DCAM-API

Property List

For

C11254-10B

August 2013

HAMAMATSU

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INTRODUCTION

This manual describes about properties which camera supports. To refer the detail explanation of each property, please see "Property Reference".



PROPERTY LIST AND VALUES

C11254-10B

C11254-10B Sensor mode	
DCAM_IDPROP_SENSORMODE	R/O MODE
DCAMPROP_SENSORMODE_AREA	
C11254-10B Readout Speed	
DCAM_IDPROP_READOUTSPEED	R/O LONG
1	
·	
C11254-10B Trigger	
DCAM_IDPROP_TRIGGERSOURCE	R/W MODE
DCAMPROP_TRIGGERSOURCEINTERNAL (DEFAULT)	
DCAMPROP_TRIGGERSOURCEEXTERNAL	
DCAMPROP_TRIGGERSOURCESOFTWARE	
DCAM_IDPROP_TRIGGER_MODE	R/W MODE
DCAMPROP_TRIGGER_MODENORMAL(DEFAULT)	
DCAMPROP_TRIGGER_MODESTART	
DCAM_IDPROP_TRIGGERACTIVE	R/W MODE
DCAMPROP_TRIGGERACTIVEEDGE (DEFAULT)	
DCAMPROP_TRIGGERACTIVELEVEL	
DCAMPROP_TRIGGERACTIVESYNCREADOUT	
DCAM_IDPROP_TRIGGERPOLARITY	R/W MODE
DCAMPROP_TRIGGERPOLARITYNEGATIVE (DEFAULT)	
DCAMPROP_TRIGGERPOLARITYPOSITIVE	
DCAM_IDPROP_TRIGGERTIMES	R/W LONG
1 to 4095, default 1	
A // A P A P A P A P A P A P A P A P A P	
C11254-10B Sensor cooler	DAY LAODE
DCAM_IDPROP_SENSORCOOLERFAN	R/W MODE
DCAMPROP_MODE_OFF	
DCAMPROP_MODEON (DEFAULT)	
044054 40D Digging and DOI	
C11254-10B Binning and ROI	DAM MODE
DCAM_IDPROP_BINNING DCAMPROP_BINNING1 (DEFAULT)	R/W MODE
DCAMPROP_BINNING1 (DEFAULT) DCAMPROP_BINNING2	
DCAMPROP_BINNING2 DCAMPROP_BINNING4	
DCAMPROP_BINNING_4 DCAMPROP BINNING 8	
DCAM_IDPROP_SUBARRAYHPOS	R/W LONG
0 to 1248, default 0	K/W LONG
DCAM_IDPROP_SUBARRAYHSIZE	R/W LONG
32 to 1280, default 1280	IVV LONG
DCAM_IDPROP_SUBARRAYVPOS	R/W LONG
0 to 952, default 0	1000 LONG
DCAM_IDPROP_SUBARRAYVSIZE	R/W LONG
8 to 960, default 960	1000
DCAM_IDPROP_SUBARRAYMODE	R/W MODE
DCAMPROP_MODE_OFF(DEFAULT)	IVVV IVIODE
DCAMPROP_MODEON	
DOTAIN NOT _INDDLOIX	

044054400 5						
C11254-10B Feature	DAM	MODE				
DCAMPROP_LIGHTMODE_LOWLIGHT (DEFAULT)						
DCAMPROP_LIGHTMODEHIGHLIGHT DCAM_IDPROP_HIGHDYNAMICRANGE_MODE	R/W	MODE				
	R/VV	MODE				
DCAMPROP_MODEOFF (DEFAULT) DCAMPROP_MODEON						
DCAM_IDPROP_EXPOSURETIME	R/W	REAL, Second				
50 usec to 60 sec, default 0.088704 sec	IN/VV	REAL, Second				
DCAM_IDPROP_CONTRASTGAIN	R/W	LONG				
0 to 255, default 0	17/77	LONG				
DCAM_IDPROP_CONTRASTOFFSET	R/W	LONG				
0 to 255, default 0	17/77	LONG				
0 to 200, derault 0						
C11254-10B Capture mode						
DCAM_IDPROP_CAPTUREMODE	R/W	MODE				
DCAMPROP_CAPTUREMODENORMAL (DEFAULT)	1000	IMODE				
DCAMPROP_CAPTUREMODE_BACKFOCUSCALIB						
DOMESTICAL TOTAL MODEBROKE COCCONCID	I					
C11254-10B Output Trigger						
DCAM_IDPROP_OUTPUTTRIGGER_POLARITY	R/W	MODE				
DCAMPROP_OUTPUTTRIGGER_POLARITY_NEGATIVE	1.0.11	1				
(DEFAULT)						
DCAMPROP_OUTPUTTRIGGER_POLARITYPOSITIVE						
DCAM_IDPROP_OUTPUTTRIGGER_DELAY	R/W	REAL, Second				
0 sec to 60 sec, default 0 sec		,				
DCAM_IDPROP_OUTPUTTRIGGER_PERIOD	R/W	REAL, Second				
50 usec to 60 sec, default 100 usec	•	· ·				
	•					
C11254-10B Back Focus Position						
DCAM_IDPROP_BACKFOCUSPOS_TARGET	R/W	REAL, micro meter				
0 um to 12500 um						
DCAM_IDPROP_BACKFOCUSPOS_CURRENT	R/O	REAL, micro meter				
0 um to 12500 um						
DCAM_IDPROP_BACKFOCUSPOS_LOADFROMMEMORY	R/W	LONG				
0 to 9, default 0						
DCAM_IDPROP_BACKFOCUSPOS_STORETOMEMORY	R/W	LONG				
0 to 9, default 0						
C11254-10B Synchronous timing						
DCAM_IDPROP_TIMING_READOUTTIME	R/O	REAL, Second				
return seconds how long takes to reading out a frame.						
DCAM_IDPROP_TIMING_CYCLICTRIGGERPERIOD	R/O	REAL, Second				
return seconds which period cyclic trigger happens in.						
DCAM_IDPROP_TIMING_MINTRIGGERBLANKING	R/O	REAL, Second				
return seconds required minimum trigger blanking.						
DCAM_IDPROP_TIMING_MINTRIGGERINTERVAL	R/O	REAL, Second				
return seconds required minimum trigger interval.						
DCAM_IDPROP_TIMING_EXPOSURE	R/O	MODE				
DCAMPROP_TIMING_EXPOSUREOVERLAPREADOUT						

C11254-10B System information			
DCAM_IDPROP_NUMBEROF_VIEW	R/C)	LONG
2			
DCAM_IDPROP_ACTIVE_VIEWINDEX	R/V	٧	LONG
0 to 2, default 0			
DCAM_IDPROP_COLORTYPE	R/C)	MODE
DCAMPROP_COLORTYPEBW			
DCAM_IDPROP_BITSPERCHANNEL	R/V	٧	LONG
DCAMPROP_BITSPERCHANNEL8		DC	CAM_DATATYPE_UINT8
DCAMPROP_BITSPERCHANNEL12 (DEFAULT)		DC	CAM_DATATYPE_UINT16
DCAM_IDPROP_IMAGE_WIDTH	R/C)	LONG
return width pixel of current setting			
DCAM_IDPROP_IMAGE_HEIGHT	R/C)	LONG
return height line of current setting			
DCAM_IDPROP_IMAGE_ROWBYTES	R/C)	LONG
return horizontal rowbytes of current setting			
DCAM_IDPROP_IMAGE_FRAMEBYTES	R/C)	LONG
return bytes per frame of current setting			

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