



SDK 属性说明手册

Halcon 平台

文档版本：V1.0

发布时间：2025.04.11

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1 Device 组件

1.1 属性说明

表 1-1 Device 组件下属性

属性	parameters_info.dat 中的描述	Halcon 描述
工作模式	struct trigger mode	TriggerMode
触发后输出的帧数	frame per trigger	FramePerTrigger
触发延迟时间	trigger delay us	TriggerDelay
数据流同步	StreamAsync	StreamAsync
静态 IP 地址	persistent IP	GevPersistentIPAddress
静态 IP 子网掩码	persistent netmask	GevPersistentSubnetMask
静态 IP 网关	persistent gateway	GevPersistentDefaultGateway
ntp 服务器 ip	ntp server ip	NtpServerIp
数据传输延迟时间	packet delay	GevSCPD
数据传输包大小	packet size	GevSCPSPacketSize
状态保持开关	keep alive onoff	DeviceLinkHeartbeatMode
状态保持时间	keep alive timeout	DeviceLinkHeartbeatTimeout
触发 IO 输出控制	trigger Out IO	TriggerOutIO
采集时间	Capture Time	CaptureTimeUs
对时方式	sync type	SyncType
图像同步	cmos sync	CmosSync
相机温度 ID	temperatureID	DeviceTemperatureSelector
相机温度信息	temperatureInfo	DeviceTemperature
参数预设模式	PreSetMode	PresetMode

注意：只有在软/硬触发模式下可以获取到采集时间。

IP\Netmask\Gateway 设置支持整型、十六进制、点分方式

NtpServerIP 设置仅支持整型及十六进制，不支持点分方式。

默认相机支持网络重传的，自动使用重传功能，未开接口对外。

1.2 属性读写说明

表 1-2 Device 组件下的属性读写说明

属性	写操作代码	读操作代码
struct trigger mode	set_framegrabber_param(AcqHandle, 'TriggerMode', 'On')	get_framegrabber_param(AcqHandle, 'TriggerMode', workmode)
persistent IP	set_framegrabber_param(AcqHandle, 'GevPersistentIPAddress', '192.168.2.188')	get_framegrabber_param(AcqHandle, 'GevPersistentIPAddress', IP)
persistent netmask	set_framegrabber_param(AcqHandle, 'GevPersistentSubnetMask', '255.255.255.0')	get_framegrabber_param(AcqHandle, 'GevPersistentSubnetMask', netmask)
persistent gateway	set_framegrabber_param(AcqHandle, 'GevPersistentDefaultGateway', '192.168.2.1')	get_framegrabber_param(AcqHandle, 'GevPersistentDefaultGateway', gateway)
packet delay	set_framegrabber_param(AcqHandle, 'GevSCPD', 20000)	get_framegrabber_param(AcqHandle, 'GevSCPD', packetDelay)
packet size	set_framegrabber_param(AcqHandle, 'GevSCSPacketSize', 1000)	get_framegrabber_param(AcqHandle, 'GevSCSPacketSize', packetSize)
keep alive onoff	set_framegrabber_param(AcqHandle, 'DeviceLinkHeartbeatMode', 'Off')	get_framegrabber_param(AcqHandle, 'DeviceLinkHeartbeatMode', devicelink)
keep alive timeout	set_framegrabber_param(AcqHandle, 'DeviceLinkHeartbeatTimeout', 15000)	get_framegrabber_param(AcqHandle, 'DeviceLinkHeartbeatTimeout', timeout)
trigger delay (us)	set_framegrabber_param(AcqHandle, 'TriggerDelay', 130000)	get_framegrabber_param(AcqHandle, 'TriggerDelay', TriggerDelay)
Frame per trigger	set_framegrabber_param(AcqHandle, 'FramePerTrigger', 10)	get_framegrabber_param(AcqHandle, 'FramePerTrigger', TriggerFps)
trigger Out IO	set_framegrabber_param(AcqHandle, 'TriggerOutIO', 0)	get_framegrabber_param(AcqHandle, 'TriggerOutIO', TriggerOutIO)

