

8 ADVENTURE HD



Please read through this user manual before using the product and keep the manual for future reference. Product appearance and/or specifications are subject to change without notice. Before using this camera, please insert a micro SD card (class 10 card, no larger than 32GB) into the Adventure HD 5200 camera. Camera functions will not work without a micro SD card inserted into the camera. Please note the camera **does not include** a micro SD card inside the package, the micro SD card must be **purchased separately**.

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Preface

This product is an action-sports camera tailored to meet the demands of today's active lifestyles! This action camera is perfect for vehicle data recording, photography, outdoor sports, home security, and watersports. It allows you to film anytime, anywhere.

Manual Disclaimer

Every effort has been made to ensure that the contents of this manual are correct and up to date. However, no guarantee is made regarding the accuracy of the contents. The manufacturer reserves the right to change the manual contents and product specifications without notice.

Safety Precautions

- Do not store the product in dusty, dirty, or sandy areas, as its internal components may be damaged.
- Do not store the product in hot areas. High temperatures can shorten the life of electronic devices, damage batteries and warp or melt certain plastics.
- Do not store the product in cold areas. When the product warms up to its normal temperature, moisture can form inside, which may damage the electronic circuits.
- Do not attempt to open the casing or attempt your own repairs. High-voltage internal components create the risk of electric shock when exposed.
- Do not drop or knock the product. Rough handling may damage the internal components.
- Do not use harsh chemicals, cleaning solvents or strong detergents to clean the product. Wipe the product with a slightly damp soft cloth.
- Do not open the battery cover while an image is being recorded. Doing so will not only make storage of the current image impossible, it can also corrupt other image data already stored on the SD card.

- If the product or any of its accessories are not working properly, please contact Cobra Electronics at (773) 889-3087. Our staff will assist you and if necessary, arrange for the product to be repaired or replaced.
- Test for proper operation before using the camera.
- Cobra Electronics is not responsible for any collisions, damage or personal injuries resulting from the use of the Adventure HD Action Camera.
- Cobra Electronics is not responsible for any legal repercussions from use of the Adventure HD Action Camera or from the sharing of footage.

Cobra Electronics is not responsible for any property damage or lost/stolen Adventure HD Action Cameras.

System Requirements

The camera requires a computer with the following minimum specifications for full HD video playback:

- Windows® 7 / MAC OS X 10.8
- Intel® Core Duo™ / AMD Dual-Core CPU
- 2 GB of RAM
- DirectX 9 compatible graphics solution
- Available hard disk space

The camera requires a computer with the following minimum specifications for WVGA/VGA video playback:

- Windows® Vista / MAC OS X 10.5
- Intel® / AMD Dual-Core CPU
- 1 GB of RAM
- DirectX 9 compatible graphics solution
- Available hard disk space

Minimum requirements for connecting the camera to a PC or Mac:

- Standard USB 2.0 port

Features

The camera and its included accessories offer a variety of features and functions including:

- A water-resistant case that allows you to film underwater up to 30 meters
- High definition screen that displays and plays back recorded videos
- Removable battery that is easy to replace with a spare to prolong the recording time of the camera
- Video recording while charging
- Video recording while battery powered
- HD wide-angle lens
- HDMI output
- Web camera
- Supports memory cards up to 32GB maximum storage space, class 10
- Multiple video recording formats: 1080P (interpolated) / 720P / WVGA
- Records video in .AVI format
- Multiple photo shooting modes: Single shot, Burst, and Continuous Shooting (Time-lapse)
- Compact size

Camera Function Quick Guide Diagram









Accessories

The following items are included in the camera package. If any items are missing or damaged, contact Cobra immediately.



- Waterproof Camera Casing
- Adventure HD Camera
- Camera Holder
- Straight Joint Mounts x3
- J-Hook Buckle Mount
- Tripod Mount
- Basic Buckle Mount
- Tripod Mount Adapter
- Flat / Curved Adhesive Mounts
- Velcro Straps x3
- Micro USB Charging Cable
- Cleaning Cloth
- Adventure HD 5200 Instruction Manual
- Zip Ties x4 / 3M Stickers x2

Button Primary Functions

Button	Function
Power / Mode Button 	Turn the camera on & off. Change between Video mode, Photo mode, Playback mode, and settings menu.
OK Button 	Enter and confirm settings in the settings menu.
Up Button 	Scroll up through the settings. Scroll through videos/photos in playback mode.
Down Button 	Scroll down through the settings. Scroll through videos/photos in playback mode.

