



NAVIG[8]R

SPORTS CAM 1080X

NAVSPORT1080X

USER GUIDE



2.0" LCD SCREEN



BUILT-IN
RECHARGEABLE
BATTERY



FULL HIGH
DEFINITION



WATERPROOF CASE



REMOTE CONTROL



** Includes themed stickers only. Extra cameras not included.*



IMPORTANT SAFETY INSTRUCTIONS AND PRECAUTIONS

- Read all instructions carefully before use
- Retain this product manual for future reference.
- Use this product only in the manner described.
- Only use a water-dampened soft-cloth to clean the surface of the camera including the lens.
Remove particulate such as dirt or grease before you do so otherwise you may risk scratching the case. The camera is not waterproof when it is outside its waterproof case
- Be aware of environmental conditions such extreme heat and cold, humidity, dusty, salty or sandy environments. In extremely cold weather and after prolonged usage, condensation may form inside the case which may cause the lens to fog up. We would recommend to stop using the camera and let the condensation evaporate (i.e.: don't try to wipe it off)
- For first time use, it is recommended to charge overnight to ensure a full battery charge. Subsequent charges can be as required. During charging, or extended use, the product may become warm.
- There are no user serviceable parts in this product.
- Un-authorized attempts to dismantle or repair this product will void your product warranty
- Do not point the camera directly at the sun as this may damage the video sensor
- Do not wipe the lens surface with your fingers. Instead use an appropriate lens cleaning cloth or lens cleaning solution.

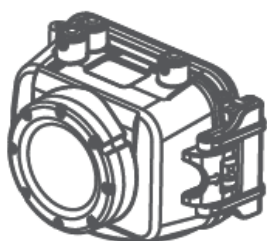


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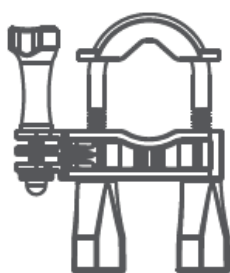


ACCESSORIES IN THE BOX

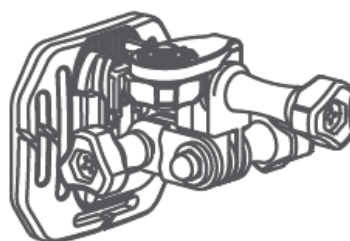
1x Waterproof Housing, 1x Remote Control, 1x Handle Bar Mount, 1x Suction Cup Mount, 1x Helmet Mount, 1 x Helmet Strap, 1 x Tripod, 4 x themed adhesive stickers, 1x In-Car 12V Charger, 1x User manual (The below images are for reference only)



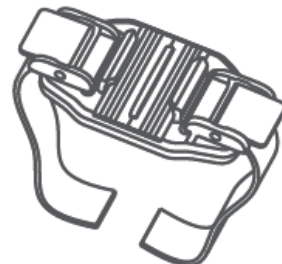
WATERPROOF CASE



BIKE ACCESSORY



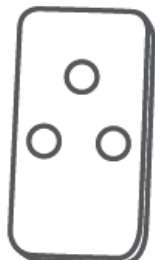
HELMET MOUNT



HELMET STRAP



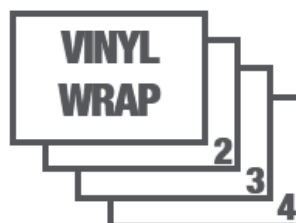
CAR CHARGER



REMOTE CONTROL



TRIPOD



VINYL WRAPS



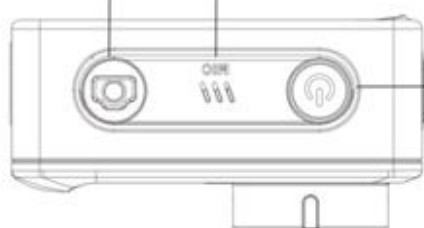
SUCTION CUP



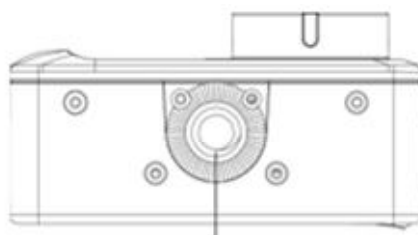
MAIN PRODUCT CONNECTION AND BUTTONS:

