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# GoPro Compatibility & Connecting to the LINC Panoray



# Compatible GoPro Cameras

- Hero4 Black



- Hero5 Black



- Hero5 Session



- Hero6 Black



- Hero7 Black



# Connecting a GoPro to LINC Panoray

Option available for 2018 & newer models



Making a GoPro connection to your phone and then to the boat can be tricky, so certain steps must be taken if you are not successful the first time. Here are the steps to take before connecting the GoPro to the LINC Panoray:

## Initial GoPro Setup – use GoPro camera and your phone only



1. Download GoPro app to your (or the customer's) phone
2. Follow the GoPro app instructions for connecting a new GoPro
3. Once the GoPro is connected via Wi-Fi and Bluetooth, test it by making sure you can control the GoPro through your phone and stream video to your phone. This part is tricky because the GoPro camera has both types of wireless connection and both are used when you pair the camera to your phone.
4. If you are unsuccessful connecting the GoPro to your phone, you must rectify this before attempting to connect to the LINC Panoray. Before re-trying a connection between the GoPro and your phone,
  - a. On your phone, go into your phone's Bluetooth menu and "forget" the GoPro.
  - b. On your phone, go into your phone's Wi-Fi menu and "forget" the GoPro Wi-Fi connection too.
  - c. On your phone, go into the GoPro app and delete the GoPro.
  - d. On your GoPro, go into the GoPro camera's settings and "reset Wi-Fi"
5. Once all Wi-Fi and Bluetooth connections are forgotten/deleted/reset, then you can attempt to connect the GoPro to your phone again.

Once you establish a functional connection between the GoPro and your phone, this completes the initial GoPro Setup with your phone. You should now have a GoPro name and GoPro password to use when connecting to the LINC Panoray.

**\*IMPORTANT\*** You must disconnect your phone's Wi-Fi from the GoPro before connecting to the LINC Panoray. Failure to do so may result in an unreliable connection between the GoPro and the LINC Panoray.

## Connecting GoPro to LINC Panoray



### To connect GoPro to LINC Panoray:

1. Before you begin
  - On your phone, go to the Wi-Fi settings and disconnect your phone's Wi-Fi from the GoPro if it's still connected. Once this step is completed, put your phone away because it is no longer required. The GoPro can be connected to the LINC Panoray directly from now on.
  - On the Panoray GoPro Settings page, go to SAVED GOPRO CAMERAS and delete your camera from the list if it is still there from a previously failed attempt to connect. If it isn't deleted first, Panoray will not be able to connect it as a new camera.
2. Check LINC software in System Info as software date 7/27/2018 added Hero6 and Hero7, software 10/11/2018 improved GoPro connectivity issues
3. On the GoPro, make sure Wi-Fi is still turned ON
4. **\*IMPORTANT\*** GoPros Hero6 Hero7 need to have their Wi-Fi set to 2.4GHz not the default 5GHz, failure to change will result in connectivity issues
5. Obtain the GoPro Name and Password, then exit the GoPro's settings menu. Failure to exit the GoPro's settings menu may prevent LINC Panoray from displaying the preview image on the GoPro Control page.
  - On GoPros with touchscreens, navigate to the menu which displays the camera Name and Password – remember or write them down.
  - On GoPros without touchscreens, you must remember the name and password you created in the initial setup.
  - You will not need to do anything further with the GoPro for the connection process.
6. On the LINC Panoray GoPro page, go to NEW GOPRO CAMERA and scan for new GoPro cameras if none appear automatically
7. Select your GoPro and enter the password when prompted.
8. Wait up to 30 seconds for the Connection status to change to "CONNECTED".
9. On the Control tab, tap the preview graphic to start the preview and proceed with using the system. If you are able to view the live video preview, you have succeeded in connecting the GoPro to the LINC Panoray.

## Reconnecting the GoPro from now on

Once a GoPro camera has been completely set up and previously connected to the LINC Panoray display, the GoPro must be reconnected by the user each time the system is rebooted. The reconnection process is simple:

1. Turn on the GoPro and make sure its Wi-Fi is also turned on. *\*doublecheck that your phone does not automatically connect to the GoPro at this time\**
2. Once the GoPro's Wi-Fi is turned on, exit the GoPro's settings menu. The camera will not stream video while in a settings menu.
3. On the LINC Panoray, go to the GoPro page Settings tab
4. Touch SAVED GOPRO CAMERAS and select the desired GoPro. Reconnection is complete. Test the connection by starting the preview on the LINC Panoray



# Excerpts from the Owners Manual regarding GoPro



GOPRO MENU



FIG. H1 - CONTROL TAB ON THE GOPRO® MENU

CONTROL TAB

The GoPro® Menu allows the operator to control a GoPro® camera through a WiFi connection with the LINC screen. In order to connect to the LINC screen, you must use a GoPro® camera with built in WiFi functionality (HERO4 or newer).

