Options

The following table shows all options available to set and get by `camera.setOptions` and `camera.getOptions`. An option cannot be changed when its corresponding support is empty or contains only one option.

Note: The camera is responsible for updating the currently supported options whenever needed. For example, when isoSupport is empty (auto mode), clients cannot setOptions for iso. This can happen when exposureProgram is set to Shutter Priority. Clients *can not* set support options.

Name	Type	Description
`captureMode`	String	Current capture mode. Default to `image`.
`captureModeSupport`	String Array	List of capture modes currently available. Minimum require level 1 is `["image"]`, and minimum requirement for API le `["image", "interval"]`, where `"interval"` represer of capturing a series of images spaced at a certain interva also `captureInterval` and `captureIntervalSuppor` additional modes (`"video" and "walkaround"`) are s API level 2, so the complete supported set by API level 2 is `"interval", "video", "walkaround"]`, where `"vi` represents the video capture mode and `"walkaround"` re mode of capturing two images in sequence, the first with tl standing anywhere relative to the camera and the second v standing on the opposite side (relative to the first standing camera. This allows the camera to remove the users from by combining the two images. When `"walkaround"` is su camera and set to be the current capture mode, the client s to send two takePicture commands to the camera, where t the first command (when it finishes) indicates the camera take the second image while the second command should final image when it finishes. To add more capture modes not supported yet, please pref specific modes with an underscore (_). **This option was modified in API level 2.**
`captureStatus`	String	Current capture status. Default to `"idle"`. This is useful t the camera's status when it is first connected to an app. If in the middle of shooting a video, it may need to be stoppe commanded to do other things, e.g. another video shootin **This option was added in API level 2.1.**

Name	Type	Description
`captureStatusSupport`	String Array	List of capture statuses currently available; By default, it sh `["idle", "shooting"]` if video shooting is supported. can be provided too, e.g. `"downloading"`. **This option was added in API level 2.1.**
`exposureProgram`	Number	Current exposure program.
`exposureProgramSupport`	Number Array	List of exposure programs currently available; for example, `3, 4]`. Each integer represents a different exposure progr • 0 = Not defined • 1 = Manual • 2 = Normal program • 3 = Aperture priority • 4 = Shutter priority Select the following link to download further details about `ExposureProgram` (http://www.exiv2.org/Exif2-2.PDF). ★ **Note:** Use 9 for "ISO priority" if needed.
`iso`	Number	Current ISO speed setting.
`isoSupport`	Number Array	**API level 1:** List of ISO settings currently available; for exar `200, 400, 800,1600]` or `[]` when it is in `auto` mode. **API level 2:** List of ISO settings currently available; for exar `100, 200, 400, 800, 1600]`, where `0` represents `aut` **This option was modified in API level 2.**
`shutterSpeed`	Number	Current shutter speed setting.
`shutterSpeedSupport`	Number Array	**API level 1:** List of shutter speeds currently available; for ex `[0.067, 0.033, 0.017,0.008]` or `[]` when it is in `au` **API level 2:** List of shutter speeds currently available; for ex `0.067, 0.033, 0.017, 0.008]`, where `0` represents a **This option was modified in API level 2.**
`aperture`	Number	Current aperture setting, in f-stops.

Name	Type	Description
`apertureSupport`	Number Array	**API level 1:** List of aperture settings currently available, exp `f/number`; for example, `[1.4, 2, 2.8, 4, 5.6, 8,` when it is `auto` mode. **API level 2:** List of aperture settings currently available, exp `f/number`; for example, `[0, 1.4, 2, 2.8, 4, 5.6,` where `0` represents `auto` mode.
`whiteBalance`	String	Current white balance setting; for example, `daylight`. Def
`whiteBalanceSupport`	String Array	List of white balance settings currently available, can be a predefined list: `[ "auto", "incandescent", "fluor "daylight", "cloudy-daylight", "shade", "tw` Values for each: • `incandescent`, around 3200K • `fluorescent`, around 4000K • `datalight`, around 5200K • `cloudy-daylight`, around 6000K • `shade`, around 7000K • `twilight`, around 12000K Prefix vendor-specific setting names with an underscore; fo `_vendor-setting`
`exposureCompensation`	Number	Current exposure compensation.
`exposureCompensationSupport`	Number Array	List of of exposure compensations currently available, usu 0.33 or 0.5; for example: `[-1, -0.67, -0.33, 0, 0.3 1]`

Name	Type	Description

`fileFormat`	Object	Current file type and resolution. The format should reflect t value of **`captureMode`**. For example, if **`captureMode`** is `i` appropriate response could be:
		
		`{ "type": "jpeg", "width": 2000, "height": 1000 }`
		
		If **`captureMode`** is `video`, an appropriate response could
		
		`{ "type": "mp4", "width": 1920, "height": 1080, "framerate": 30 }`
		
		This option was modified in API level 2.

