mount to the Helmet

- 1) Have mount fixed to camera as explained in previous page.
- 2) Insert the provided strap between the grooves of the mount and helmet. Adjust the length to fit the helmet.

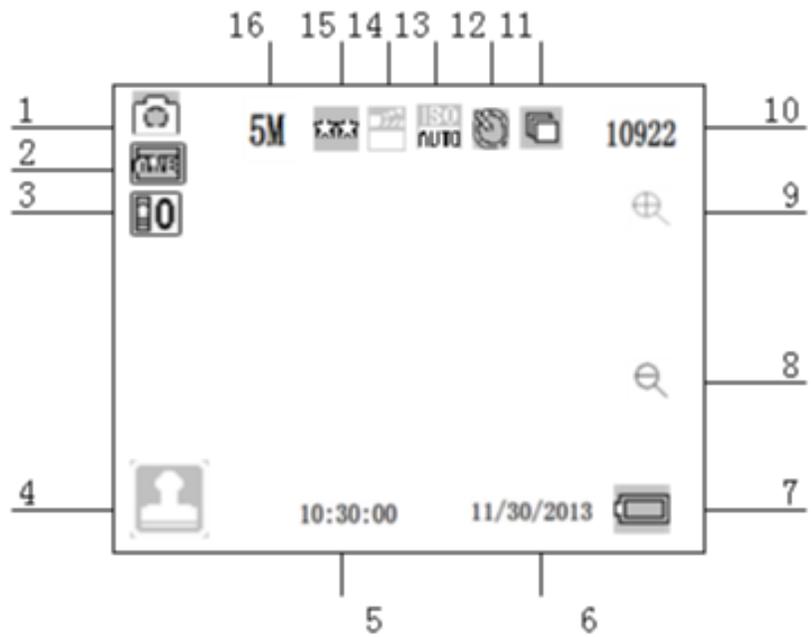
Attaching the Side Helmet Mount to the Helmet.

- 1) Have mount fixed to camera as explained in previous page.
- 2) Place the sticky side of the mount onto the side of the helmet.

NOTE: For additional protection to the camera, you may enclose the camera into the water resistant case and still be able to fix it onto the helmet or handlebar mounts.

Capture Mode Screen

- 1) Capture Setting
- 2) White Balance
- 3) Exposure
- 4) Start
- 5) Time
- 6) Date
- 7) Battery Level
- 8) Zoom Out
- 9) Zoom In
- 10) Memory Capacity
- 11) Continue Shot
- 12) **Self Timer:** 10s, 5s, 2s, Single
- 13) **ISO:** Auto, 100, 200, 400
- 14) **Scene:** Portrait, Night Scenery, Night Portrait, High Sensitivity, Beach, Auto, Scenery.
- 15) **Quality:** Normal, Fine, Super Fine
- 16) **Resolution:** 12M, 10M, 9M, 8M, 7M, 5M, 3M, 2M, 1.3M



Playback Mode Screen

- 1) Playback Setting
- 2) Video Mode
- 3) Capture Mode
- 4) Menu
- 5) Start
- 6) Battery Level
- 7) Zoom In
- 8) Zoom Out
- 9) Sequence of Current File/Total Number of Recorder Files
- 10) Resolution



Setting up the Camera

Please read the following instructions before you begin taking photos or video recordings.

- 1) Turn the camera **On**.
- 2) Touch the  icon to display the **MENU** on the screen. Then press the  icon to bring up the Setup menu.
- 3) Press the  on the left to exit and return to the last menu.

Menu	Function
Date	This function can be used to add the date to your photos and video as you take them. (ON) / (OFF): Show the time and date (Set the date): Set the date and time for the camera
Auto Power Off	To save power, the video camera is turned off automatically after a period of time. If you select “Off” the power save function will be disabled. Options: 1 min / 3 min / 6 min / Off
Beep Sound	Sets the operation sound: (On / Off)
Language	Sets the on-screen language. Options: English, French, Spanish, Portuguese, German, Dutch, Italian
Frequency	Light frequency should be set depending on your region Options: 50 Hz or 60 Hz

