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The Basics

OMNI SYNC RIG

1. Inner Cube (Synchronizer)
2. Frame (6x Outer Panels)
3. Camera Position Indicator (1-6)
4. Mounting Corner (1/4-20 Threaded Insert, 1x Top under removable Corner Cap, 1x Bottom)
5. Power Connector (2.5mm x 5.5mm)
6. HER0Bus Connector (30-pin)
7. Array Camera Status Light
8. Camera Status Light (red)
9. Shutter/Select Button
10. Wireless Status Light (blue)
11. Camera Status Screen
12. Power/Mode Button
13. Micro HDMI Port (cable not included)
14. microSD Card Slot
15. Mini-USB Port (supports composite A/V cable/3.5mm stereo mic adapter, not included)
16. Audio Alert
17. Microphone
18. HER0Port
19. Settings/Tag Button
20. Battery Door

CAMERA
/ Getting Started

MEMORY CARDS
HERO4 Black requires a microSD, microSDHC, or microSDXC memory card. The card must have a minimum rating of Class 10 or UHS-I, and a capacity of 32GB or 64GB. Visit gopro.com/help for the list of GoPro-tested microSD cards.

NOTICE: Use care when handling memory cards. Avoid liquids, dust and debris. As a precaution, power off the camera before inserting or removing the card. Check manufacturer guidelines regarding use in acceptable temperature ranges.

WARNING: Use caution when using your GoPro as part of your active lifestyle. Always be aware of your surroundings to avoid injury to yourself and others. Abide by all local laws when using your GoPro and related mounts and accessories, including all privacy laws, which may restrict recording in certain areas.

ROLE OF THE PRIMARY CAMERA
The camera that is connected to the inner cube and marked with 1 is referred to as the primary camera. All other cameras are referred to as secondary cameras.

The primary camera controls all cameras in the array for these functions:
• Powers all cameras on/off
• Connects to the Smart Remote so that all cameras can be controlled remotely
• Displays Array Ready when the system is ready for use
• Displays Array Error when one of the secondary cameras experiences an error

ASSEMBLING THE ARRAY
Installing the Cameras
The All Inclusive Omni package ships with the cameras already installed. If you want to re-install a camera or if you have the Rig Only version of Omni, follow the steps below.
1. Confirm that all cameras are HERO4 Black cameras. Other GoPros are not supported.
2. Confirm that all cameras are using the same version of array firmware. To obtain the latest array firmware for Omni, visit gopro.com/help and log in to the Omni Support Hub. If you need to create a support hub account, follow these instructions: https://community.gopro.com/html/assets/GoProOmniSupportHub.pdf
3. Complete these steps for each camera:
   a. Use the included hex key to loosen (but not remove) the screws on one of the panels.
   b. Gently pull the panel off of the frame.
   c. Connect a camera to the HEROBus connector on the inner cube.
   d. Align the outer panel with the lens, then gently slide the panel onto the lens and move the corners into place.
   e. Tighten the screws in a star pattern.
6. Tighten the screws for the panel.
7. Repeat steps 3-6 for the remaining cameras.

SUPPLYING POWER TO THE RIG
You have two options for powering the rig: external power or the camera batteries.

NOTICE: Do not switch from one power source to another (camera batteries to external power or external power to camera batteries) without first powering off the cameras. Failure to follow this guideline can lead to unexpected powering off, interrupted recordings, and erratic Omni behavior.

Powering the Rig with External Power
For extended recording time, power the rig with an external power source.
1. Be sure that the battery for the external power unit is charged.
2. Remove the batteries from the cameras.
3. Connect the power cable to the power connector.

NOTICE: Do not connect a high-voltage power source to Omni. Omni requires 5V input, but can be powered using a 12V to 5V step-down converter, such as the Switronix XP-DV-5GP. The Omni power connector is a 2.5mm x 5.5mm polarity plug. The step-down converter has an 8A rating.

Powering the Rig with Camera Batteries + Charging in the Rig
With these options, you can charge the camera batteries without removing the cameras from the rig.
• Using USB cables, connect the camera USB ports to the USB hub (available with the All Inclusive Omni package).
• Use the power connector to connect the external power to the inner cube.
The camera status lights turn on during charging and turn off when charging is complete.