Basic Camera Functions

Installing the Micro SD Card

To insert the SD card

- Find the Micro SD card slot
- Insert the card into the slot (make sure the card is facing the correct way)
- Push the card into the slot until it clicks

****Note – Please use a minimum speed Class 10 card, maximum 32GB storage capacity. Cobra recommends a name brand card such as Lexar®, SanDisk®, Kingston® or Gigastone.**

Follow these steps in reverse order to remove the SD card

****Note - Please ensure that the SD Card is inserted in the correct direction or you may damage the SD card and/or SD card reader.**

Battery

- Use only the type of battery that came with the camera. Using any other type of battery may damage the equipment and invalidate the warranty.
- Do not short the battery terminals. The battery could overheat.
- Do not attempt to split or peel the outer casing.
- Remove the battery if the camera is not going to be used for a long time. If the battery is left unused for more than 3 months, charge the battery before use.

1. Installing and Removing Batteries

- a. Press on battery cap to open it
- b. Correctly install the battery into the camera as directed by the +/- symbols
- c. Remove Battery: Open the battery cap to take the battery out

2. Charging

- a. Charging can be done by either connecting the camera to a computer or USB power adapter
- b. Charge the camera in a vehicle by connecting it to a USB car charger
- c. The camera can record video while charging
- d. The camera will charge even when it's powered off

Switching Camera On and Off

- Press and hold the Power / Mode button for 3 seconds to turn it on/off

Switching Modes & Changing Settings

Switch between video recording, photo, & playback modes and the settings menu by pressing the Power / Mode button. An icon in the upper left of the screen will show the current mode.

In the settings menu choose a setting with the Up/Down buttons and select with the OK button. Press the Power / Mode button to exit the settings menu.

Camera Modes

Video Recording Mode

Press OK to start recording. A record icon in the upper left corner will start to flash. Press OK again to stop recording. The record icon will disappear.

Video Recording Notes:

Resolution: Higher resolutions result in larger video files.

Loop Recording: When loop recording is turned on video files will be at the specified length. When the SD card is full the oldest file(s) will be deleted automatically so new files can be recorded.

Exposure: In very bright environments set the Exposure Value (EV) as a positive number. For very dark environments set the EV to a negative

number. The larger the value the greater the exposure value is compensated.

Motion Detection: If motion detection is turned on, the camera will only begin recording if it detects any movement. If the camera is moved or if there is movement in the camera's field of view, the camera will record a short segment and stop recording once the movement has stopped.

Photo Mode

Press OK to take photos.

Photo Notes:

Exposure: In very bright environments set the Exposure Value (EV) as a positive number. For very dark environments set the EV to a negative number. The larger the value the greater the exposure value is compensated.

Quick Review: After taking a photo the photo will be displayed on the screen for the selected number of seconds.

Date/Time: Sets the watermark for photos

Video Playback Mode

Press Up/Down to scroll through the files on the SD card

Press OK to playback a video file

During playback press Up/Down to adjust the volume

The Playback Mode menu allows files to be Deleted or Protected. Protected files are not deleted from the SD card as a result of loop recording or the Delete All function.

Settings Menu

(default setting in **bold**)

Press Up/Down buttons to scroll through the settings and select with the OK button. Press the Mode button to go back and to exit the menu.

MENU OPTION	SETTINGS
Video Resolution	1920x1080 (interpolated) / 1440X1080 (interpolated) / 1280X720 / 848X480 / 640X480
Photo Resolution	12M 4082x3024 / 10M 3648x2736 / 8M 3264x2448 / 5M 2592x1944 / 3M 2048x1586 / 2M HD 1920x1080 / 1.3M 1280x960 / VGA 640x480
Burst	Off / 3 Pictures / 5 Pictures (camera will take the selected number of pictures in sequence)
Time-lapse	Off / 1 Second / 2 Seconds / 5 Seconds / 10 Seconds / 30 Seconds / 60 Seconds (Takes a photo based on the selected time increment.)
Photo Stamp	Off / On
Motion Detection	Off / On
Loop Recording	Off / 2 Minutes / 3 Minutes / 5 Minutes / 10 Minutes
Record Audio	Off / On
Exposure	+2.0 / +5/3 / +4/3 / +1.0 / +2/3 / +1/3 / +0.0 / -1/3 / -2/3 / -1.0 / -4/3 / -5/3 / -2.0 (used to adjust the amount of light let into the camera sensor, use positive setting in bright conditions and negative setting in dark conditions)
Language	English , French, German, Dutch, Portuguese, Spanish, Italian, Simplified Chinese, Traditional Chinese, Japanese, Russian, Korean