Button	Function
Power / Mode	Press and hold to turn Camera ON or OFF; toggle between Camera, Video and Playback modes. *From the main MENU screen use to toggle to the CAMERA SETTINGS menu
Shutter / OK	Capture Camera image or being Video recording; Play/Stop video playback in playback mode; Menu confirmation
MENU	Open and Exit from Menu; Stop Video playback in playback mode
UP (Button)	Digital zoom-in: Highlight a Menu item from the Menu screen; Scroll up through saved files; Pause Video Playback; Rewind Video Playback.
Down (Button)	Digital zoom-out: Highlight a Menu item from the Menu screen; Scroll down through saved files; Fast forward Video Playback.
Charger indicator	Red during charging and OFF when charged.
Busy indicator	Flashing GREEN when busy eg. During recording.
Infrared light (receiver)	Direct line of sight required to the RECEIVER when remote is in use.

Shutter/OK Microphone



Power/Mode

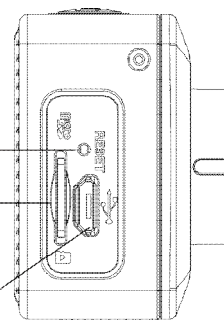


Mounting Point

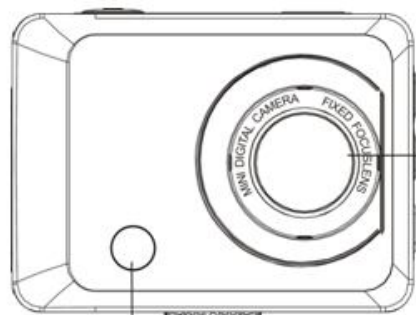
Reset

Micro SD

Micro USB



Lens

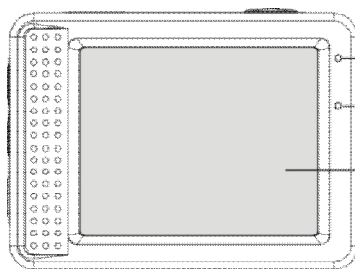


Infrared light

Charger indicator

Busy indicator

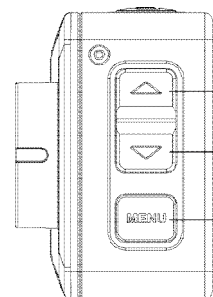
LCD display



UP

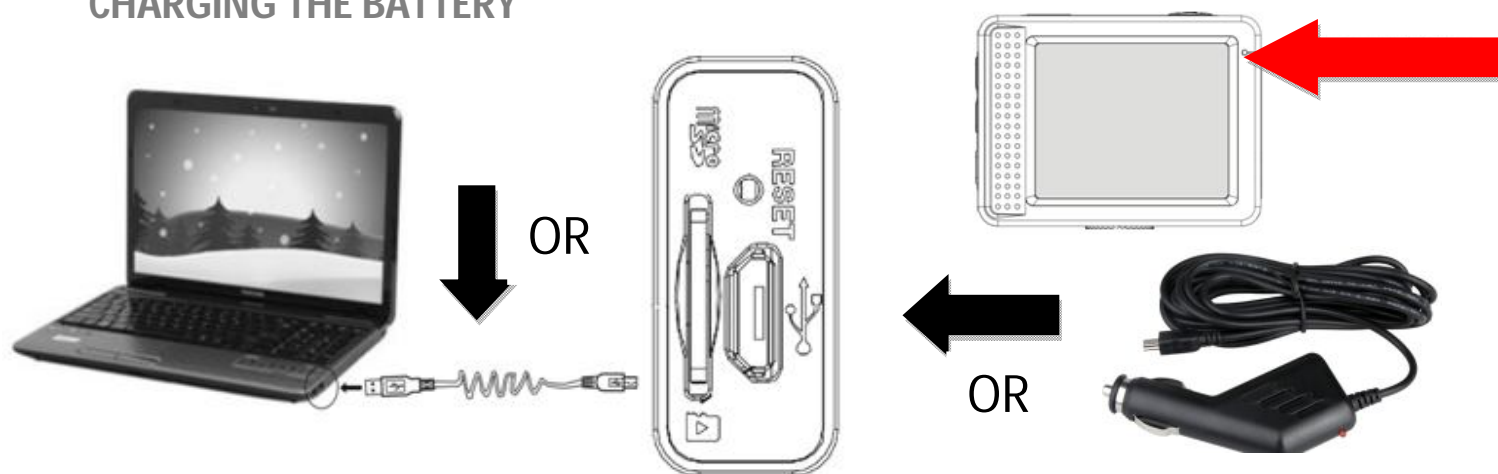
Down

MENU





CHARGING THE BATTERY