Powering the Rig with Camera Batteries + Charging Outside of the Rig
With this option, you must remove the cameras from the rig.
1. Insert the battery into the camera.
2. Connect the camera to a computer, USB hub, or other USB charging adapter using the included USB cable. The camera status light turns on during charging and turns off when charging is complete.
   When charging with a computer, be sure that the computer is connected to a power source. If the camera status light does not turn on, use a different USB port.

For more battery information, see Battery (page 9).
WARNING: Use caution when using your GoPro as part of your active lifestyle. Always be aware of your surroundings to avoid injury to yourself and others. Abide by all local laws when using your GoPro and related mounts and accessories, including all privacy laws, which may restrict recording in certain areas.

MOUNTING OMNI
1. If you want to use the top 1/4-20 threaded insert, unscrew the corner cap.
2. Use a 1/4”-20 screw with the threaded insert on the top or bottom of the rig (near the power connector) to attach Omni to a monopod or other suitable mounting solution.

NOTICE: When removing Omni from a monopod or other mounting solution, disconnect the power connector first to avoid damaging the connection.

POWERING ON + OFF ALL CAMERAS IN THE ARRAY

To Power On All Cameras:
Press the Power/Mode button [ ] on the primary camera. The camera status lights flash three times and the sound indicator emits three beeps. The primary camera powers up, followed by the secondary cameras. When Array Ready disappears, you can begin capturing video or photos.

The array is properly configured if the camera mode icon and AR alternate in the upper left of the camera status screen.

If Array Error appears on the primary camera's status screen, see Array Error (page 10).

To Power Off All Cameras:
Press and hold the Power/Mode button [ ] on the primary camera for two seconds. The camera status lights flash several times and the sound indicator emits seven beeps.

/ Getting Started

/ Camera Status Screen

Your HERO4 Black features a status screen that displays the following information:

1. Camera Mode/FOV (field of view)
2. Resolution/fps (frames per second)
3. Protune™ (if on)
4. Number of Files Captured
5. Available Time on Memory Card
6. Wireless (if on)
7. Battery Life

Getting Started

Camera Status Screen

Your HERO4 Black features a status screen that displays the following information:

1. Camera Mode/FOV (field of view)
2. Resolution/fps (frames per second)
3. Protune™ (if on)
4. Number of Files Captured
5. Available Time on Memory Card
6. Wireless (if on)
7. Battery Life
Camera Modes

The HERO4 Black features three camera modes. To cycle through the modes, press the Power/Mode button.

- **Video**: Record video or time lapse video
- **Photo**: Capture single photos
- **Setup**: Adjust general camera settings

Navigating Settings Menus

Each mode has its own settings menu. Follow the instructions below on your camera or the Smart Remote to navigate the settings menus.

**TO NAVIGATE SETTINGS MENUS:**

1. Verify that the camera is in the desired camera mode. To cycle between the modes, press the Power/Mode button.
2. Press the Settings/Tag button to open the settings menu for that mode.
3. Use the Power/Mode button to cycle through the settings.
4. Press the Shutter/Select button to cycle through the options within a setting. To select an option, leave the option highlighted when you move to another screen.
5. To go back to the previous screen or exit the settings menu, press the Settings/Tag button.

Camera Menus

- Beeps
- Color
- Date/Time
- Delete
- Exposure Value
- Compensation
- Field of View
- Frames Per Second
- Interval
- ISO Limit
- LEDs
- Megapixels
- Photo
- Protune
- Setup Mode
- Sharpness
- Spot Meter
- Time Lapse Video
- Video Format
- Video Mode
- Video Resolution
- White Balance
- Wireless

For information about connecting the Smart Remote to your HERO4 Black cameras, see the Smart Remote User Guide at gopro.com/help.
**Video Mode**

Video mode contains two capture modes: Video and Time Lapse Video.

<table>
<thead>
<tr>
<th>Capture Mode</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Video (default)</td>
<td>Captures video</td>
</tr>
</tbody>
</table>
| Time Lapse Video    | Creates video from frames captured at specific intervals. Time Lapse Video is captured without audio. Protune™ is not available in this capture mode.

