

IPEVO Camera API v1.0.0.1

Camera

- UVCCamera
 - IPEVOCamera
 - IPEVOCameraWithHID
 - P2V
 - P2V_R
 - VZ_1
 - Ziggi
 - ZiggiHD
 - ZiggiHD_2
- NetCamera

Camera

Syntax:

get camera from [CameraManager](#).sharedManager.cameras

Property:

Name	Description
model	Obtain the camera model string. EX: IPEVO Point 2 View
shortModel	Obtain the camera short model string. EX: P2V
CameraInstanceName	Obtain the camera instance name string. EX: IPEVO Ziggi-HD #1

Function:

Name	Description
hasCapability(Capability capability)	Return camera capability
PrepareToWork()	Initiate some basic camera functions
prepareToDetach()	Prepare the camera for detachment
supportedFormats()	return List<VideoResolutionFormat>
setFormat(VideoResolutionFormat format)	Set the camera image stream format
getFormat(out VideoResolutionFormat format)	Obtain the current camera current stream format
getDefaultFormat(out VideoResolutionFormat format)	Obtain the default camera default stream format
setBrightness(short value)	Set brightness value
getBrightness(out short value, PropertyValueType type)	Obtain the brightness value
setContrast(short value)	Set contrast value. Set the value between getContrast(out maxValue , PropertyValueType.Maximum) and getContrast(out minValue , PropertyValueType.Minimum)
getContrast(out short value, PropertyValueType type)	Obtain the contrast value. The type can be... PropertyValueType.Default or PropertyValueType.Maximum or PropertyValueType.Minimum or PropertyValueType.Current
setGamma(short value)	Set gamma value
getGamma(out short value, PropertyValueType type)	Obtain the gamma value
setHue(short value)	Set hue value
getHue(out short value, PropertyValueType type)	Obtain the hue value
setSaturation(short value)	Set saturation value
getSaturation(out short value, PropertyValueType type)	Obtain the saturation value
setSharpness(short value)	Set sharpness value
getSharpness(out short value, PropertyValueType type)	Obtain the shapeness value
setWhiteBalance(short value)	Set white balance value
getWhiteBalance(out short value, PropertyValueType type)	Obtain the white balance value
setAutoWhiteBalance(bool value)	Set auto white balance value
getAutoWhiteBalance(out bool value, PropertyValueType type)	Obtain the auto white balance value
setFocus(bool isFocusLock, short focusDistance)	Set focus mode and focus distance
getFocus(out short value, PropertyValueType type)	Obtain the focus mode value = 0, single focus

	value = 1, conitune focus value = 2, focus lock value = 3, focus not lock
getFocusValue(out short value, PropertyValue type)	Obtain the focus distance
setAutoExposureLock(bool value)	Set auto exposure lock
getAutoExposureLock(out bool value)	Obtain the auto exposure lock
setExposure(short value)	Set exposure value 1~15
getExposure(out short value, PropertyValue type)	Obtain the current exposure value
getDefaultExposure(out short value)	Obtain the default exposure value
setFrequency(PowerlineFrequency value)	Set power frequency
getFrequency(out PowerlineFrequency value, PropertyValue type)	Obtain the power frequency
getFirmwareVersion(out string ver)	Obtain the camera firmware version
startFocus()	Let the camera start performing focus

CameraManager Property

Syntax:

```
CameraManager cameraManager = CameraManager.sharedManager;
cameraManager.startMonitor();
this.cameraListComboBox.ItemsSource = cameraManager.cameras;
cameraManager.stopMonitor(); // "must" call this before your Application Exit
```

Property:

Name	Description
sharedManager	Use this static property to obtain all CameraManger instance
cameras	Obtain the supported Camera
NetCameraType	enum NetCameraType{ None, WS01, IZiggi }
Notification	DeviceAttached DeviceDetached DeviceSelected HID_SNAP_SHOT_BTN HID_FOCUS_BTN_PRESS HID_FOCUS_BEGIN HID_FOCUS_FINISH HID_S_AF HID_C_AF CAMERA_EXPOSURE_CHANGE

Function:

Name	Description
startMonitor()	Start to monitor the changing camera status. When changes happen, you will receive

	notifications like "DeviceAttached" or "DeviceDetached".
stopMonitor()	Stop monitoring camera changes.

StreamProxy

Syntax:

Use the static instance [StreamProxy.sharedProxy](#)

Function:

Name	Description
addStreamObserverEX(Camera camera, StreamObserverEX observer)	Add stream observer
removeStreamObserverEX(Camera camera, StreamObserverEX observer)	Remove the stream observer
stopStreamObserver(Camera camera)	Stop the stream observer
startStreamObserver(Camera camera)	Start the stream observer