Name	Type	Description
`fileFormatSupport`	Object Array	List of the file formats currently available; for example: `[ { "type": "jpeg", "width": 2000, "height": 1000 }, { "type": "jpeg", "width": 200, "height": 100 }, { "type": "mp4", "width": 1920, "height": 1080, "framerate": 24 }, { "type": "mp4", "width": 1280, "height": 720, "framerate": 30 }, ... ]` Select the following link for more information about all typ (http://www.feedforall.com/mime-types.htm). **This option was modified in API level 2.**
`exposureDelay`	Number	Current delay between the `takePicture` command and w exposure is started, in seconds.
`exposureDelaySupport`	Number Array	List of exposure delays currently available, in seconds; for `1, 2, 5, 10, 30, 60]`
`sleepDelay`	Number	Current delay before the camera goes to sleep, in seconds.
`sleepDelaySupport`	Number Array	List of the sleep delays currently available, in seconds; for `60, 120, 300, 600, 1800, 65535]`, where `65535` *d* mode (the camera doesn't sleep until powered off) and mu supported.

Name	Type	Description
`offDelay`	Number	Current delay in seconds before the camera powers off.
`offDelaySupport`	Number Array	List of power off delays currently available, in seconds; for `[1800, 3600, 7200, 65535]`, where `65535` *disables* p mode (the camera doesn't power off until the battery is de powered off manually) and must be supported.
`totalSpace`	Number	Read-only: Number of bytes of total storage.
`remainingSpace`	Number	Read-only: Number of bytes of free storage.
`remainingPictures`	Number	Read-only: Estimated number of remaining pictures based capture setting.
`gpsInfo`	Object	Current GPS information. Set using `setOptions` using ph `{ "lat": 23.532, "lng": -132.35 }` The `lat` and `lng` properties are decimal degrees, with `lat` `[-90, 90]`, and `lng` in the range, `[-180, 180]`. When p phone, please note that each GPS location is valid only unt update from the phone. The phone must determine when t GPS location; for example, right before each `takePictur` `65535` notifies the camera that the current GPS location is the camera should ignore it and use its own GPS if it exists `setOptions({"gpsInfo": {"lat": 65535, "lng"` means the GPS location is invalid.
`dateTimeZone`	String	Current date and time information. Set by `setOptions` us date, time, and time zone. The format is, `YYYY:MM:DD HH` `(-)HH:MM`. Time is in 24-hour format, date and time are se blank space, andtime zone is an offset from UTC time; for `2014:05:18 01:04:29+8:00` is China Time Zone (UTC-
`hdr`	**API level 1:** Boolean **API level 2:** String	**API level 1:** Enable/disable HDR capture mode. Value is `tr` HDR, or `false` to disable it. Default value is `false`. Setting only when `hdrSupport` is also `true`. **API level 2:** Current HDR mode of String type. **This option was modified in API level 2.**

Name	Type	Description
`hdrSupport`	**API level 1:** Boolean **API level 2:** String Array	**API level 1:** A value of `true` signifies that the camera supp `false` setting identifies a camera without HDR. **API level 2:** If you don't support HDR mode, it is `["off"]`; one HDR mode, it is `["off", "hdr"]`, if multiple HDR mo algorithms based) are supported, then it is `["off", "hdr "hdr2", ...]` **This option was modified in API level 2.**

`exposureBracket`	Object	Current exposure bracket setting. Available only when **hdr** `true` **(API level 1)** or **hdrSupport** contains at least one H **level 2)**. If the camera uses manual exposure bracketing, th contains two entries:
		1. **shots**, an integer containing the number of shots to be
		2. **increment**, a number containing an EV increment betv
		For example:
		`{ "shots": 3, "increment": 1.33 }`
		If the camera uses auto exposure bracketing, the object co
		`{ "autoMode": true }`
		API level 1: Default to empty **{}** when **hdrSupport == f** Manufacturers decide default values (for example, auto ex bracketing), when **hdr** is `true`.
		API level 2: Default to empty {} when **hdrSupport** contain Otherwise, manufacturers decide default values (for exam exposure bracketing).
		This option was modified in API level 2.

Name	Type	Description

`exposureBracketSupport`	Object	Exposure bracket settings currently available; for example:
		
		`{`
		`  "autoMode": true,`
		`  "shotsSupport": [1, 3, 5, 7],`
		`  "incrementSupport": [0.33, 0.67, 1, 1.3`
		`}`
		
		API level 1: Default to empty `{}` if `hdrSupport == fals` `hdrSupport == true`, but auto exposure bracketing is n then `autoMode` will be `false`.
		
		API level 2: Default to empty `{}` if `hdrSupport` contains c When `hdrSupport` contains any HDR mode, but auto expo bracketing is not supported, then `autoMode` will be `false`
		
		This option was modified in API level 2.

`gyro`	Boolean	Set to `true` to enable the camera's gyroscope module, or f disable this feature. Default to `true` if the camera support `false`. This setting can be `true` only when `gyroSupport`
`gyroSupport`	Boolean	If the camera has a gyroscope this value should be `true`, o `false`.
`gps`	Boolean	Enables/disables the camera GPS module. Value must be enable, or `false` to disable. Default value is `true` if the ca it, otherwise `false`. Setting is `true` only when `gpsSuppo`
`gpsSupport`	Boolean	This value should be `true` if the camera has its own GPS r otherwise `false`.
`imageStabilization`	String	Current image stabilization operation; for example, `off`.
`imageStabilizationSupport`	String Array	Image stabilization options currently available. The pre-def `["off", "on"]`.If the camera doesn't support image sta return `["off"]`, otherwise return `["off", "on"]`. Prefix specific strings with an underscore (`_`); for example, `[ "o "_horizontal_stabilization", "_vibration_co ]`.

