

Web camera

Web camera module captures video clips from webcam, saves it locally and sends to cloud as telemetry.

Implementing class: `com.arrow.selene.device.uvc.UvcModule`

OS dependency: None

Requirements: OpenCV library, webcam hardware

Properties:

Name	Data type	Unit of measurement	Valid values	Default value	Description
index	integer	N/A	0-2147483647 (0x7fffffff)	N/D	Defines index of local camera to be used for capturing
maxFrameCounter	integer	N/A	0-2147483647 (0x7fffffff)	N/D	Defines maximum number of frames in video clip
saveToFile	boolean	N/A	true/false	true	Defines if clip should be saved to file
frameRate	integer	N/A	0-2147483647 (0x7fffffff)	30	Defines FPS of captured video
frameWidth	integer	pixels	0-2147483647 (0x7fffffff)	640	Defines width of captured video
frameHeight	integer	pixels	0-2147483647 (0x7fffffff)	480	Defines height of captured video
fourcc	string	N/A	<fourCC>	H264	Defines codec to be used in captured video encoding
directory	string	N/A	<path to directory>	/opt/videos	Defines directory that captured clips should be saved to. Makes sense only if <code>saveToFile=true</code>
fileNamePattern	string	N/A	N/A	%s.mp4	Defines pattern to build file name
saveAsStream	boolean	N/A	true/false	false	Defines if clip should be saved as images stream
streamNamePattern	string	N/A	N/A	%s.stream	Defines pattern to build stream file name
videoLenMins	long	minutes	0-9223372036854775807 (0xffffffffffffff)	2	Defines maximum length of captured video
liveStream	boolean	N/A	true/false	true	Defines if captured images should be sent as telemetry to cloud
liveFrameWidth	integer	pixels	0-2147483647 (0x7fffffff)	320	Defines width of images to be sent as telemetry. Makes sense only if <code>liveStream=true</code>
liveFrameHeight	integer	pixels	0-2147483647 (0x7fffffff)	240	Defines height of images to be sent as telemetry. Makes sense only if <code>liveStream=true</code>
sendFrameCounter	integer	N/A	0-2147483647 (0x7fffffff)	2	Defines rate of sending captured images as telemetry. Makes sense only if <code>liveStream=true</code>
retryIntervalSecs	integer	seconds	0-2147483647 (0x7fffffff)	5	Defines interval between attempts of capturing in case if errors occurred
detectDisconnectMs	integer	milliseconds	0-2147483647 (0x7fffffff)	500	Defines maximum time for capturing one image. Exceeding of this threshold means webcam disconnected