Turn the camera OFF and connect the USB cable to the camera and to your power source (i.e. in-car charger, PC USB port or USB Mains Power Adaptor) The charging indicator light will turn RED. When the battery charge is full, the RED light will turn OFF. A typical full charge can take up to 4 hours.

WATERPROOF CASE



** Images for illustrational purposes only. Product and case may differ from that supplied.*

1. Use your fingertip to gently pull the release clamp OUT and BACK, in the direction of the arrow (on the clamp)
2. Inspect the rubber water seal gasket to ensure it is in good condition, and then insert the camera in the correct orientation.

Note 1: You can test the gasket by closing the case without the camera inside and submersing it completely in a bowl of water for a few minutes. Remove the case from the water, dry off the exterior with a towel, and then open the case carefully. If the interior is dry, the camera and case will be safe for use under water.

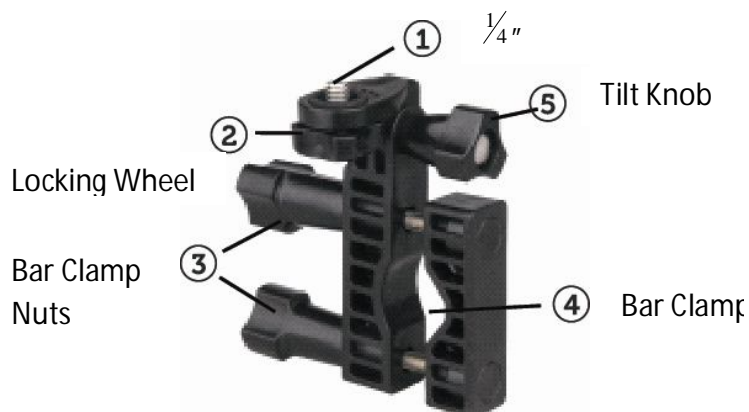
Note 2: Only two buttons are required for recording video and images: the Shutter Button, & the On/Off button.

Note 3: Remember, when the unit is turned OFF and ON again, the unit will default to VIDEO mode and the default resolution.

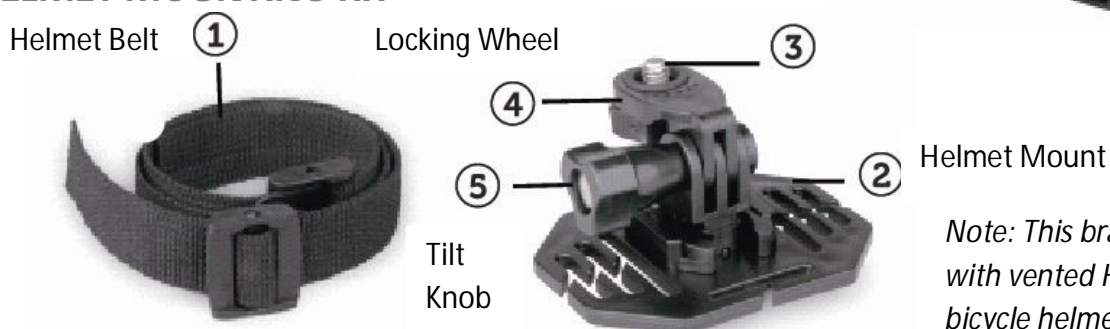


HANDLEBAR / SEAT POST MOUNT

1. Connect the bar clamp to your handlebar (4).
2. Connect your camera to the $\frac{1}{4}$ " screw (1) securely.
3. Loosen the tilt knob (5) and adjust.
4. After positioning tighten all clamp nuts.



