



# Ultra small waterproof ACTION CAM ONE WITH DISPLAY



## FULL HD RECORDING & PLAYBACK WITH SOUND

Full HD video resolution 1080p quality (1920 x 1080p) at 30 frames per second wide FOV and 720P (1280x720) at 60 fps (perfect for slow motion) or 30 ps wide fov.



## 2.0" TFT DISPLAY WITH MENU (14 languages)

Comes with a built-in crystal-clear TFT display. Extremely easy to direct the cam to the perfect shooting angle. Also useful to browse and navigate through the menu -even when inside the waterproof housing- and access and adjust all settings: live video preview, recording and making photos, PIV (Picture In Video), slow motion, time lapse, zoom, 180° upside down recording and more ...



## 5 MP CAMERA + CMOS

Super bright and sharp images thanks to the 5 MEGA CMOS Pixel camera with HD A-PIX™ technology.



## 120° WIDE ANGLE LENS

120 degree wide angle multi-glass lens for a stunning wider crystal-clear view when taking pictures or shooting videos.



## DOUBLE-PROOF SMALL HOUSING

Waterproof till 40m depth  
Dust and dirt resistant



## MOUNTS FOR ALL YOUR GEAR

Securely mount the camera to your helmet, bicycle, surfboard, and many more.



## IR REMOTE CONTROL

Control your camera recording remotely thanks to the IR remote control with IP44 gradation, even during rainy days.



## DASHCAM CAR MODE

Use your camera also as a Dashcam with 180° upsidedown recording.



## MICRO SD CARD

Supports high capacity micro SD cards, Class 10 or higher max 32 GB UHS-I

with IR remote control

Excellent performance and packed full of fun to capture and share the adrenaline!



[www.guardo.be](http://www.guardo.be)

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# TECHNICAL SPECIFICATIONS

## GENERAL

Camera housing	Extra-durable solid housing
Dimensions (WxHxD)	58 x 44 x 23 mm
Weight	71g (with battery) – with waterproof housing: 175g
Temperature	-10° ~ +50°C
LCD Display	2.0" TFT Full Colour
Auto display power off	yes, after 30 sec. to save battery
Battery source	rechargeable 750mAh lithium-ion (built-in)
Charging time	2-4 hours
Standby time	1, 3 or 5 min. (powers off automatically to save battery)
Use time	max. 1 hour and 15 minutes (depends on settings).
Battery use/time visible	yes, visible on camera display
Internal memory	8MB SPI
External memory	Micro SD Card class 10 or higher recommended (upto 32 GB UHS-I supported)
Average recording times	Depends on settings/frame rate and type SD card
Mass storage function	yes, fast data transfer
Micro USB port	Yes, for data and charging at the same time
Microphone	Built-in microphone
Waterproof case	IPX8 certified up to 40 meter with flat housing
LED Indicators	Blue (recharge indication): Back Red (recording): Back
Screw Thread	Yes, 1/4"
Operating system	MacOS® X 10.5 and up, Microsoft Windows®, 2000, XP, Vista, 7, 8

## CAMERA

Image sensor	5 MP CMOS HD A-Pix™ Technology
Optics + Lens	F/2.5 f/3.53 – 4 element aspherical ultra sharp glass lens
Focus	Fixed wide angle 120 degrees fixed focus
Digital Image Stabilizer	Yes
Lens distortion correction	Yes
White Balance	Auto, daylight, cloudy, fluor H or tungsten
Exposure +	Auto
Ultra Low Light Performance	Auto, daylight, cloudy, fluor H or tungsten
Dashcam Mode	Yes, automatic detection by car charger

## VIDEO/IMAGE/AUDIO

Still image resolution	12 MP (4000 x 3000), wide FOV, 8 MP 3264 x 2448, wide FOV, 5 MP 2592 x 1944, wide FOV
Shutter control	Electronic. New : PIV (Picture In Video)
Time lapse interval	OFF, 3, 5, 10, 30 sec, 1 min.
Time lapse duration	OFF, 5, 10, 30 sec, 1 min, 1 hour and unlimited.
Slow Motion	ON/OFF
Quality	Super fine, fine & normal
Metering	Center, multi & spot
Effects	Black and white, sepia, negative, RGB
Self Timer	OFF, 2 sec or 10 sec
Burst Photo	OFF/3/1, 5/1, 10/1

Video resolution	1080p @ 30 fps, 11Mbps, wide FOV 720p @ 60fps, 10Mbps, wide FOV, 720p @ 30fps, 8.5Mbps, wide FOV.
Digital zoom	Upto 4x
Image EV	Yes, selectable
Image ISO	Auto, 50, 100, 200, 400
Image slideshow	Yes, selectable
Image editing	Yes, several options
Auto Review Image	Off, 1, 3 or 5 sec.
Date/Time Stamp	Yes, ON or OFF
Video file format	H.264 or Mjpg codec, .mov or .avi file format
Photo file format	jpg
Upside down recording	ON/OFF 180°
Seamless recording	OFF, 1 min, 3 min or 5 min
High Video Bitrate Capture	Upto 15/mbs (depends on settings)
Audio format	Mono, AAC compression with AGC
Frequency	50/60 Hz

<b>DISPLAY</b>	
Functions & more	Live video preview, recording, making photos, editing, zoom, 180° upside down recording, slow motion, time lapse and much more
OSD languages	English, Dutch, French, German, Italian, Spanish, Portuguese, Greek, Czech, Hungarian, Polish, Turkish, Russian and Swedish

## Additional information

EAN: 54.14633.06250.5  
Certifications:



## Package contents

- Mini action cam with waterproof case
- Remote control with strap
- Mounting accessories (see below)
- Micro USB cable
- Manual

## ALL PARTS INCLUDED

### CURVED SURFACE MOUNT

With adhesive 3M VHB sticker



### UNIVERSAL VENTED HELMET MOUNT WITH STRAP



### UNIVERSAL ADJUSTABLE STRAP



### FLAT SURFACE MOUNT

With adhesive 3M VHB sticker



### SURFBOARD MOUNT BASIC

With adhesive 3M 300LSE sticker



### SUCTION CUP MOUNT BASIC

BASIC



### IR REMOTE CONTROL



### WATERPROOF CASING



### ELASTIC STRAP

for arm/leg/wrist



### FLOATER

With adhesive 3M 300LSE sticker



### MICRO USB CABLE



### SEATPOST/HANDLEBAR/POLE MOUNT

MEDIUM



### UNIVERSAL HEAD STRAP MOUNT