**CAPTURING VIDEO**

1. Verify that the camera is in Video mode. If needed, press the Power/Mode button ( ) to change to Video mode.
2. If necessary, select a different video capture mode (Video or Time Lapse Video):
   a. Press the Settings/Tag button ( ) to open the settings menu.
   b. Press the Shutter/Select button ( ) repeatedly until you get to the desired capture mode.
   c. Press the Settings/Tag button ( ) to close the settings menu. The icon for the selected capture mode appears in the upper left on your camera status screen.
3. Press the Shutter/Select button ( ). The camera beeps once and the camera status lights flash while the camera is recording.
4. To stop capturing, press the Shutter/Select button ( ). The camera status lights flash three times and the camera beeps three times.
5. If the memory card is full or the battery is out of power, your camera automatically stops recording. Your video is saved before the camera powers off.

**VIDEO SETTINGS**

The capture mode that you select in Video mode determines the settings that appear in the rest of the menu.

For instructions on how to change the following settings, see Navigating Settings Menus (page 6).

**PRO TIP:** To open the settings menu for the current mode, press the Settings/Tag button ( ).

**INTERVAL**

The Interval setting applies to Time Lapse Video. Interval determines the amount of time that passes between each captured frame. Available intervals range from 2 seconds (default) to 60 seconds.

<table>
<thead>
<tr>
<th>Interval</th>
<th>Examples</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 seconds</td>
<td>Busy street corner</td>
</tr>
<tr>
<td>5-10 seconds</td>
<td>Sunset</td>
</tr>
<tr>
<td>10-60 seconds</td>
<td>Lengthy activities, such as construction projects</td>
</tr>
</tbody>
</table>

Note: Time Lapse Video is not supported for 1440p 50 and 60 fps.

**CAPTURE RESOLUTION, FPS, AND FOV**

With Omni, each HERO4 Black camera captures video at the following resolutions:

<table>
<thead>
<tr>
<th>Resolution</th>
<th>FPS (NTSC/ PAL)</th>
<th>FOV</th>
<th>Screen Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.7K 4:3</td>
<td>30/25</td>
<td>Wide</td>
<td>2704x2028, 4:3</td>
</tr>
<tr>
<td>1440p</td>
<td>60/50</td>
<td>Wide</td>
<td>1920x1440, 4:3</td>
</tr>
</tbody>
</table>

**High-Performance Video Modes, Camera Temperatures, and Battery Performance**

When capturing video at 2.7K 4:3, it is normal for the camera to become warm and use more power.

If a camera gets too hot, a message appears on the screen indicating that the camera is shutting down. The camera stops recording, saves your video, and powers off. If this happens with a camera in Omni, let your camera sit and cool for 20 minutes before attempting to use it again.

For extended recording time, capture shorter video clips or remove the batteries from all cameras and use an external power source with the power connector on the rig.

**PRO TIP** For details about Protune settings, see Protune (page 8).

**Photo Mode**

Photo mode contains one capture mode: Single photo.

**CAPTURING PHOTOS**

1. Verify that the camera is in Photo mode. If needed, press the Power/Mode button ( ) to change to Photo mode.
2. Press the Shutter/Select button ( ). The camera beeps two times, the camera status lights flash and the counter on the camera status screen increases by one.

**PHOTO SETTINGS**

For instructions on how to change the following settings, see Navigating Settings Menus (page 6).

**PRO TIP:** To open the settings menu for the current mode, press the Settings/Tag button ( ).

**MEGAPIXELS**

The HERO4 Black captures photos at 12MP.

**Setup Mode**

Setup mode contains settings for wireless and settings to customize your camera. For instructions on how to change the following settings, see Navigating Settings Menus (page 6).

**WIRELESS**

For Omni, this setting applies only to the primary camera. Wireless must be off for all secondary cameras.

When the primary camera’s Wireless is on, a Wireless status icon appears on the camera status screen and the blue wireless lights on the camera blink intermittently. The default setting for Wireless is off.

**Setting**

<table>
<thead>
<tr>
<th>Description</th>
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<tr>
<td>PAIR</td>
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<tr>
<td>MODE</td>
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</table>

**DEFAULT MODE**

You can select the capture mode that appears when the camera powers on. The options are Video, Time Lapse Video and Single Photo.