属性	写操作代码	读操作代码
CaptureTimeUs	N/A	get_framegrabber_param (AcqHandle, 'CaptureTimeUs', CaptureTimeUs)
sync type	set_framegrabber_param (AcqHandle, 'SyncType', 'SyncType_host')	get_framegrabber_param (AcqHandle, 'SyncType', SyncType)
NtpServerIp	set_framegrabber_param(AcqHandle, 'NtpServerIp', 3232236033)	get_framegrabber_param(AcqHandle, 'NtpServerIp', ntpServer)
SyncReady	N/A	get_framegrabber_param (AcqHandle, 'SyncReady', SyncReady)
StreamAsync	set_framegrabber_param (AcqHandle, 'StreamAsync', 'StreamAsync_depth')	get_framegrabber_param (AcqHandle, 'StreamAsync', StreamAsync)
cmos sync	set_framegrabber_param (AcqHandle, 'CmosSync', 1)	get_framegrabber_param (AcqHandle, 'CmosSync', CmosSync)
PresetMode	set_framegrabber_param(AcqHandle, 'PresetMode_Val', 1)	get_framegrabber_param(AcqHandle, 'PresetMode_Val', value)
	set_framegrabber_param(AcqHandle, 'PresetMode', 'Fast')	get_framegrabber_param(AcqHandle, 'PresetMode', value1)
Temperature Info	N/A	set_framegrabber_param(AcqHandle, 'DeviceTemperatureSelector_Val', 0) get_framegrabber_param(AcqHandle, 'DeviceTemperatureSelector_Val', value) get_framegrabber_param(AcqHandle, 'DeviceTemperatureSelector', value0) get_framegrabber_param(AcqHandle, 'DeviceTemperature', temp0) 0, 1, 2, 3, 4 分别可以读取到 leftIR、RightIR、Color、CPU 和主板的温度

2 Depth 组件

2.1 属性说明

表 2-1 Depth 组件下属性

属性	parameters_info.dat 中的描述	Halcon 描述
像素值的单位	scale unit	ScaleUnit
视差搜索范围	disparity num	SgbmDisparityNum
开始搜索的视差值	disparity offset	SgbmDisparityOffset
用于深度计算的 IR 图数量	image number	SgbmImageNum
视差匹配窗口的宽	match window width	SgbmMatchWinWidth
视差匹配窗口的高	matchwindow height	SgbmMatchWinHeight
相邻像素 (+/-1) 约束惩罚参数 P1	semi global param p1	SgbmSemiParamP1
相邻像素 (+/-1) 约束惩罚参数 P1_scale	semi global param p1 scale	SgbmSemiParamP1Scale
相邻像素 (+/-1) 约束惩罚参数 P2	semi global param p2	SgbmSemiParamP2
搜索滤波开关	enable half window size	SgbmHfilterHalfWin
最优匹配点与次优匹配点的百分比	uniqueness factor param	SgbmUniqueFactor
最优匹配点与次优匹配点差值的绝对值	uniqueness min absolute diff	SgbmUniqueAbsdiff
左右一致性检查开关	enable LRC	SgbmLrc
左右一致性检查阈值	max LRC diff	SgbmLrcDiff
中值滤波开关	enable median filter	SgbmMedfilter
过滤噪点值	median filter thresh	SgbmMedfilterThresh
深度质量	depth quality	DepthQuality
抗阳光指数	tof anti-sunlight index	TofAntiSunlightIndex

属性	parameters_info.dat 中的描述	Halcon 描述
抗多机干扰	tof anti-interference	TofAntiInterference
激光调制光强	tof modulation threshold	TofModulationThreshold
抖动过滤	tof jitter threshold	TofJitterThreshold
飞点滤波	filter threshold	FilterThreshold
调制频道	tof channel	TofChannel
高动态范围比	HDR ratio	TofHdrRatio
最大斑点噪声尺寸	MaxSpeckleSize	MaxSpeckleSize
最大差异	MaxSpeckleDiff	MaxSpeckleDiff

