DCAM-API

Property List

For

C11440-10C

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

C11440-10C

C11440-10C Sensor mode		
DCAM IDPROP SENSORMODE	R/O	MODE
DCAMPROP_SENSORMODE_AREA		
	l .	
C11440-10C Trigger		
DCAM_IDPROP_TRIGGERSOURCE	R/W	MODE
DCAMPROP_TRIGGERSOURCEINTERNAL (DEFAULT)		
DCAMPROP_TRIGGERSOURCEEXTERNAL		
DCAMPROP TRIGGERSOURCE SOFTWARE		
DCAM_IDPROP_TRIGGER_MODE	R/W	MODE
DCAMPROP_TRIGGER_MODENORMAL(DEFAULT)		1
DCAMPROP_TRIGGER_MODESTART		
DCAM_IDPROP_TRIGGERACTIVE	R/W	MODE
DCAMPROP_TRIGGERACTIVE_EDGE (DEFAULT)		1 -
DCAMPROP_TRIGGERACTIVE_LEVEL		
DCAMPROP_TRIGGERACTIVE_SYNCREADOUT		
DCAM_IDPROP_TRIGGER_GLOBALEXPOSURE	R/W	MODE
DCAMPROP_TRIGGER_GLOBALEXPOSUREDELAYED	1.5, 1.1	1
(DEFAULT)		
DCAMPROP_TRIGGER_GLOBALEXPOSUREEMULATE		
DCAM_IDPROP_FIRSTTRIGGER_BEHAVIOR	R/W	MODE
DCAMPROP_FIRSTTRIGGER_BEHAVIORSTARTEXPOSURE	10,11	1.1.022
DCAMPROP_FIRSTTRIGGER_BEHAVIOR_STARTREADOUT		
DCAM_IDPROP_TRIGGERPOLARITY	R/W	MODE
DCAMPROP_TRIGGERPOLARITY_NEGATIVE (DEFAULT)	10,00	WOBE
DCAMPROP TRIGGERPOLARITY POSITIVE		
DCAM_IDPROP_TRIGGERDELAY	R/W	REAL. Second
0 sec to 10 sec, default 0 sec	11///	REAL, Second
DCAM_IDPROP_TRIGGERTIMES	R/W	LONG
1 to 10000, default 1	10,00	120110
1 to 10000, doldari	<u> </u>	
C11440-10C Binning and ROI		
DCAM IDPROP BINNING	R/W	MODE
DCAMPROP_BINNING1 (DEFAULT)	11///	IMODE
DCAMPROP_BINNING_2		
DCAM_IDPROP_SUBARRAYHPOS	R/W	LONG
0 to 1918, default 0	17/77	LONG
DCAM_IDPROP_SUBARRAYHSIZE	R/W	LONG
2 to 1920, default 1920	17/7/	LONG
DCAM_IDPROP_SUBARRAYVPOS	R/W	LONG
0 to 1432, default 0	17/1/	LONG
	D AA	LONG
DCAM_IDPROP_SUBARRAYVSIZE	R/W	LONG
8 to 1440, default 1440	DA4	MODE
DCAM_IDPROP_SUBARRAYMODE	R/W	MODE
DCAMPROP_MODEOFF(DEFAULT) DCAMPROP_MODEON		
DUAINIPROP_INIODEUN		
C44440 40C Footure		
C11440-10C Feature	DAM	DEAL Coord
DCAM_IDPROP_EXPOSURETIME	R/W	REAL, Second
21 usec to 10 sec, default 0.021991 sec	DAA	LONG
DCAM_IDPROP_CONTRASTGAIN	R/W	LONG
0 to 255, default 0		



