DCAM-API

Property List

For

C10600-10B

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

C10600-10B

C10600-10B Sensor mode		
DCAM_IDPROP_SENSORMODE	R/O	MODE
DCAMPROP_SENSORMODE__AREA		

C10600-10B Readout Speed		
DCAM_IDPROP_READOUTSPEED	R/W	LONG
1 to 2		

C10600-10B Trigger		
DCAM_IDPROP_TRIGGERSOURCE	R/W	MODE
DCAMPROP_TRIGGERSOURCE__INTERNAL (DEFAULT)		
DCAMPROP_TRIGGERSOURCE__EXTERNAL		
DCAMPROP_TRIGGERSOURCE__SOFTWARE		
DCAM_IDPROP_TRIGGER_MODE	R/W	MODE
DCAMPROP_TRIGGER_MODE__NORMAL (DEFAULT)		
DCAMPROP_TRIGGER_MODE__START		
DCAM_IDPROP_TRIGGERACTIVE	R/W	MODE
DCAMPROP_TRIGGERACTIVE__EDGE (DEFAULT)		
DCAMPROP_TRIGGERACTIVE__LEVEL		
DCAMPROP_TRIGGERACTIVE__SYNCREADOUT		
DCAM_IDPROP_TRIGGERPOLARITY	R/W	MODE
DCAMPROP_TRIGGERPOLARITY__NEGATIVE (DEFAULT)		
DCAMPROP_TRIGGERPOLARITY__POSITIVE		
DCAM_IDPROP_TRIGGERTIMES	R/W	LONG
1 to 4095, default 1		

C10600-10B Sensor cooler		
DCAM_IDPROP_SENSORCOOLERFAN	R/W	MODE
DCAMPROP_MODE__OFF		
DCAMPROP_MODE__ON (DEFAULT)		

C10600-10B Binning and ROI		
DCAM_IDPROP_BINNING	R/W	MODE
DCAMPROP_BINNING__1 (DEFAULT)		
DCAMPROP_BINNING__2		
DCAMPROP_BINNING__4		
DCAMPROP_BINNING__8		
DCAM_IDPROP_SUBARRAYHPOS	R/W	LONG
0 to 1312, default 0		
DCAM_IDPROP_SUBARRAYHSIZE	R/W	LONG
32 to 1344, default 1344		
DCAM_IDPROP_SUBARRAYVPOS	R/W	LONG
0 to 1016, default 0		
DCAM_IDPROP_SUBARRAYVSIZE	R/W	LONG
8 to 1344, default 1024		
DCAM_IDPROP_SUBARRAYMODE	R/W	MODE
DCAMPROP_MODE__OFF(DEFAULT)		
DCAMPROP_MODE__ON		

C10600-10B Feature		
DCAM_IDPROP_LIGHTMODE	R/W	MODE
DCAMPROP_LIGHTMODE__LOWLIGHT (DEFAULT)		
DCAMPROP_LIGHTMODE__HIGHLIGHT		
DCAM_IDPROP_HIGHDYNAMICRANGE_MODE	R/W	MODE
DCAMPROP_MODE__OFF (DEFAULT)		
DCAMPROP_MODE__ON		
DCAM_IDPROP_EXPOSURETIME	R/W	REAL, Second
10 usec to 4200 sec, default 0.1 sec		
DCAM_IDPROP_CONTRASTGAIN	R/W	LONG
0 to 255, default 0		
DCAM_IDPROP_CONTRASTOFFSET	R/W	LONG
0 to 255, default 0		

C10600-10B Output Trigger		
DCAM_IDPROP_OUTPUTTRIGGER_POLARITY	R/W	MODE
DCAMPROP_OUTPUTTRIGGER_POLARITY__NEGATIVE (DEFAULT)		
DCAMPROP_OUTPUTTRIGGER_POLARITY__POSITIVE		
DCAM_IDPROP_OUTPUTTRIGGER_DELAY	R/W	REAL, Second
0 sec to 4200 sec, default 0 sec		
DCAM_IDPROP_OUTPUTTRIGGER_PERIOD	R/W	REAL, Second
10 usec to 4200 sec, default 100 usec		

C10600-10B 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_EXPOSURE__OVERLAPREADOUT		

C10600-10B System information		
DCAM_IDPROP_COLORTYPE	R/O	MODE
DCAMPROP_COLORTYPE__BW		
DCAM_IDPROP_BITSPERCHANNEL	R/W	LONG
DCAMPROP_BITSPERCHANNEL__8	DCAM_DATATYPE_UINT8	
DCAMPROP_BITSPERCHANNEL__12 (DEFAULT)	DCAM_DATATYPE_UINT16	
DCAMPROP_BITSPERCHANNEL__16	DCAM_DATATYPE_UINT16	
DCAM_IDPROP_IMAGE_WIDTH	R/O	LONG
return width pixel of current setting		
DCAM_IDPROP_IMAGE_HEIGHT	R/O	LONG
return height line of current setting		
DCAM_IDPROP_IMAGE_ROWBYTES	R/O	LONG
return horizontal rowbytes of current setting		
DCAM_IDPROP_IMAGE_FRAMEBYTES	R/O	LONG
return bytes per frame of current setting		
DCAM_IDPROP_IMAGE_TOPOFFSETBYTES	R/O	LONG
0		

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