注意：

Depth 格式支持读取不支持设置，当前仅支持 Coord3D_ABC32f（点云）。

Depth 图像大小通过 BinningHorizontal 和 BinningVertical 参数进行设置，BinningVertical 只设置这个即可生效。

Depth 的分辨率只能设置最大分辨率和最大分辨率的 1/2、1/3、1/4。

2.2 属性读写说明

表 2-2 Depth 组件下的属性读写说明

属性	写操作代码	读操作代码
打开/关闭 Depth 数据流	<pre>set_framegrabber_param(AcqHandle, 'SourceSelector', 'Source_Depth') get_framegrabber_param(AcqHandle, 'ComponentEnable', ComponentEnable) set_framegrabber_param(AcqHandle, 'ComponentEnable', 1) get_framegrabber_param(AcqHandle, 'ComponentEnable', depth)</pre>	
PixelFormat	N/A	<pre>get_framegrabber_param(AcqHandle, 'PixelFormat', format)</pre>
Width/Height	N/A	<pre>get_framegrabber_param(AcqHandle, 'Width', width) get_framegrabber_param(AcqHandle, 'Height', height)</pre>

属性	写操作代码	读操作代码
BinningHorizontal/BinningVertical	<pre>set_framegrabber_param (AcqHandle,'BinningHorizontal',2) set_framegrabber_param (AcqHandle,'BinningVertical',2)</pre>	<pre>get_framegrabber_param(AcqHandle,'Binning Horizontal',H) get_framegrabber_param(AcqHandle,' BinningVertical ',V)</pre>
scale unit	<pre>set_framegrabber_param (AcqHandle, 'ScaleUnit', 0.25)</pre>	<pre>get_framegrabber_param (AcqHandle, 'ScaleUnit', ScaleUnit)</pre>
image number	<pre>set_framegrabber_param (AcqHandle, 'SgbmImageNum', 10)</pre>	<pre>get_framegrabber_param (AcqHandle, 'SgbmImageNum', SgbmImageNum)</pre>
disparity num	<pre>set_framegrabber_param (AcqHandle, 'SgbmDisparityNum', 320)</pre>	<pre>get_framegrabber_param (AcqHandle, 'SgbmDisparityNum', SgbmDisparityNum)</pre>
disparity offset	<pre>set_framegrabber_param (AcqHandle, 'SgbmDisparityOffset', -32)</pre>	<pre>get_framegrabber_param (AcqHandle, 'SgbmDisparityOffset', SgbmDisparityOffset)</pre>
match window height	<pre>set_framegrabber_param (AcqHandle, 'SgbmMatchWinHeight', 3)</pre>	<pre>get_framegrabber_param (AcqHandle, 'SgbmMatchWinHeight', SgbmMatchWinHeight)</pre>
match window width	<pre>set_framegrabber_param (AcqHandle, 'SgbmMatchWinWidth',3)</pre>	<pre>get_framegrabber_param (AcqHandle, 'SgbmMatchWinWidth', SgbmMatchWinWidth)</pre>
semi global param p1	<pre>set_framegrabber_param (AcqHandle, 'SgbmSemiParamP1', 100)</pre>	<pre>get_framegrabber_param (AcqHandle, 'SgbmSemiParamP1', SgbmSemiParamP1)</pre>
semi global param p1 scale	<pre>set_framegrabber_param (AcqHandle, 'SgbmSemiParamP1Scale',10)</pre>	<pre>get_framegrabber_param (AcqHandle, 'SgbmSemiParamP1Scale', SgbmSemiParamP1Scale)</pre>
semi global param p2	<pre>set_framegrabber_param (AcqHandle, 'SgbmSemiParamP2', 100)</pre>	<pre>get_framegrabber_param (AcqHandle, 'SgbmSemiParamP2', SgbmSemiParamP2)</pre>
enable half window size	<pre>set_framegrabber_param (AcqHandle, 'SgbmHfilterHalfWin', 1)</pre>	<pre>get_framegrabber_param (AcqHandle, 'SgbmHfilterHalfWin', SgbmHfilterHalfWin)</pre>