**LEDS**

This setting determines which camera status lights (red) to activate. The options for this setting are off (default), 4 (off), 2 (front and back), 1 (front) or off (none). The default setting is 4.

**BEEPS**

You can set the volume for the sound indicators to be 100% (default), 70% or off.
ISO LIMIT
ISO Limit adjusts the camera’s sensitivity in low-light environments, and creates a balance between brightness and resulting image noise. Image noise refers to the degree of graininess in the image.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Resulting Quality</th>
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<tbody>
<tr>
<td>6400</td>
<td>Brighter video in low light, highest image noise</td>
</tr>
<tr>
<td>3200</td>
<td>Brighter video in low light, increased image noise</td>
</tr>
<tr>
<td>1600 (default)</td>
<td>Moderately bright video in low light, moderate image noise</td>
</tr>
<tr>
<td>800</td>
<td>Darker video in low light, marginal image noise</td>
</tr>
<tr>
<td>400</td>
<td>Darker video in low light, minimum image noise</td>
</tr>
</tbody>
</table>

SHARPNESS
Sharpness controls the sharpness of your video footage.

<table>
<thead>
<tr>
<th>Sharpness Setting</th>
<th>Resulting Quality</th>
</tr>
</thead>
<tbody>
<tr>
<td>High (default)</td>
<td>Ultra-sharp video</td>
</tr>
<tr>
<td>Medium</td>
<td>Moderately sharp video</td>
</tr>
<tr>
<td>Low</td>
<td>Softer video</td>
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EXPOSURE VALUE COMPENSATION (EV COMP)
Exposure Value Compensation affects the brightness of your video. Adjusting this setting can improve image quality when shooting in environments with contrasting lighting conditions.

<table>
<thead>
<tr>
<th>Setting</th>
<th>Description</th>
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<tbody>
<tr>
<td>-2.0</td>
<td>-1.5</td>
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</tbody>
</table>

PRO TIP: Exposure Value Compensation adjusts brightness within the existing ISO Limit. If brightness has already reached the ISO Limit in a low-light environment, increasing the Exposure Value Compensation does not have any effect.

RESET
This option resets all Protune settings to their default values.
Transferring Files to a Computer

Remove the microSD cards from the cameras.
1. Complete these steps for each microSD card:
   a. Connect the card reader to your computer.
   b. Insert the microSD card into the reader.
   c. Transfer your files to your computer.
   d. If appropriate, delete the files from your cards.

NOTICE: Be sure to back up your files before deleting them.

Omni Files and GoPro Software

Files recorded with Omni are optimized for use with GoPro Omni Importer. This application offers unique functionality for Omni files: fast previewing, color correction, image stabilization, file export, and media management tools.

You can also use Omni files with GoPro Autopano Video Pro software for advanced stitching, stabilizing, and VR content publishing. Content created using the GoPro Omni Importer and GoPro Autopano Video Pro can be used with GoPro VR (available for iOS® and Android) and GoPro VR for desktop. For more information, visit kolor.com and refer to the user manuals for these apps.

Note: Omni recordings were not designed to work with the GoPro App (mobile or desktop), Quik™, or Splice.

Smart Remote

The Smart Remote can control your cameras from up to 600’ (180m) away in optimal conditions with a clear line of sight between the Smart Remote and the Omni. To use the Smart Remote with Omni, pair it only with the primary camera. You can then control all 6 cameras remotely.

For information about connecting the Smart Remote to your HERO4 Black cameras, see the Smart Remote User Guide at gopro.com/help.

Note: You cannot use more than one Smart Remote with Omni or control more than one Omni with a Smart Remote.

Battery

MAXIMIZING BATTERY LIFE

The battery icon on the camera screen blinks when the battery drops below 10%. If the battery in any of the cameras reaches 0% while recording, the camera saves the file and the array powers off.

Extreme cold temperatures can decrease battery life. To maximize battery life in cold conditions, keep the camera in a warm place prior to use.

CHARGING INFORMATION

The battery charges to 100% in approximately two hours when using GoPro’s USB-compatible Wall or Auto Charger (both sold separately).

When charging with a computer, be sure that the computer is connected to a power source. If the camera status light does not turn on, use a different USB port.

