

UpBlink Quick Start Guide

1 Prepare the GoPro camera for use with UpBlink:

Check that both the GoPro camera and UpBlink are running the most recent firmware available. The latest UpBlink firmware can be downloaded from the page: <https://cam-do.com/pages/upblink-firmware>. Use the GoPro menu to adjust the default settings (Resolution, RAW, Protune, etc) for each required capture mode. Check to ensure that the SD card used has the U3 speed rating that is required by the GoPro camera for reliable operation.



U3 speed rating

2 Connect UpBlink to the GoPro using the included USB-C cable:

Connect the camera port of UpBlink to the GoPro's USB port using only the custom CamDo USB-C cable included with UpBlink.



Note: The included CamDo USB-C cable is a custom fully populated cable that is required for UpBlink to communicate with the GoPro camera.

3 Connect UpBlink to a 5V USB power supply:

When the microUSB power port of UpBlink is connected to a USB power source the LED will flash green twice before going dark, indicating that UpBlink is receiving power and will begin the currently programmed schedule. If the USB power supply provides a 2Amp output, it is highly recommended to remove the GoPro battery from the camera to enable a **Safety Reset Feature* that allows the GoPro to recover in the event of a camera crash.



Battery Packs Require Always On Mode:

An Always On operating mode (available on the V44) is required to maintain the power output since UpBlink draws very low power when the GoPro camera is turned off between scheduled triggers. **See back for additional information on power and Always On mode.*

4 Hold the button to activate the UpBlink WiFi Access Point signal:

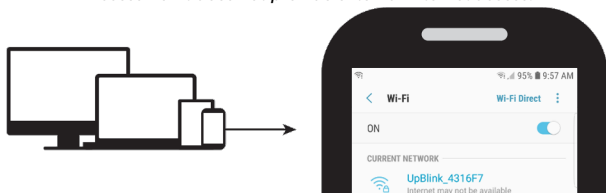
If the LED illuminates green when the button is pressed, holding the button for three seconds will activate the WiFi signal. If the LED illuminates yellow when the button is pressed, UpBlink currently busy and you should either wait a few seconds before retrying or continue holding the button for three seconds to end the active process. While booting up the WiFi Access Point signal the LED will flash green once a second. When the WiFi signal becomes active, the LED will flash green quickly five times. The LED will continue to flash green once every five seconds to indicate the WiFi Access Point signal is actively broadcasting and UpBlink will not trigger any schedules when set to the programming mode.



5 Connect to the UpBlink WiFi Access Point signal:

With a smartphone, computer, or other wireless device, connect to the UpBlink WiFi network. The network name will begin with "UpBlink", however, the appended text of the network name can be adjusted through the web interface. If prompted for a password, the default password to connect is: **1234567890**

Note: The UpBlink WiFi Access Point does not provide external internet access.



6 Open the UpBlink programming web interface:

Open any web browser, such as Chrome, Firefox, or Safari, and navigate to the page: <http://10.0.0.5:5000> in the address bar.

You will be presented with the programming web interface for UpBlink.

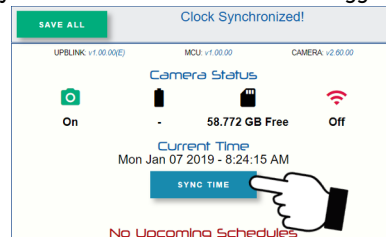
The UpBlink status message bar will stick to the top of the programming interface and display information about your schedule modifications.



Note: The web browser can only access the UpBlink programming web interface pages while the device is connected to the UpBlink WiFi Access Point network (Steps 4 and 5).

7 Use the SYNC TIME button to set UpBlink's location settings:

Click the SYNC TIME button to update UpBlink to the local timezone and location settings that are used on your viewing device. The Camera Time displayed will be synced to the GoPro camera when triggering a schedule.



8 Enable and modify the schedules to suit your capture requirements:

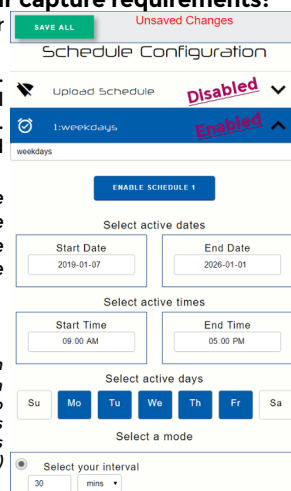
Each of the individual schedules can be hidden or revealed by clicking on the drawer.