Setting up the Camera

Menu	Function
TV Mode	<p>You can review the photos on a television with the supplied AV cable. TV Out should be set to either NTSC or PAL depending on your region.</p> <p>NTSC: America, Japan, and others</p> <p>PAL: Europe, Oceania, and others</p>
Format	<p>Format your SD card, removing the SD card during formatting may damage the card.</p> <p>Options: Ok or Cancel</p>
Default Setting	<p>Restores the camera to its default settings:</p> <p>Options: Ok or Cancel</p>

Recording Movie Clips

- 1) Turn on the camera and press the  to set the camera to video mode.
- 2) Press the shutter button to begin recording.
- 3) Use the LCD screen to view your subject. Touch the magnifying glass icon to zoom in or out.
- 4) The LCD screen will display how much it has recorded.
- 5) Press the shutter button again to stop recording.

The camera will stop recording automatically when the memory card is full.

Video Mode Menu

Menu	Function
Size	Changing the video resolution for the recording. Select smaller resolution for longer recording time. There are four options to choose from: 1080P / 720P / VGA / QVGA
Exposure	Set the exposure value manually to fix unusual lighting conditions: -2, -1.6, -1.3, -1, -0.6, -0.3, 0, +0.3, +0.6, +1, +1.3, +1.6, +2
White Balance	Adjust the white balance to suit different light sources. There are five options: Auto, Daylight, Cloudy, Fluorescent, Incandescent
Color	Set the color effect to a color tone to the video: Standard / Sepia / Monochrome / Vivid
Loop Recording	Set the loop recording time: Off / 1 min / 3 min / 5 min
Motion Detection	Set the camera to exit the video recording mode automatically when the camera is motionless, but if it moves, it will resume recording. Options: On or Off

Menu	Function
Record Audio	Record voice when recording movie clips. Options: On or Off
Date Stamp	This function can be used to add a date to your photos as you take them. Options: On or Off

Taking Still Images

- 1) Turn on the camera and press the  to set the camera to capture more.
 - 2) Press the shutter button to take a photo.
 - 3) Press the magnifying glass icon to zoom in or out on the subject.
 - 4) After the photo is taken, the LCD display will show the image for a brief moment.
- The memory capacity on the top right of the screen will decrease as each image is taken.

Capture Mode Menu

Menu	Function
Capture Mode	Using this function to set the camera to different capture options: Single / 2s timer / 5s timer / 10s timer
Resolution	Allows you to change the image resolution for taking still images: 12M / 10M / 9M / 8M / 7M / 5M / 3M / 2M / 1.3M
Sharpness	You can set the level of sharpness in the images taken with your camera. The sharpness level dictates if the edges of the objects in the images are more or less distinct. Options: Sharp / Normal / Soft
Exposure	Set the exposure value
White Balance	Adjust the white balance to suit different light sources.
Color	Add a color ton to the photo.
ISO	The ISO menu allows you to set the level of sensitivity that your camera has to light in the surrounding environment. Options: Auto / 100 / 200 / 400

Menu	Function
Scene Mode	<p>You can select the scene mode according to the photo taken.</p> <p>Options: Auto / Scene / Portrait / Night Scene / Night Portrait / High Sensitivity / Beach</p>
Anti-Shake	<p>Use the function to reduce blur caused by a shaky camera.</p> <p>Options: On / Off</p>
Consecutive Shots	<p>Use this function to take 6 photos consecutively.</p> <p>Options: On or Off</p>

Playback and Delete

- 1) Turn on the camera and press the  to set the camera to playback mode.
- 2) Swipe your finger right or left to view the photos and video files.
- 3) Press the shutter button or press the  icon to start playing the video file.
- 4) Press the shutter button or the same icon in the previous step to pause the video.
- 5) You may press the  icon to stop playing the video file.

When viewing the photos, you can touch the magnifying glass icons to zoom in or out of the photos. When zooming in the image, you can swipe your finger across the screen to see the details of the images. You cannot use the menu when zoomed in until you go back to the original size.