The included lithium-ion battery comes partially charged. No damage occurs to the camera or battery if used prior to a full charge.

You can also charge the battery outside the camera using the HERO4 Dual Battery Charger (sold separately).

WARNING: Only use manufacturer-recommended replacement batteries for your camera.

REMOVING THE BATTERY FROM THE CAMERA

The HERO4 Black battery is designed to have a tight fit to maximize reliability in high-vibration activities.

To Remove the Battery:
1. Open the battery door by placing your thumb in the indentation in the battery door (on the bottom of the camera) and sliding it to the left. Allow the door to open.
2. Grasp the battery pull-tab and remove the battery from the camera.

WARNING: Using a wall charger other than a GoPro Wall Charger can damage the GoPro battery and could result in fire or leakage. Only use chargers marked: Output 5V 1A. If you do not know the voltage and current of your charger, use the included USB cable to charge the camera from your computer.

BATTERY STORAGE AND HANDLING

The camera contains sensitive components, including the battery. Avoid exposing your camera and battery to very cold or very hot temperatures. Low or high temperature conditions may temporarily shorten the battery life or cause the camera to temporarily stop working properly. Avoid dramatic changes in temperature or humidity when using the camera, as condensation may form on or within the camera.

Do not turn on your camera if it is wet. If your camera is already on, turn it off and remove the battery immediately. Allow the camera to dry thoroughly before using it again. Do not dry the camera or battery with an external heat source such as a microwave oven or hair dryer. Damage to the camera or battery caused by contact with liquid is not covered under the warranty.

WARNING: Do not drop, disassemble, open, crush, bend, deform, puncture, shred, microwave, incinerate or paint the camera or the battery, if it is removable. Do not insert foreign objects into any opening on the camera. Do not use the camera or the battery if it has been damaged—for example, if cracked, punctured or harmed by water. Disassembling or puncturing the battery (whether integrated or removable) can cause an explosion or fire.

Do not store your battery with metal objects, such as coins, keys or necklaces. If the battery terminals come in contact with metal objects, this may cause a fire.

BATTERY DISPOSAL

Most rechargeable lithium-ion batteries (whether removable or integrated into the camera) are classified as non-hazardous waste and are safe for disposal in the normal municipal waste stream. Many localities have laws in place requiring battery recycling. Check your local laws to make sure that you can dispose of rechargeable batteries in your regular trash. To safely dispose of lithium-ion batteries, protect terminals from exposure to other metal with packing, masking or electrical tape so they do not cause a fire while being transported.

Lithium-ion batteries, however, do contain recyclable materials and are accepted for recycling by the Rechargeable Battery Recycling Corporation’s (RBRC) Battery Recycling Program. We encourage you to visit Call2Recycle at call2recycle.org or call 1-800-BATTERY in North America to find a convenient recycling location.

Never dispose of a battery in a fire because it may explode.
MICROSD CARD MESSAGES
If you cannot capture video, one of the microSD cards may be missing, full, or experiencing an error.

NO SD
No card present. The camera requires a microSD, microSDHC or microSDXC card (sold separately) to capture videos.

FULL
Card is full. Delete files or swap card.

SD ERR
Camera is unable to read card formatting. Reformat the card in the camera.

PRO TIP: Reformat your microSD cards before each shooting session to ensure that the cards remain in good condition.

ARRAY ERROR
If Array Error appears on the primary camera, check the secondary cameras for errors and improper connections. To identify the secondary camera that is experiencing the error, refer to its light on the inner cube.
- No light on the inner cube:
  - The camera has no battery installed or the battery needs charging
  - The camera is not running array camera firmware or is running a different firmware version than the other cameras in the array
- Red light on in the inner cube is blinking:
  - The camera has no microSD card
  - The camera’s microSD card has an error
Be sure to resolve any issues before attempting to record.

FILE REPAIR ICON
If your last video file was corrupted during recording, the camera displays the File Repair icon while it tries to repair the file. When this process is finished, press any button to continue using the camera.

TEMPERATURE ICON
The Temperature icon appears on the camera status screen when the camera becomes too hot and needs to cool down. If this happens with a camera in Omni, let it sit and cool for 20 minutes before attempting to use it again. Your camera was designed to identify conditions of overheating and is designed to respond accordingly.