Name	Type	Description
`wifiPassword`	String	At least 8 characters long, containing letters, numbers, sym spaces. It can be changed only when the camera is connec device. Once it is changed, the camera must disconnect sc reconnect using the new `wifiPassword`. The camera must provide a reset mechanism in case the p forgotten; for example, a reset button to restore the factory password.
`previewFormat`	Object	Current live preview resolution; for example: `{ "width": 640, "height": 320, "framerate": 24 }` **This option was added in API level 2.**
`previewFormatSupport`	Object Array	Currently supported live preview formats; for example: `[ { "width": 640, "height": 320, "framerate": 24 }, ... { "width": 1280, "height": 720, "framerate": 24 } ]` **This option was added in API level 2.**
`captureInterval`	Number	Current interval between capturing two consecutive image **This option was added in API level 2.**

Name	Type	Description
`captureIntervalSupport`	Object	Minimum and maximum intervals allowed between capturi consecutive images, in seconds; for example: `{ "minInterval": 10, "maxInterval": 60 }` It might vary depending on `fileFormat`. **This option was added in API level 2.**
`captureNumber`	Number	Number of images to be captured for one interval capture Default to `0`, which means the capture needs to be termina by stopCapture (https://developers.google.com/streetview/open-spherica camera/reference/camera/stopcapture?hl=zh-cn) command; otherwise, the capture stops automatically afte images of the specified number. The capture can also be ir when the camera is out of battery or when it is turned off ir **This option was added in API level 2.**
`captureNumberSupport`	Object	Minimum and maximum number of images that can be ca an interval capture; for example: `{ "minNumber": 2, "maxNumber": 50 }` It might change depending on remaining storage. **This option was added in API level 2.**
`remainingVideoSeconds`	Number	Estimated number of `seconds` for remaining video based capture setting. **This option was added in API level 2.**

Name	Type	Description
`pollingDelay`	Number	Minimum interval in seconds between two consecutive sta requests. Clients should use this field to guide their status behavior; for example, when it is stitching an image, clients poll the camera periodically to see if it finishes stitching. D cameras have different support; for example, some camera status polling every one second while others support longe **This option was added in API level 2.**
`delayProcessing`	Boolean	`True` when processing (e.g. stitching) has a lower priority or in other words, another capture is allowed before the pro previous captured image is finished. This is highly recomm especially for cameras that require long processing time. **This option was added in API level 2.**
`delayProcessingSupport`	Boolean Array	`[true]` means processing (e.g. stitching) has a lower prio capturing, and is always delayed by default. `[false]` means processing happens right after capturing `[true, false]` means there is a choice between these t **This option was added in API level 2.**
`clientVersion`	Number	The API level the client decides to use. Default to 1 if the c supports both API level 1 and 2 so that clients written for A works with the camera without any change; default to 2 if t only supports API level 2, which is not recommended befo migrate to API level 2. If the camera only supports API leve trying to set it to 1 should fail. If **`clientVersion`** is set to successfullly and a deprecated command from API level 1 the request should fail with error code unknownCommand (https://developers.google.com/streetview/open-spherica camera/guides/osc/commands/execute?hl=zh-cn#error) . **This option was added in API level 2.**
`photoStitchingSupport`	String Array	List of stitching options for photos. Return **`[ondevice]`** if always stitched on the camera, **`[none]`** if the camera canr photos, and **`[none,ondevice]`** if stitching is user configu vendor-specific setting names with an underscore, e.g. **`_ve setting`**. **This option was added in API level 2.1.**

Name	Type	Description
`photoStitching`	String	Current stitching option for photos, e.g. `ondevice`. Defaul if it is supported. **This option was added in API level 2.1.**
`videoStitchingSupport`	String Array	List of stitching options for videos. Return `[ondevice]` if always stitched on the camera, `[none]` if the camera canr videos, and `[none,ondevice]` if stitching is user configu vendor-specific setting names with an underscore, e.g. `_ve setting`. **This option was added in API level 2.1.**
`videoStitching`	String	Current stitching option for videos, e.g. `ondevice`. Default if it is supported. **This option was added in API level 2.1.**
`videoGPSSupport`	String Array	List of GPS options during video capture. Return `[contin` camera can continuously capture GPS during video capture the locations in the video. Return `[none]` if it cannot and `[none,continuous]` if video GPS support is user config vendor-specific setting names with an underscore, e.g. `_ve setting`. **This option was added in API level 2.1.**
`videoGPS`	String	Current option for GPS support during video capture, e.g. `c` Default to `continuous` if it is supported. **This option was added in API level 2.1.**
`_vendorSpecific`	[type] (optional)	Vendor-specific additional camera options. Prefix vendor-s with an underscore (`_`).

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