属性	写操作代码	读操作代码
uniqueness factor param	set_framegrabber_param (AcqHandle, 'SgbmUniqueFactor', 130)	get_framegrabber_param (AcqHandle, 'SgbmUniqueFactor', SgbmUniqueFactor)
uniqueness min absolute diff	set_framegrabber_param (AcqHandle, 'SgbmUniqueAbsdiff', 1000)	get_framegrabber_param (AcqHandle, 'SgbmUniqueAbsdiff', SgbmUniqueAbsdiff)
enable LRC	set_framegrabber_param (AcqHandle, 'SgbmLrc', 1)	get_framegrabber_param (AcqHandle, 'SgbmLrc', SgbmLrc)
max LRC diff	set_framegrabber_param (AcqHandle, 'SgbmLrcDiff', 2500)	get_framegrabber_param (AcqHandle, 'SgbmLrcDiff', SgbmLrcDiff)
enable median filter	set_framegrabber_param (AcqHandle, 'SgbmMedfilter',1)	get_framegrabber_param (AcqHandle, 'SgbmMedfilter', SgbmMedfilter)
median filter thresh	set_framegrabber_param (AcqHandle, 'SgbmMedfilterThresh', 250)	get_framegrabber_param (AcqHandle, 'SgbmMedfilterThresh', SgbmMedfilterThresh)
depth quality	set_framegrabber_param(AcqHandle, 'DepthQuality', 'DepthQuality_High')	get_framegrabber_param(AcqHandle, 'DepthQuality', DepthQuality)
tof anti-sunlight index	set_framegrabber_param(AcqHandle, 'TofAntiSunlightIndex', 2)	get_framegrabber_param(AcqHandle, 'TofAntiSunlightIndex', TofAntiSunlightIndex)
MaxSpeckleSize	set_framegrabber_param(AcqHandle,'MaxSpeckleSize',200)	get_framegrabber_param(AcqHandle,'MaxSpeckleSize',MaxSpeckleSize)
MaxSpeckleDiff	set_framegrabber_param(AcqHandle,'MaxSpeckleDiff',500)	get_framegrabber_param(AcqHandle,'MaxSpeckleDiff',MaxSpeckleDiff)
tof modulation threshold	set_framegrabber_param(AcqHandle, 'TofModulationThreshold', 80)	get_framegrabber_param(AcqHandle, 'TofModulationThreshold', TofModulationThreshold)
tof jitter threshold	set_framegrabber_param(AcqHandle, 'TofJitterThreshold', 10)	get_framegrabber_param(AcqHandle, 'TofJitterThreshold', TofJitterThreshold)
filter threshold	set_framegrabber_param(AcqHandle, 'FilterThreshold', 190)	get_framegrabber_param(AcqHandle, 'FilterThreshold', FilterThreshold)

属性	写操作代码	读操作代码
tof channel	set_framegrabber_param(AcqHandle, 'TofChannel', 4)	get_framegrabber_param(AcqHandle, 'TofChannel', TofChannel)
HDR ratio	set_framegrabber_param(AcqHandle, 'TofHdrRatio', 80)	get_framegrabber_param(AcqHandle, 'TofHdrRatio', TofHdrRatio)

3 Color 组件

3.1 属性说明

表 3-1 Color 组件下属性测试

属性	parameters_info.dat 中的描述	Halcon 描述
自动增益	auto gain ctrl	GainAuto
自动曝光时间	auto exposure(RgbAutoExpo)	ExposureAuto
曝光时间	exposure time	ExposureTime
模拟增益	analog gain	AnalogAll
曝光目标	AE_TARGET_Y	AE_TARGET_Y
自动白平衡	auto balance(RgbAWB)	BalanceWhiteAuto
局部曝光	AEC ROI	AEC_ROI_X、AEC_ROI_Y、 AEC_ROI_W、AEC_ROI_H
R 通道增益	r gain	DigitalRed
G 通道增益	g gain	DigitalGreen
B 通道增益	b gain	DigitalBlue
RGB 泛光开关	flash light rgb enable	FlashLightRgbEnable
RGB 泛光亮度	flash light rgb intensity	FlashLightRgbIntensity