C44440 40C ALII		
C11440-10C ALU DCAM IDPROP CAPTUREMODE	DAM	MODE
	R/W	MODE
DCAMPROP_CAPTUREMODENORMAL (DEFAULT) DCAMPROP_CAPTUREMODEDARKCALIB		
DCAMPROP_CAPTUREMODE_SHADINGCALIB	D 0 0 /	Luope
DCAM_IDPROP_DEFECTCORRECT_MODE	R/W	MODE
DCAMPROP_MODE_OFF		
DCAMPROP_MODE_ON (DEFAULT)		T
DCAM_IDPROP_SUBTRACT	R/W	MODE
DCAMPROP_MODEOFF (DEFAULT)		
DCAMPROP_MODEON		
DCAM_IDPROP_SUBTRACTOFFSET	R/W	LONG
0 to 10000, default 0		
DCAM_IDPROP_DARKCALIB_SAMPLES	R/W	LONG
1 to 256, default 100		
DCAM_IDPROP_SUBTRACTIMAGEMEMORY	R/W	LONG
1, 2, 3 or 4		
DCAM_IDPROP_STORESUBTRACTIMAGETOMEMORY	W/O	LONG
1, 2, 3 or 4		
DCAM_IDPROP_SHADINGCORRECTION	R/W	MODE
DCAMPROP_MODEOFF (DEFAULT)		
DCAMPROP MODE ON		
DCAM_IDPROP_SHADINGCALIB_SAMPLES	R/W	LONG
1 to 256, default 100		
DCAM_IDPROP_SHADINGCALIBDATAMEMORY	R/W	LONG
1, 2, 3 or 4		
DCAM_IDPROP_STORESHADINGCALIBDATATOMEMORY	W/O	LONG
1, 2, 3 or 4	1	
1, 2, 0 01 1	· ·	
C11440-10C Output Trigger		
DCAM_IDPROP_OUTPUTTRIGGER_POLARITY	R/W	MODE
DCAMPROP_OUTPUTTRIGGER_POLARITY_NEGATIVE	1,7,7,	I MODE
(DEFAULT)		
DCAMPROP_OUTPUTTRIGGER_POLARITYPOSITIVE		
DCAM_IDPROP_OUTPUTTRIGGER_ACTIVE	R/O	MODE
DCAMPROP_OUTPUTTRIGGER_ACTIVE_EDGE	11/0	MODE
DCAM_IDPROP_OUTPUTTRIGGER_DELAY	R/W	REAL, Second
0 sec to 10 sec, default 0 sec	11///	REAL, Second
DCAM_IDPROP_OUTPUTTRIGGER_PERIOD	R/W	REAL, Second
10 usec to 10 sec, default 22 usec	FX/VV	INLAL, Second
DCAM_IDPROP_OUTPUTTRIGGER_KIND	R/W	MODE
	IT/VV	INIODE
DCAMPROP_OUTPUTTRIGGER_KIND_LOW (DEFAULT)		
DCAMPROP_OUTPUTTRIGGER_KIND_EXPOSURE		
DCAMPROP_OUTPUTTRIGGER_KINDPROGRAMABLE		
DCAMPROP_OUTPUTTRIGGER_KINDTRIGGERREADY		

DCAM-API Property List for C11440-10C

C11440-10C 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_EXPOSUREROLLING		
DCAM_IDPROP_INTERNALFRAMERATE	R/O	REAL, Second
0.1 to 45.454591		
DCAM_IDPROP_INTERNAL_FRAMEINTERVAL	R/O	REAL, Second
0.022 to 10.0		
DCAM_IDPROP_TIMING_GLOBALEXPOSUREDELAY	R/O	REAL, Second
0.0 to 0.022	S	See also EFFECTIVE flag
DCAM_IDPROP_TIMING_INVALIDEXPOSUREPERIOD	R/O	REAL, Second
0.0 to 0.021979		

C11440-10C System information			
DCAM_IDPROP_COLORTYPE	R/O	•	MODE
DCAMPROP_COLORTYPEBW			
DCAM_IDPROP_BITSPERCHANNEL	R/W	/	LONG
DCAMPROP_BITSPERCHANNEL12		DC	AM_DATATYPE_UINT16
DCAMPROP_BITSPERCHANNEL14		DC	:AM_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
return 0			

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