Edit the schedules to fit your required interval. When enabled, schedule buttons and drawers will be highlighted blue, while disabled will be white. Each schedule will repeat weekly on the enabled days between the date period and times selected.

When triggering a schedule, UpBlink will switch the camera to the selected capture mode but will use the resolution and other default settings that have been most recently set for each capture mode from the GoPro menu (step 1).

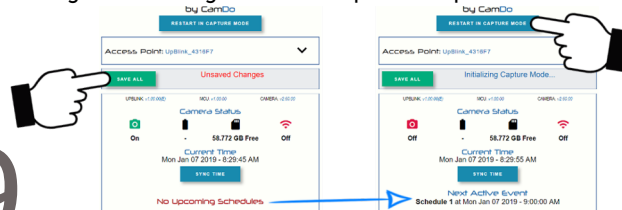
See back for cloud upload schedule information.

Note: If overlapping schedules have been programmed and there is a conflict between a start time for any action, the priority is given to the lower numbered schedule. If a schedule is due to be triggered while another schedule is currently performing a task (recording/uploading) the new schedule's trigger will be skipped.



9 Save before rebooting UpBlink into Capture Mode:

Click the SAVE ALL button to save any changes to the schedules. The camera status box will report when the **Next Active Schedule** is due to be triggered if UpBlink is set to capture mode. To exit UpBlink's programming mode, click the **RESTART IN CAPTURE MODE** button. The LED will flash yellow once per second when turning off WiFi and go dark when UpBlink's capture mode is active.



Note: If any schedule errors are present, the SAVE ALL button will become grey and disabled. Correct any scheduling errors to enable the green SAVE ALL button.

Setup Complete

To update to the latest UpBlink firmware and for more detailed instructions, visit:

<https://cam-do.com/pages/upblink-documentation>

CamDo
www.cam-do.com

For Time Lapse Calculations, visit:

<https://cam-do.com/pages/photography-time-lapse-calculator>

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Powering UpBlink:

UpBlink cannot be powered directly from the GoPro battery. UpBlink is powered externally by via a microUSB cable plugged into the power port of UpBlink. UpBlink will then manage power to the GoPro camera via the USB-C cable.

If your power supply is rated for at least 2Amps output at 5Volts, such as our V44 battery, it is recommended to remove the GoPro battery to enable a ***safety reset feature**. If your power supply cannot provide 2Amps, the GoPro battery must remain inside the camera to provide the additional power needed to trigger the GoPro camera. If the GoPro battery is used, UpBlink's power input will maintain a charge the GoPro battery, however, the use of the GoPro battery will disable the ***safety reset feature**.



***Safety Reset Feature:** Removing the GoPro battery allows for UpBlink to fully manage the power supply to the GoPro camera. Therefore if the GoPro camera becomes unresponsive, such as in the event of a camera crash, UpBlink can pull all power from the GoPro to force a hard reset to restore camera functionality to the system (similar to pulling and replacing the battery when a device crashes). However, if the GoPro battery remains inside the camera, when UpBlink attempts to remove power from the GoPro, UpBlink will not be able to reset the camera since the GoPro remains powered from the camera battery.

Always On power requirement:

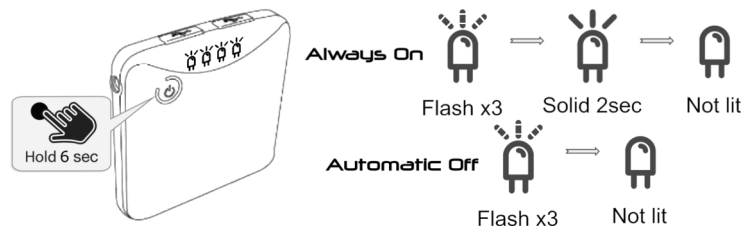
UpBlink draws very low amounts of power when the camera is turned off between scheduled triggers. Therefore the power supply must be able to operate with an Always On mode to ensure that the power output remains active during periods of inactivity.