注意：

Gain 类型属性包含了数字增益（Gain、R-gain、G-gain、B-gain）和模拟增益（Analog-gain）。

设置方法：选择 Gain 类型：GainSelector，读写 Gain 值（浮点数）：Gain。

Color 的图像格式不可设置，仅支持读取，且当前仅有 RGB8 格式。

Color 图像大小通过 BinningHorizontal 和 BinningVertical 参数进行设置，BinningVertical 只设置这个即可生效。

Color 的分辨率只能最大分辨率和最大分辨率的 1/2、1/3、1/4。

3.2 属性读写说明

表 3-2 Color 组件下的属性读写说明

属性	写操作代码	读操作代码
打开/关闭 Color 数据流	<pre>set_framegrabber_param(AcqHandle, 'SourceSelector', 'Source_Color') get_framegrabber_param(AcqHandle, 'ComponentEnable', ComponentEnable) set_framegrabber_param(AcqHandle, 'ComponentEnable', 1) get_framegrabber_param(AcqHandle, 'ComponentEnable', ComponentEnable)</pre>	
PixelFormat	N/A	<pre>get_framegrabber_param(AcqHandle, 'PixelFormat', format)</pre>
Width/Height	N/A	<pre>get_framegrabber_param(AcqHandle, 'Width', width) get_framegrabber_param(AcqHandle, 'Height', height)</pre>
BinningHorizontal/BinningVertical	<pre>set_framegrabber_param(AcqHandle, 'BinningHorizontal', 2) set_framegrabber_param(AcqHandle, 'BinningVertical', 2)</pre>	<pre>get_framegrabber_param(AcqHandle, 'BinningHorizontal', H) get_framegrabber_param(AcqHandle, 'BinningVertical', V)</pre>
exposure time	<pre>set_framegrabber_param(AcqHandle, 'ExposureTime', 10000)</pre>	<pre>get_framegrabber_param(AcqHandle, 'ExposureTime', ExposureTime)</pre>
gain	<pre>get_framegrabber_param(AcqHandle, 'GainSelector_values', GainSelector) set_framegrabber_param(AcqHandle, 'GainSelector', 'DigitalRed') set_framegrabber_param(AcqHandle, 'Gain', 20)</pre>	<pre>get_framegrabber_param(AcqHandle, 'Gain_range', gain)</pre>

属性	写操作代码	读操作代码
g gain	<pre>get_framegrabber_param(AcqHandle,'GainSelector_values',GainSelector) set_framegrabber_param(AcqHandle,'GainSelector','DigitalGreen') set_framegrabber_param(AcqHandle,'Gain',20)</pre>	<pre>get_framegrabber_param(AcqHandle,'Gain_range',gain)</pre>
b gain	<pre>get_framegrabber_param(AcqHandle,'GainSelector_values',GainSelector) set_framegrabber_param(AcqHandle,'GainSelector','DigitalBlue') set_framegrabber_param(AcqHandle,'Gain',20)</pre>	<pre>get_framegrabber_param(AcqHandle,'Gain_range',gain)</pre>
analog gain	<pre>get_framegrabber_param(AcqHandle,'GainSelector_values',GainSelector) set_framegrabber_param(AcqHandle,'GainSelector','AnalogAll') set_framegrabber_param(AcqHandle,'Gain',20)</pre>	<pre>get_framegrabber_param(AcqHandle,'Gain_range',gain) get_framegrabber_param(AcqHandle,'Gain_range',gain)</pre>
auto gain ctrl	<pre>set_framegrabber_param (AcqHandle,'GainAuto','Off')</pre>	<pre>get_framegrabber_param (AcqHandle,'GainAuto', GainAuto)</pre>
auto exposure(RgbAutoExpo)	<pre>set_framegrabber_param (AcqHandle,'ExposureAuto','Continuous')</pre>	<pre>get_framegrabber_param (AcqHandle,'ExposureAuto', ExposureAuto)</pre>
auto balance(RgbAWB)	<pre>set_framegrabber_param (AcqHandle,'BalanceWhiteAuto','Continuous')</pre>	<pre>get_framegrabber_param (AcqHandle,'BalanceWhiteAuto', BalanceWhiteAuto)</pre>