HELMET MOUNTING KIT

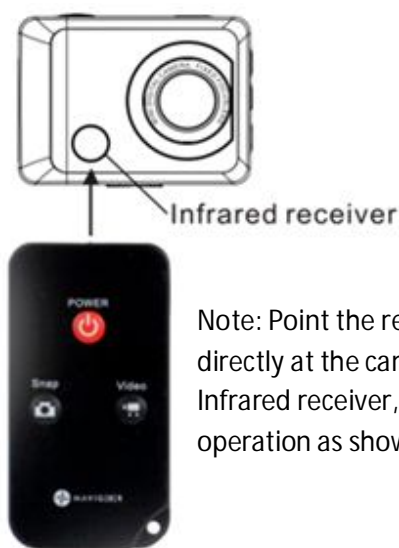
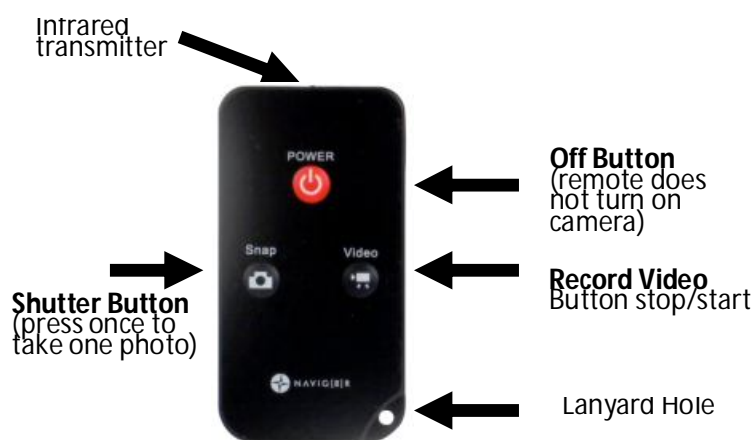


Note: This bracket will only work with vented Helmets such as bicycle helmets.

Use the supplied strap to loop through the holes in your helmet and then through the long slots on the helmet mount. Tighten as required. Then observe the steps in the previous section regarding adjustment.

Search YOUTUBE for **Navig8r Sportscam - How to prepare your helmet mount** to view our instructional video or click this link if you are viewing this file online <https://www.youtube.com/watch?v=EglbwFummrY>

REMOTE CONTROL

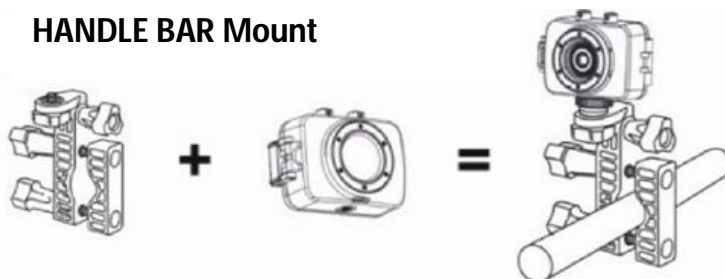


Note: Point the remote directly at the camera's Infrared receiver, during operation as shown above



MOUNTING EXAMPLES

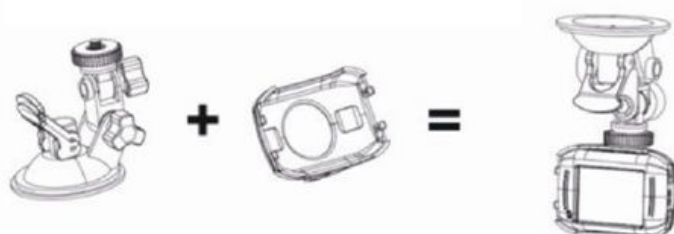
HANDLE BAR Mount



HELMET Mount



SUCTION CUP Mount



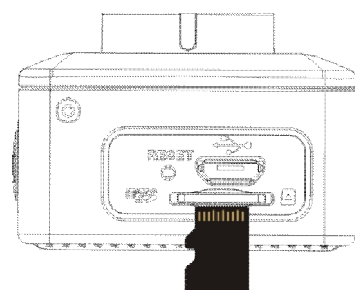
** Images for illustrational purposes only. Product and case may differ from those supplied.*

INSERTING THE MICRO SD CARD

Carefully push the memory card into the card slot, as shown in the diagram below (using your fingernail). The Micro SD card will "click into place". To take the memory card out, gently press the end of the memory card inward using your fingernail until a click is heard. An internal spring will then release the card.