Volume	0 / 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8
Auto Power Off	Off / 3 Minutes / 5 Minutes / 10 Minutes (turns camera off after selected period of inactivity)
Screen Saver	Off / On (After a period of inactivity, the camera's LCD will turn off to conserve power. Press OK to wake up the LCD screen)
Default Setting	Cancel / OK (Resets all settings to the default values)
Frequency	50Hz / 60Hz (Changing the frequency to match with the electrical frequency of your environment will prevent your video from flickering)
Date/Time	Allows users to set the current date and time
Image Rotation	Off / On (Rotates the image 180°)
Delete	Delete Current (deletes most recent file) / Delete All (deletes all files on the microSD card)
Format SD Card	Cancel / OK (formats the SD card and erases all data from the SD card)
Version	Displays camera's current version (YYYYMMDD VX.X)

Auto Power Off turns the camera off after a period of inactivity
 Format will format the SD card and erase all data from the SD card

To view the videos/photos on a computer, attach a USB cable to export the videos and photos onto a computer to play. Or you can take the Micro SD card out and access the files with a card reader.

Screen Icons

Video Mode Screen Icons


































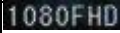
Icon	Description
	Indicates that the camera is currently in video mode.
	Displays current battery life.
	Indicates that the camera is currently charging.
	Displays the date stamp that appears on the footage.
	Displays the time stamp that will appear on the footage.
	Displays the current exposure value (EV) setting.
	Indicates that a MicroSD card needs to be inserted into the camera.
	Indicates that loop recording is turned on. Also indicates the video duration for each recording.
	Indicates "Record Audio" is turned off.
	Indicates that a MicroSD card has been inserted into the camera.
	Displays the amount of recording time that is available on the SD card.
	Displays the video resolution the camera is filming in.

Photo Mode Screen Icons

Icon	Description
	Indicates that the camera is currently in photo mode.
	Displays current battery life.
	Indicates that the camera is currently charging.
	Displays the current exposure value (EV) setting.
	Indicates that a MicroSD card needs to be inserted into the camera.
	Displays the photo resolution the camera is shooting in.
	Displays the total number of photos that can be taken at the selected resolution.
	Indicates that a MicroSD card has been inserted into the camera.
	Indicates that the camera is in burst mode.

Review Mode Screen Icons

	Indicates that the camera is in review mode.
	Displays current battery life.
	Indicates that the camera is currently charging.
	Date stamp on footage.
	Date stamp on photos.

	File name of video.
	File name of photo.
	Press OK button for video playback. Displayed when reviewing a video file.
	Displays the photo resolution the camera is shooting in.
	Indicates photo playback.
	Time stamp on video footage.
	Time stamp on photos.
	Resolution of the video clip.

Connecting to External Devices

Playback on HD TV

Turn the camera on, connect the HDMI port in the camera to the TV via an HDMI cable (not included) and choose HDMI mode on the TV. The LCD screen on the camera will turn off automatically and now all operations and functions can be seen on the TV.

View Files on PC / MAC

Connect the camera to the computer using the included USB cable. The LCD Screen displays Mass Storage and PC Camera. Press the left/right buttons to select Mass Storage and the OK button to confirm. Click on the camera drive and the subfolder DCIM to view videos and photos.

Webcam – PC Only

Connect the camera to the computer using the included USB cable and select PC Camera. The camera will connect to your PC and can now be setup and used as a webcam from the systems menu or from within programs and applications that use a webcam.

Technical Specifications

Screen	1.5inch LCD Screen
Lens	120°A + wide-angle lens
Language Options	English / German / French / Spanish / Dutch / Korean / Italian / Portuguese / Chinese Traditional / Chinese Simplified / Japanese / Russian
Video Resolution	1920*1080/30fps (interpolated) 1440*1080/30fps (interpolated) 1280*720/30fps 848*480/60fps 640*480/60fps
Video Format	AVI
Compressed Format of Videos	MJPEG
Resolution of Photos	12M/10M/8M/5M/3M
Storage	MicroSD (Class 10 – max 32GB)
Shooting Modes	Single Shot / Self-timer (2s / 5s / 10s) Continuous shooting (Time-lapse)
Frequency	50Hz / 60Hz
USB Interface	USB 2.0
Power Source Interface	5V
Battery Capacity	900mAh
Power Dissipation	260mA@4.2V
Recording Time	1080P / About 70 minutes
Charging Time	About 3 hours
Dimensions	29.8x59.2x41mm

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