属性	写操作代码	读操作代码
struct aec roi	<pre>set_framegrabber_param (AcqHandle, 'AEC_ROI_X',987) set_framegrabber_param (AcqHandle, 'AEC_ROI_Y',769) set_framegrabber_param (AcqHandle, 'AEC_ROI_W',132) set_framegrabber_param (AcqHandle, 'AEC_ROI_H',113)</pre>	<pre>get_framegrabber_param (AcqHandle, 'AEC_ROI_X',AEC_ROI_X) get_framegrabber_param (AcqHandle, 'AEC_ROI_Y',AEC_ROI_Y) get_framegrabber_param (AcqHandle, 'AEC_ROI_W',AEC_ROI_W) get_framegrabber_param (AcqHandle, 'AEC_ROI_H',AEC_ROI_H)</pre>
Target y (0-4000)	<pre>set_framegrabber_param (AcqHandle, ' AE_TARGET_Y',2000)</pre>	<pre>get_framegrabber_param (AcqHandle, ' AE_TARGET_Y', AE_TARGET_Y)</pre>
Flashlight-rgb-enable	<pre>set_framegrabber_param(AcqHandle,'FlashLightEnable',1)</pre>	<pre>get_framegrabber_param(AcqHandle,'FlashLightRgbEnable',FlashLightRgbEnable)</pre>
Flashlight-rgb-Intensity	<pre>set_framegrabber_param(AcqHandle,'FlashLightRgbIntensity',100)</pre>	<pre>get_framegrabber_param(AcqHandle,'FlashLightRgbIntensity',FlashLightRgbIntensity)</pre>

4 IR 及光源组件

4.1 属性说明

表 4-1 IR 及光源组件属性

属性	parameters_info.dat 中的描述	Halcon 描述
畸变矫正	Undistor	Undistort
曝光时间	exposure time	ExposureTime
数字增益	gain	AnalogAll
模拟增益	analog gain	DigitalAll
高动态范围开关	hdr	HdrEnable
高动态参数	Hdr parameter	HdrEnable_X
激光强度	Laser-power	LaserPower
激光器自动调整功能开关	auto ctrl	LaserAutoCtrl
IR 泛光使能	flash light ir enable	FlashLightIrEnable
IR 泛光灯亮度	flash light ir intensity	FlashLightIrIntensity

注意:

IR 图像大小通过 BinningHorizontal 和 BinningVertical 参数进行设置。

IR 图像格式支持: Mono8、Mono16。

曝光时间支持浮点类型设置, 单位 us。

激光器放在这里进行验证原因是当 auto-ctrl=0 时, 只出左右 IR, 激光亮度受 laser-power 控制。当 auto-ctrl=1 时, 只出左右 IR, 激光器不亮。