Note: This camera has no built-in memory. A memory card is needed for operation.

Note 2: High Definition and High Frame Rate video capture devices, place huge demands on memory cards. Pending your user settings, it is recommended that a CLASS 10 SD Card be used to avoid Read/Write complications, which will appear as an error message on the screen during use. If you are not sure, please test any lower class cards (Read/Write speed) in the device before use.

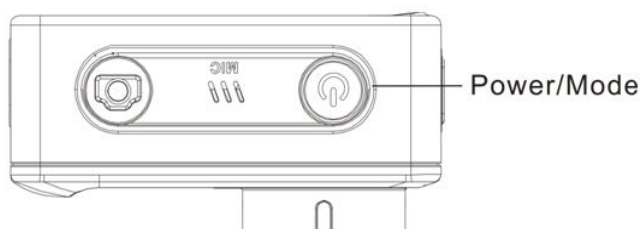




START-UP/SHUTDOWN

1. **START-UP:** Press and hold the power button until the WELCOME screen is displayed.

Note: The remote control cannot turn on the camera. You must use the power button on the camera



2. **SHUTDOWN:** Press and hold the power button until the GOODBYE screen is displayed.

Note 1: The camera will automatically shut down after 3 minutes of inactive use to conserve power.

Note 2: If there is not enough power the low power battery icon will flash. When power has been exhausted the camera will shutdown.

Note 3: The camera can also be turned off with the remote control.

SWITCH BETWEEN FUNCTION MODES

Tap the POWER BUTTON to change between modes. A different icon will appear each time.

Video mode: Record video

(To start recording press the shutter button)

Picture mode: Digital Still Camera operation

(To take a single picture, press the shutter button)

Playback mode: Playback Digital Still Camera operation

(To playback a file, us the UP/DOWN buttons then press the SHUTTER button)





START RECORDING / TAKE PHOTO

When the camera is turned on, it will automatically enter VIDEO MODE. Either select another mode or start video recording by simply pressing the shutter button. To stop recording video, press the shutter button again. When the memory card is full or the battery is too low, the camera will also automatically stop recording.

VIDEO MODE SCREEN ICONS

1	Mode icon: Video mode selected
2	Video Enhancement: Superfine, Fine, Normal
3,4	Video size: 1080p/720p 60FPS/720p 30FPS
5	Recording time: Indicates the length of time recorded
6	Face Recognition: Focus enhancement
7	Digital Zoom: The level of Digital zoom magnification (eg. 4x times).
8	Battery icon: Battery life indicator

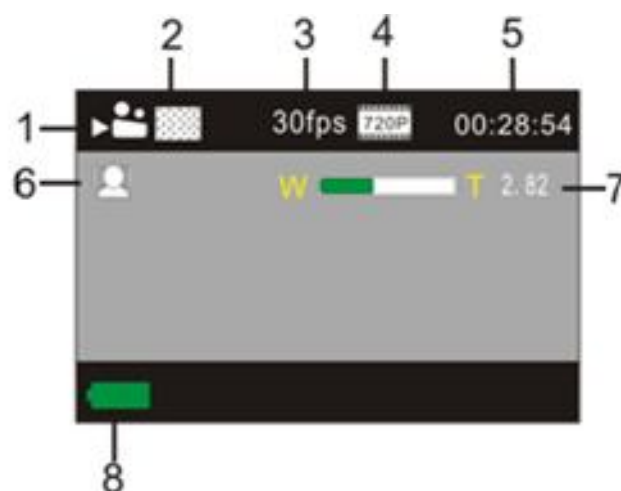
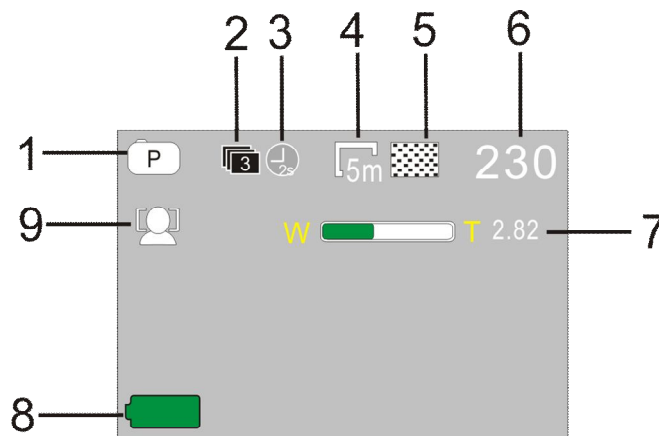


