



# Camtraptions PIR v4 Manual (*extract*)



# Custom Variables

The **Custom Variables** menu provides access to advanced configuration options that allow the behaviour of the sensor to be **fine-tuned**. These variables modify timing parameters that affect how the camera is triggered, how long signals are held for, and other aspects of sequence timing. For the majority of users, customising these settings is generally unnecessary.

In some cases, enabling or adjusting a Custom Variable may **override standard Still or Video Mode settings**, resulting in slightly different sequence timing than expected. These options are intended for advanced users who require precise control over the triggering sequence.

## Accessing Custom Variables

1. From the **Home Screen**, press and hold the **Left and Right Buttons** simultaneously for more than **2 seconds** until the **Custom Variables (C VAR)** screen appears.
2. Use the **Left** and **Right** buttons to select the desired variable number.
3. Use the **Up** and **Down** buttons to select the desired variable value.
4. Press **Set** to save the new value.
5. Some custom settings can also be enabled or disabled by holding the **Up** or **Down** button for more than **2 seconds** to toggle them **On** and **Off**.



## Leaving the Custom Variable Menu

From the custom variable menu, you can return to the Home Screen by either:

- Not pressing a button for 20 seconds.
- Pressing the **Left and Right Buttons** simultaneously for more than **2 seconds**.

## Available Custom Variables

C Var	Description	Default Value	Adjustable Range
0	<a href="#">Sampling Frequency / Adaptive Sensitivity</a> - Fine-tune the sensor sensitivity and response speed.	8	1-16
1	<a href="#">Half-Press Length (Before Full Press)</a> - Determines how long the half-press (wake) signal is held before the full-press trigger in both still and video modes.	0.1 s	0.1-5.0 s (in 0.1 s steps)
2	<b>Half-Press Length (After Full Press)</b> - Determines how long the half-press signal is held after the full-press trigger in both still and video modes.	0.1 s	0.1-5.0 s (in 0.1 s steps)
3	<b>Full-Press Duration (Still Mode)</b> - If enabled, this overrides the full-press timing determined by the FPS setting.	—	0.1-2.9 s (in 0.1 s steps)
4	<b>Gap Between Full-Press Signals (Still Mode)</b> - When <i>Number</i> (NUM) > 1, this defines the interval between shots. If enabled, it overrides the FPS-determined interval.	—	0.1-15.0 s (in 0.1 s steps)
5	<b>Full-Press Duration (Video Mode)</b> - Defines how long the full-press signal is held when starting or maintaining a video recording.	1.0 s	0.1-2.9 s (in 0.1 s steps)
6	<b>Maximum Video Length Extension Limit</b> - Sets an absolute maximum video extension length in minutes. This limits the total recording duration when <i>Extend Time</i> is enabled. The maximum recording time will be this variable plus the standard <a href="#">recording time</a> .	—	1-60 min
7	<a href="#">Flash Wake / Flash Fire Signals</a> - Controls whether flash trigger signals are sent during still sequences: <ul style="list-style-type: none"> <li>• <b>0</b> - No flash wake or fire signals sent.</li> <li>• <b>1</b> - A 0.2 s <b>Flash Wake</b> signal is sent immediately before the <b>first</b> camera trigger signal in any still sequence.</li> <li>• <b>2</b> - A 0.2 s <b>Flash Wake</b> signal is sent immediately before the <b>first</b> camera trigger signal, and a 0.2 s <b>Flash Fire</b> signal is sent after <b>every</b> camera trigger signal in the sequence.</li> </ul>	0	0-2
8	<a href="#">Flash Signal Channel</a> - Sets the <b>wireless channel</b> (1-15) used for the Flash Wake and Flash Fire signals defined by C Var 7. This should be set to a different channel than the <a href="#">main camera trigger channel</a> .	—	1-15

C Var	Description	Default Value	Adjustable Range
9	<b>Wireless Power Boost</b> - When set to "1", this setting increases the strength of the wireless signal to improve reliability in setups where there may be signal interference, long distances, or obstructions between the sensor and the receiver. This is an <b>experimental option</b> intended primarily for troubleshooting wireless connectivity issues. In most circumstances, the default power level provides the best balance between range, battery efficiency, and signal stability.	0	0-1

To restore factory defaults, see the [Reset to Defaults](#) section.

Adjusting Custom Variables can affect the timing of the camera's wake, trigger, and release signals.

*This manual extract applies to firmware version 1.19.*

*Exported from [docs.camtraptions.com](https://docs.camtraptions.com).*