Most of the USB battery packs on the market have a standard Automatic Off feature which turns off the battery's output if the battery is not constantly supplying power to a device. If the GoPro is powered off for more than a few minutes between scheduled triggers, the external battery pack might automatically shutdown due to inactivity (low power output). This automatic off mode would result in the camera system becoming unpowered, while the battery pack still has lots of capacity remaining.

Activating Always On mode with the V44 or V15 battery pack:

Our V44 and V15 battery packs have two modes of operation, the default standard Automatic Off mode and the required Always On mode.

It is easiest to determine the V44 and V15 operating mode when the battery pack is disconnected and neither charging or supplying power. If the battery is recharging, the charge indicator LEDs will prevent reading the battery mode. To change modes, press and hold the power button for at least six seconds until the LEDs flash three times to change modes. After the three flashes, if the LEDs remain lit for a few seconds, you are now in Always On mode. If the LEDs flash three times and then go dark immediately, you are now in Automatic Off mode. If you are not in the desired mode, hold the button again to change modes.



We have a short video on our website to help you double check the battery mode: <https://cam-do.com/pages/external-batteries-documentation>

Troubleshooting Logs:

When UpBlink encounters any problems, an entry is saved into the Event Log. You can access the UpBlink's Event Log when connected to UpBlink's WiFi and using a web browser to navigate to the URL: <http://10.0.0.5:5000/log.html> or by clicking the [Logs Page](#) link at the bottom of UpBlink's programming interface.



Typically when scheduled triggers are missed, but there is no log entry for this time period, this is an indication that UpBlink has become unpowered. If using a V44 battery, double check Always On mode is enabled as described above.

See our UpBlink Troubleshooting page for additional troubleshooting information: <https://cam-do.com/pages/upblink-troubleshooting-guide>

How to upload images to CloudX:

For image upload capability, you must have a 2.4GHz WiFi router/hotspot signal within the range of UpBlink to provide the internet connection. When an upload schedule is active, UpBlink's USB-A port will supply power to the connected accessory allowing this port to manage power for a "MiFi USB hotspot router".

To schedule image uploads to the CamDo CloudX server, open and enable the top schedule named "Upload Schedule" to enter your email address and router details. The upload frequency is set the same way as the capture schedules. It is important that uploads do not occur at the same start time and interval as capture triggers, since capture triggers cannot occur while uploading footage.

All images captured by the GoPro will be saved to the SD card with the resolution set from GoPro camera menu. However, UpBlink provides the option to upload either the full sized image on the SD card or a smaller compressed image to reduce the upload file size.

The upload mode menu provides the option to either upload all images that have been captured after a specific date, or upload only the latest image that was captured before the upload schedule was triggered. The Maximum Upload Timeout period is used to ensure the uploading of footage is stopped after a set amount of time has elapsed. The upload timeout can be set for durations as short as two minutes for scheduling uploads between capture intervals. The minimum upload timeout period required to complete the upload of all footage will be dependent on the number of photos and router's internet speed. Images scheduled for upload that have not been sent to the CloudX server will be added to the upload backlog.



CloudX Registration and Subscriptions:

Each UpBlink includes a 2 week free trial period to the CloudX upload service and remains unregistered until the first connection to our CloudX server. Upon the first successful connection to the CloudX server, the UpBlink will become registered to the CloudX account for the email address used in the programming interface. Once UpBlink is registered to your CloudX account and has begun the free trial period, you will then be able to login to your CloudX account at cloudx.cam-do.com to assign any additional subscriptions and manage device settings. Additional subscriptions will be assigned a start date to begin on the day the currently active subscription is set to expire. If the email address used is not yet registered in CloudX, you will be sent a CloudX account activation email.

Device	Plan	Start	End	
Unassigned	CloudX Pro - 12 months			Assign to device
UpBlink Example	Free Trial	2019-01-07	2019-01-21	Remove from this device

Additional CloudX subscriptions can be purchased from the CamDo store website www.cam-do.com by using the same order purchasing email address that is programmed into UpBlink for contacting CloudX. A CloudX subscription period does not activate until it has been manually assigned to a device registered to your CloudX account.

See our CloudX User Manual for additional information about the upload service: <https://cam-do.com/pages/cloudx-manual>