PHOTO MODE SCREEN ICONS

1	Mode icon: Camera mode selected
2	Burst Mode: 3, 5 or 10 image rapid capture
3	Driver Mode: Delayed capture 2 or 10 seconds
4	Resolution selected: 5M/8M/10M/12M.
5	Camera Enhancement: Superfine, Fine, Normal
6	Counter: Shows the number of remaining photos which can be taken.
7	Digital Zoom: The level of Digital zoom magnification (eg. 4x times).
8	Battery icon: Battery life indicator
9	Face Recognition: Focus enhancement



PLAYBACK MODE

After turning on the camera and enabling the playback mode, select what type of file to playback by using the Video and Photo icons. A file screen will then appear with a preview thumbnail image. Use the UP and DOWN arrows to select your file and press the shutter button to begin playback.

VIDEO PLAYBACK: OPTIONS

The options available on the playback screen are: PAUSE, STOP, PLAY, FAST FORWARD and REWIND.

Preview screen options



Playback screen options

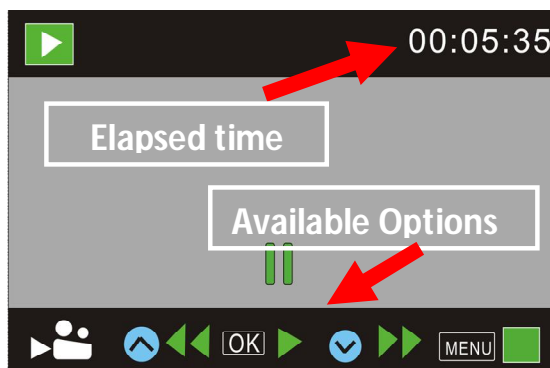
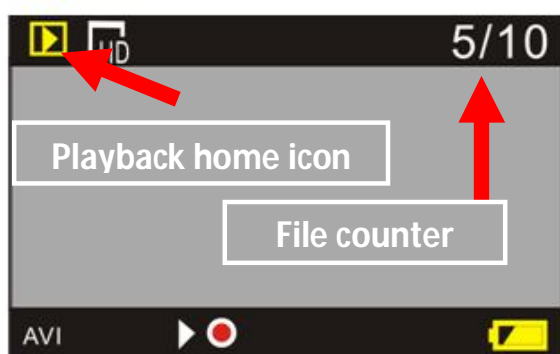


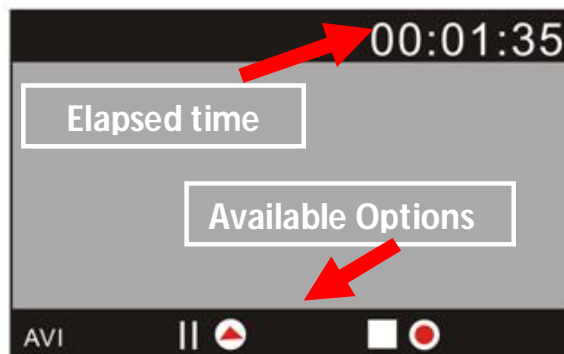
PHOTO DISPLAY: OPTIONS

The options available on this playback screen are: PREVIOUS IMAGE, NEXT IMAGE and DELETE FILE.

Preview screen options



Playback screen options





CONNECTING TO A COMPUTER

Files can be played back directly from the Camera to a Windows® Computer via a USB cable. The camera will appear as a common removable disk under Window Explorer. (Drivers are not required) Photos/Videos are saved in folder DCIM\100MEDIA.



