

设置步骤

1、打开 Sapera CamExpert 软件,将相机属性 Image Format Controls 栏中的 Multi ROI Mode 设置为 Active 状态:

Category	Parameter	Value	
amera Information	Data Stream Selector	Stream1	
∃ Sensor Control	Data Stream Type	Image	
Auto-Brightness	Pixel Format	Monochrome 8-Bit	
O Controls	Pixel Size	8	
o controis	Horizontal Offset	0	
ounter And Timer Control	Vertical Offset	0	
dvanced Processing	Width	728	
Cycling Preset	Height	544	
mage Format Controls	Horizontal Flip	False	
🗉 Ietadata Controls	Vertical Flip	False	
Chunk Parser	Multiple ROI Mode	Off	•
conjustion and Transfer	ROI Count Horizontal	Off	
ation Control	ROI Count Vertical	Active	
Action Control	ROI Count	Not Enabled	
Event Control	ROI Selector	Not Enabled	
GigE Vision Transport Layer	ROI Offset X	Not Enabled	
File Access Control	ROI Offset Y	Not Enabled	
GigE Vision Host Controls	ROI Width	Not Enabled	
5	ROI Height	Not Enabled	
	Binning Selector	In Digital Domain	
	Binning Mode	Sum	
	Binning Horizontal	1	
	Dinning Vortical	1	
	binning vertical	1	

2、根据需求设置水平分割数 ROI Count Horizontal (此处以 2 为例)和垂直分割数 ROI Count Vertical (此处以 2 为例),即设置 2*2 = 4 个区域(可以设置的最大区域个数视相机型号而定)。

Parameter	Value	^
Data Stream Selector	Stream1	
Data Stream Type	Image	
Pixel Format	Monochrome 8-Bit	
Pixel Size	8	
Horizontal Offset	0	
Vertical Offset	0	
Width	528	
Height	272	
Horizontal Flip	False	
Vertical Flip	False	
Multiple ROI Mode	Active	
ROI Count Horizontal	2	
ROI Count Vertical	2	
ROI Count	4	
ROI Selector	ROI (x1, y1)	
ROI Offset X	0	
ROI Offset Y	0	
ROI Width	264	
ROI Height	136	
Binning Selector	In Digital Domain	
Binning Mode	Sum	
Binning Horizontal	1	
Binning Vertical	1	
Test Image Selector	Off	
Loss		v

3、设置单个区域的尺寸。

根据具体需求设置,手动设置每个区域的横纵坐标值,以矩形区域的左上角坐标为原点。 不同列可以设置不同的宽度。如第一列 ROI Width = 416,第二列 ROI Width = 264。 不同行可以设置不同的高度。如第一行 ROI Height = 256,第二行 ROI Height = 272。 (此处使用的是 Genie Nano M700 相机,相机的分辨率为 728*544)。如下图组:

Parameter	Value	/
Data Stream Selector	Stream1	
Data Stream Type	Image	
Pixel Format	Monochrome 8-Bit	
Pixel Size	8	
Horizontal Offset	0	
Vertical Offset	0	
Width	680	
Height	528	
Horizontal Flip	False	
Vertical Flip	False	
Multiple ROI Mode	Active	
ROI Count Horizontal	2	
ROI Count Vertical	2	
ROI Count	4	
ROI Selector	ROI (x1, v1)	-
ROI Offset X	0	
ROI Offset Y	0	
ROI Width	416	
ROI Height	256	
Binning Selector	In Digital Domain	
Binning Mode	Sum	
Binning Horizontal	1	
Binning Vertical	1	
Test Image Selector	Off	

	Parameter	Value	\sim
	Data Stream Selector	Stream1	
	Data Stream Type	Image	
	Pixel Format	Monochrome 8-Bit	
	Pixel Size	8	
	Horizontal Offset	0	
	Vertical Offset	0	
	Width	680	
	Height	528	
	Horizontal Flip	False	
	Vertical Flip	False	
	Multiple ROI Mode	Active	
	ROI Count Horizontal	2	
	ROI Count Vertical	2	
	ROI Count	4	
	ROI Selector	ROI (x2, y1)	
	ROI Offset X	464	
	ROI Offset Y	0	
	ROI Width	264	
	ROI Height	256	
	Binning Selector	In Digital Domain	
	Binning Mode	Sum	
	Binning Horizontal	1	
	Binning Vertical	1	
	Test Image Selector	Off	
	e e Loss		*

(x1, y1)

(x2, y1)

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Parameter	Value	^	Parameter	Value	^
Data Stream Selector	Stream1		Data Stream Selector	Stream1	
Data Stream Type	Image		Data Stream Type	Image	
Pixel Format	Monochrome 8-Bit		Pixel Format	Monochrome 8-Bit	
Pixel Size	8		Pixel Size	8	
Horizontal Offset	0		Horizontal Offset	0	
Vertical Offset	0		Vertical Offset	0	
Width	680		Width	680	
Height	528		Height	528	
Horizontal Flip	False		Horizontal Flip	False	
Vertical Flip	False		Vertical Flip	False	
Multiple ROI Mode	Active		Multiple ROI Mode	Active	
ROI Count Horizontal	2		ROI Count Horizontal	2	
ROI Count Vertical	2		ROI Count Vertical	2	
ROI Count	4		ROI Count	4	
ROI Selector	ROI (x1, v2)	-	ROI Selector	ROI (x2, y2)	
ROI Offset X	0	i	ROI Offset X	464	
ROI Offset Y	272		ROI Offset Y	272	
ROI Width	416		ROI Width	264	
ROI Height	272		ROI Height	272	
Binning Selector	In Digital Domain		Binning Selector	In Digital Domain	
Binning Mode	Sum		Binning Mode	Sum	
Binning Horizontal	1		Binning Horizontal	1	
Binning Vertical	1		Binning Vertical	1	
Test Image Selector	Off		Test Image Selector	Off	
		× ·	er Loss		~
	(x1, v2)		1985	(x2, v2)	

4、按照上述步骤设置了 Multi-ROI 后,采集到的图像组成原理图如下图所示:

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实际成像图为:



实例

下图为 3*2 = 6 的 ROI 区域示例:



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