The Control tab contains the following information/functions, in order from top to bottom:

**Camera Info/Preview** - If a GoPro® camera is connected, this area will contain the resolution/frames per second, current battery level, and recording time remaining (or number of images remaining). This area also contains a preview window that can display a live video feed from the connected camera. Please note that this preview feature will be unavailable while the camera is recording/in-use.

**GoPro® Record/Capture/Timelapse** - If in video mode, this will start or stop video recording. If in single photo mode, this will take one picture. If in burst photo mode, this will take multiple pictures. If in Timelapse photo mode, it will start or stop the timelapse recording.

**GoPro® Mode** - selects the mode of the connected GoPro® camera. The four selectable modes are 1) Video 2) Single Photo 3) Burst Photo and 4) Timelapse Photo.



GOPRO MENU



FIG. H2 - SETTINGS TAB ON THE GOPRO® MENU

SETTINGS TAB

The Settings tab contains the following information/functions, in order from top to bottom:

**Camera Name** - The upper area will contain the name of the currently connected GoPro® camera and the current battery status. If a camera is not connected through WiFi, then this area will display a “not connected” message.

**New GoPro® Camera** - Will bring up a pop-up menu so that the operator can connect a new GoPro® camera through WiFi. (Please see the following pages for further instructions of the connecting process)

**Saved GoPro® Cameras** - Will bring up a pop-up menu of the previously used GoPro® cameras. The operator may then choose to connect or delete any previously used cameras.

**GoPro® Auto Record** - If video or photo timelapse mode are selected, Auto Record will automatically start recording once the boat's speed is greater than 8 mph and will automatically stop recording once the boat's speed is less than 7 mph.



GOPRO MENU



FIG. H3 - CONNECTING TO A NEW GOPRO® CAMERA\*

SETTINGS TAB - CONNECTING A NEW GOPRO® CAMERA

**\*NOTE** - Before initiating the connecting process through LINC, make sure that your wireless network is turned on from your GoPro® camera.

To add a new camera, select “New GoPro Camera” and a pop-up menu will appear.

From the pop-up menu, select “Scan for GoPro Cameras” so that LINC can search for nearby wireless networks. When the scanning process is complete, a list of available wireless networks will appear with the signal strength indicated to the left of the network name.

Scroll down to select the desired camera. From there, a keyboard will pop up for you to enter the password for the GoPro WiFi (the password may be displayed on your camera's screen).

After entering the password, the pop-up menu will disappear, the system will finish the connecting process with the camera, and then the name of the camera will appear with a battery status icon and the “Connected” text. At this stage, you may now remotely control your GoPro® camera through the “Control” tab or you may view the saved files on your GoPro® camera through the “Gallery” tab.



GOPRO MENU



FIG. H4 - POP-UP MENU FOR CONNECTING A NEW GOPRO® CAMERA



FIG. H5 - POP-UP MENU FOR ENTERING WIFI PASSWORD FOR A GOPRO® CAMERA



GOPRO MENU



FIG. H6 - CONNECTING TO A SAVED GOPRO® CAMERA\*

SETTINGS TAB - SAVED GOPRO® CAMERAS

**\*NOTE** - Before initiating the connecting process through LINC, make sure that your wireless network is turned on from your GoPro® camera.

To re-connect to a previously connected GoPro camera, select "Saved GoPro Cameras" and a pop-up menu will appear (see Fig. H7).

Scroll through the list of previously connected GoPro cameras and select the desired camera.

The pop-up menu will then disappear and the name of the camera will appear with a battery status icon and the "Connected" text. At this stage, you may now remotely control your GoPro® camera through the "Control" tab or you may view the saved files on your GoPro® camera through the "Gallery" tab.



GOPRO MENU



FIG. H7 - POP-UP MENU FOR CONNECTING A NEW GOPRO® CAMERA