4.2 属性读写说明（IR 组件）

表 4-2 IR 组件下的属性读写说明

属性	写操作代码	读操作代码
打开/关闭左 IR	<pre>set_framegrabber_param(AcqHandle, 'SourceSelector', 'Source_LeftIR') get_framegrabber_param(AcqHandle, 'ComponentEnable', ComponentEnable) set_framegrabber_param(AcqHandle, 'ComponentEnable', 1) get_framegrabber_param(AcqHandle, 'ComponentEnable', ComponentEnable)</pre>	
打开/关闭右 IR	<pre>set_framegrabber_param(AcqHandle, 'SourceSelector', 'Source_RightIR') get_framegrabber_param(AcqHandle, 'ComponentEnable', ComponentEnable) set_framegrabber_param(AcqHandle, 'ComponentEnable', 1) get_framegrabber_param(AcqHandle, 'ComponentEnable', ComponentEnable)</pre>	
PixelFormat	N/A	<pre>get_framegrabber_param(AcqHandle, 'PixelFormat', format)</pre>
Width/Height	N/A	<pre>get_framegrabber_param(AcqHandle, 'Width', width) get_framegrabber_param(AcqHandle, 'Height', height)</pre>
BinningHorizontal/BinningVertical	<pre>set_framegrabber_param(AcqHandle, 'BinningHorizontal', 2) set_framegrabber_param(AcqHandle, 'BinningVertical', 2)</pre>	<pre>get_framegrabber_param(AcqHandle, 'BinningHorizontal', H) get_framegrabber_param(AcqHandle, 'BinningVertical', V)</pre>
Undistort	<pre>set_framegrabber_param(AcqHandle, 'Undistort', 0)</pre>	<pre>get_framegrabber_param(AcqHandle, 'Undistort', Undistort)</pre>
exposure time	<pre>set_framegrabber_param(AcqHandle, 'ExposureTime', 10000)</pre>	<pre>get_framegrabber_param(AcqHandle, 'ExposureTime', ExposureTime)</pre>

属性	写操作代码	读操作代码
gain	<pre>get_framegrabber_param(AcqHandle,'GainSelector_values',GainSelector) set_framegrabber_param(AcqHandle,'GainSelector','DigitalAll') set_framegrabber_param(AcqHandle,'Gain',255)</pre>	<pre>get_framegrabber_param(AcqHandle,'Gain_range',gain) * 返回值是: [min, max, step, current].</pre>
analog gain	<pre>get_framegrabber_param(AcqHandle,'GainSelector_values',GainSelector) set_framegrabber_param(AcqHandle,'GainSelector','AnalogAll') set_framegrabber_param(AcqHandle,'Gain',3)</pre>	<pre>get_framegrabber_param(AcqHandle,'Gain_range',gain) * 返回值是: [min, max, step, current].</pre>
hdr	<pre>set_framegrabber_param(AcqHandle,'HdrEnable', 1)</pre>	<pre>get_framegrabber_param(AcqHandle,'HdrEnable', HdrEnable)</pre>
hdr parameter	<pre>set_framegrabber_param(AcqHandle,'HDR_PARAM_x',x)</pre>	<pre>get_framegrabber_param(AcqHandle,'HDR_PARAM_x', HDR_PARAM_x)</pre>

4.3 属性读写说明（光源组件）

表 4-3 光源组件下的属性读写说明

属性	写操作代码	读操作代码
LaserAutoCtrl	<pre>set_framegrabber_param (AcqHandle,'LaserAutoCtrl',0)</pre>	<pre>get_framegrabber_param (AcqHandle,'LaserAutoCtrl', LaserAutoCtrl)</pre>
LaserPower	<pre>set_framegrabber_param (AcqHandle,'LaserPower',10)</pre>	<pre>get_framegrabber_param (AcqHandle, 'LaserPower', LaserPower)</pre>
Flashlight-ir-enable	<pre>set_framegrabber_param(AcqHandle,'FlashLightIrEnable',0)</pre>	<pre>get_framegrabber_param(AcqHandle,'FlashLightIrEnable',FlashLightEnable)</pre>
Flashlight-ir-Intensity	<pre>set_framegrabber_param(AcqHandle,'FlashLightIrIntensity',63)</pre>	<pre>get_framegrabber_param(AcqHandle,'FlashLightIrIntensity',FlashLightIntensity)</pre>

Flashlight-rgb-enable	set_framegrabber_param(AcqHandle,'FlashLightEnable',0)	get_framegrabber_param(AcqHandle,'FlashLightRgbEnable',FlashLightEnable)
Flashlight-rgb-Intensity	set_framegrabber_param(AcqHandle,'FlashLightRgbIntensity',100)	get_framegrabber_param(AcqHandle,'FlashLightRgbIntensity',FlashLightIntensity)

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