MENU OPTIONS (GUIDE)

Video Options 		
Feature	Description	Options
Movie Size	Choose the pixel resolution and over file size of captured video	1080p (1920 x 1080), 720p (1280 x 720 30fps), 720p (1280 x 720 60fps)
Video Quality	Post-process captured images for added image clarity	Super Fine, Fine, Normal
Seamless	Record time segments of video (loop recording) *Note To remind you that this feature has been selected, the screen menu options rotate upside down. Remove the feature and exit out of the menu screen to correct the screen rotation)	OFF, 1Min, 3Min, 5Min
White Balance	Offset or correct lighting environments using preset level adjustments	Auto, Daylight, Cloudy, Fluor H, Tungsten
Metering	Select the field of view that the camera will recognise light differentials	Center, Multi, Spot
Effect	Create new and exciting lighting special effects and colour overlays	Normal, B&W, Sepia, Negative, Red, Green, Blue
Face Tracking	Make people faces priority with focus and automatic enhancement adjustments	ON, OFF

Camera Settings (The same for Video, Camera and Playback)  *IMPORTANT		
* Move to the SETTINGS TAB by pressing the POWER/MODE button immediately after pressing the MENU button		
Feature	Description	Options
Auto Review	Preview images after they have been taken	OFF, 1Sec, 3Sec, 5Sec
Power Frequency	N/A	50Hz, 60Hz
Video Format	Select the image compression output files types to suit your needs	MJPEG, H.264
Media Format	Select the image file output files types to suit your needs	AVI, MOV
Power Save	Automatically turn the camera off to conserve power	OFF, 1min, 3min, 5min
Date and time	Choose how the date and time is displayed.	YY/MM/DD; MM/DD/YY; YY/MM/DD (Date), HH/MM (Time)
Language	Change between different languages of displayed text on the camera display and menu items	English, French, Spanish
USB	Select to operate the camera as a MSD (Mass Storage Device) or UVC (Web Camera) H.264 or MJPG format.	MSDC, UVCH264, UVC MJPG
Format	Clear all files on the SD card to maximise space	Yes, No
Reset all	Restore all settings back to default – especially useful if you have changed to many settings	Yes, No



Camera Options



Feature	Description	Options
Resolution	Choose the pixel resolution and over file size of captured images	12M (400 x 3000), 8M (3264 x 2448), 5M (2592 x 1944), 3M (2048 x 1536)
Quality	Post-process captured images for added image clarity	Super Fine, Fine, Normal
Metering	Select the field of view that the camera will recognise light differentials from	Center, Multi, Spot
White Balance	Offset or correct lighting environments using preset level adjustments	Auto, Daylight, Cloudy, Fluor H, Tungsten
ISO	Adjust the speed of the shutter as needed	Auto, 50, 100, 200, 400
Exposure	Increase or decrease the amount of light through the aperture as needed	-2.0, -1.7, -1.3, -1.0, -0.7, 0, +0.3, +0.7, +1.0, +1.3, +1.7, +2.0
Drive Mode	Take a controlled delay picture – especially useful when taking self portraits	OFF, 2S (2 Seconds), 10S (10 Seconds)
Burst Mode	Take a sequence of images with one press of the shutter button.	OFF, 3, 5, 10
Sharpness	Define how the edges of images are to be produced	Hard, Normal, Soft
Effect	Create new and exciting lighting special effects and colour overlays	Normal, B&W, Sepia, Negative, Red, Green, Blue
Date Stamp	Overlay the current date on images so you know exactly when they were taken+	OFF, Date, Date and Time
Detection	Make people faces priority with focus and automatic enhancement adjustments	OFF, Face Tracking, Smile Detect
Digital Zoom	Enable the digital zoom function	OFF, ON

Playback options



Feature	Description	Options
Protect	Preserve files so they are not over written	Single, Protect All, Unprotect All
Delete	Delete a file that is no longer needed or to create more space on your SD card	Single, All
Slide Show	Display files back as a slide show	Start, Interval (1-10 Seconds), Transition (1-5 or mix), Repeat
Photo Effect	Create new and exciting lighting special effects and colour overlays	B&W, Sepia, Negative, Mosaic, Vivid Red, Vivid Green, Vivid Blu
Rotate	Rotate an image if the images is sideways for example	Rotate, Save, Back
Resize	Resize an image to a new mega pixel format	8M, 5M, 3M, 1M



PRODUCT REGISTRATION

Congratulations on purchasing your new LASER product. Registering your LASER product is quick and easy. Visit our web site www.laserco.net/productregistration

We can then stay in touch with you with information on product support, new product releases, and limited special offers.