Menu	Function
Delete	Use this function to delete a single file or all files. Options: Delete Current Image / Delete All Images / Cancel
Rotate	Use this function to rotate images. Options: 90°, 180°, 270°, Cancel
Protect	Use this function to protect the files from being deleted by accident. Options: Lock Current / Unlock Current / Lock All / Unlock All
Picture Bridge	Use this function to print a picture without a computer. Make sure you have a printer that supports picture bridge function and then connect it to the camera via USB cable. Options: Print / Cancel

Making Connections

Connecting Camera to the TV

1. Plug-in the provided cable to the TV-OUT outlet on the TV to the camera's AV out jack.
2. The LCD screen will turn black.
3. Find the correct mode on your TV to view the images from the camera on the TV.
4. When the camera is set to record mode, you can preview the subjects you want to record on the TV screen.
5. When the camera is set to playback mode, you can review all the photos and videos stored in the camera on the TV.

Connecting Camera to a HDTV

- 1) Connect the camera to the HDTV using an HDMI cable (not included)
- 2) Turn on the TV and switch to the HDMI mode.
- 3) Turn on the camera and set it to playback mode.

Connecting Camera to PC

There are two ways to download files from the camera.

- 1) Insert the memory card into a card reader.
- 2) Connect camera via supplied USB cable.

Using a Card Reader

- 1) Eject the memory card from the camera and insert it in the card reader connected to the PC.
- 2) Open My Computer, and double-click the removable disk icon that represents the memory card.
- 3) Copy images from the card into a directory of your choice on the computer's hard disk.

Connecting the Camera to a PC with the USB Cable

- 1) Connect the supplied USB cable to the computer's USB port and turn on the camera.
- 2) When connected to the computer, a Mass Storage window will appear on the screen.
- 3) Navigate to My Computer, followed by Removable Disk. View the files stored in the camera in the folder titled DCIM.
- 4) Copy the photos or files to your computer.

How to use the PC Camera Function

In order to have the camera work as a webcam, you must first install the necessary software explained below.

1. After installing the camera drivers, connect the camera to the PC via USB cable.
2. Press and hold the shutter button for a few seconds, then press the power button.
3. An icon titled **PC CAM** will appear on the computer screen. If this does not happen, refer to the previous step.
4. Open **My Computer**, there will be a file named **USB Video Tool**. Double click the  icon
5. The camera will now be able to work as a webcam.

Software Installation

The camera includes a CD that contains the necessary drivers and software for the camera.

- 1) Insert CD into your CD-ROM drive of your computer.
- 2) Double-click the **Start**, which will open the installation **MENU** as seen below:



The following software is included:

- Install Driver: Camera Drivers for the PC
- Install MAGIX Video Easy SE: Video Editing Software
- Install MAGIX Photo Manager 10: Software for Photo Management

Installing the Driver:

- 1) Click Install Driver.
- 2) Follow the on-screen instructions for installing the driver.

Notes:

- When using MAGIX Video Easy SE or MAGIX Photo Manager 10, make sure you register the product first for complete access of the programs.
- Make sure you have **QuickTime Player** installed on your computer.
- MAGIX Video Easy SE and MAGIX Photo Manager 10 are only compatible with Windows XP, Windows Vista, and Windows 7 operating systems.

Specifications

Sensor	5 MegaPixel CMOS
LCD Display	2.0" TFT Touch Screen
Lens	F/3.2. f=7.5mm
Shutter	Electronic Shutter: 1/2 ~ 1/800 sec
Angle of Lens	120°
Resolution	Still Image: 12M / 10M / 9M / 8M / 7M / 5M / 3M / 2M / 1.3M Video: 1080P / 720P / VGA / QVGA
White Balance	Auto / Daylight / Cloudy / Incandescent / Fluorescent
Exposure	-2.0 ~ +2.0EV
Continual Shot	6 Frames per shot
ISO	ISO Auto / 100 / 200 / 400
Sharpness	Sharp / Normal / Soft
Storage	External Memory: SC/MMC (Up to 32GB)
HDMI OUT	HDMI
Power	Li-ion Battery (2*350mAh)
Ambient Temperature	Operating: 0° to 104°F Storage: -4° to 140°F
Microphone	Built-in
Speaker	Built-in
Dimension	71.8x6x31(mm)
Weight	About 75 g