FAQ

Windows media player can not play the recorded video files?	Try installing the CODEC pack supplied on the install CD, otherwise we find most customers have better luck with VLC Player.
In car recorder mode, I can not record to my SD card even though there is space on it.	The car recorder mode uses cyclical recording, which means it requires some buffer memory of 500MB. Please remove some files from your SD card or use an SD card with more space.
How many minutes of video can I record to my SD card?	In full 1080P mode, each minute will record up to 95MB of data. So a 4GB card will store up to 45 minutes and a 16GB card up to 170 minutes.
How long does a full charge take and how long will it last?	A full charge can take up to 4 hours and will record up to 90 minutes of video, depending on your settings and situation eg time of day and detail of image.
How many meters deep can I use the waterproof case in water?	The waterproof case can safely go down to 3 meters in depth.



TECHNICAL SPECIFICATIONS

Image sensor	5.0 mega-pixel CMOS image sensor	
Functions	Record Video	
	Take photos	
	Video Playback	
Camera lens	F2.5 f=3.53mm	
Zoom	8 X Digital	
Shutter	Electronic	
LCD display screen	2.0-inch	
Image resolution	12M (4000 x 3000), 8M (3264 x 2448), 5M (2592 x 1944)	
Video resolution (Higher resolution = better image quality) (Higher frame rate = smoother playback)	HD 1280x720 (60 frames/sec)	
	HD 1280x720 (30 frames/sec)	
	FHD 1920x1080 (30 frames/sec)	
White balance	Automatic	
Exposure	Automatic	
File formats	Image	JPEG
	Video	H.264
Storage medium	Micro SD card (Up to 32GB). There is no built in memory.	
USB interface	High-speed USB 2.0 interface	
Power Supply	Built-in 3.7V rechargeable lithium	
Dimension (length × width × height)	58 x 44 x 23mm	
Weight	72 grams	



Warranty against Defects

Laser Corporation Pty Ltd ("Laser") warrants your new product to be free from defects in materials and workmanship for 12 months, from the date of purchase, provided that the product is used in accordance with accompanying recommendations or instructions where provided. The benefit of this warranty is in addition to your rights under the Australian Consumer Law and to other rights and remedies of the consumer under a law in relation to the goods or services to which the warranty relates.

Through a network of retailers and resellers, Laser will provide you with your choice of a refund, repair or exchange (where possible) for this product if it becomes defective within the warranty period. This warranty will no longer apply where the defect is a result of alteration, accident, misuse, abuse, normal wear and tear, neglect or improper storage.

Please retain your receipt as proof of purchase.

How to make a product warranty claim:

Step 1: Find your receipt which proves the date of purchase. Where the date of purchase cannot be verified, your place of purchase or Laser will make an assessment based on the date of manufacture, the condition of the Laser product and the type of defect.

Step 2a): Contact your place of purchase. They will assess the nature of the fault and refund or replace the product as per their store refund or warranty policy.

Step 2b): If your place of purchase cannot be contacted, then you can contact Laser Customer Service with details of your defective Laser Product Phone (02) 9870 3355; or Email: service@laserco.com.au or online www.laserco.net/support/warranty (click on "Consumers (End Users)"). Our business address is at 1/6-8 Byfield Street, North Ryde, NSW 2113

Step 3: Laser will issue you with a Return Authorisation (RA) number within 48 hours. When requested, send us the defective product and a copy of your receipt. Laser will cover the cost of the return delivery.

Step 4: Wait for us to contact you. Once we have received your defective Laser product for inspection, we will inform you of our assessment of your claim within 7 days. When we contact you, we will firstly let you know whether you have a valid claim under this Warranty, and if so, we will inform you whether your defective Laser product will be replaced or repaired, together with the number of days you can expect to wait to receive your replaced or repaired Laser product.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.



NAVIG[8]R

PRECISION
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