DCAM-API

Property List

For

C9100-13

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

C9100-13

C9100-13 Sensor mode			
DCAM_IDPROP_SENSORMODE	R/C)	MODE
DCAMPROP_SENSORMODE_AREA			
DCAM_IDPROP_CCDMODE	R/V	V	MODE
DCAMPROP_CCDMODE_NORMALCCD		•	
DCAMPROP_CCDMODE_EMCCD (DEFAULT)			
DCAM_IDPROP_EMCCD_CALIBRATIONMODE	R/V	V	MODE
DCAMPROP_MODEOFF (DEFAULT)	11/	<u>v</u>	WODE
DCAMPROP_MODEON			
DCAMPROP_MODEON			
00400 40 Bassland Cread			
C9100-13 Readout Speed	- D A		LLONG
DCAM_IDPROP_READOUTSPEED	R/V	•	LONG
1 to 3, default 3			CAMPROP_CCDMODEE
			CCD
1 to 2, default 2			AMPROP_CCDMODEN
1 to 2, uclauit 2			RMALCCD
C9100-13 Trigger			
DCAM_IDPROP_TRIGGERSOURCE	R/V	V	MODE
DCAMPROP_TRIGGERSOURCEINTERNAL (DEFAULT)			
DCAMPROP_TRIGGERSOURCEEXTERNAL			
DCAMPROP_TRIGGERSOURCESOFTWARE			
DCAM_IDPROP_TRIGGER_MODE	R/V	V	MODE
DCAMPROP_TRIGGER_MODENORMAL (DEFAULT)			
DCAMPROP_TRIGGER_MODE_START			
DCAM_IDPROP_TRIGGERACTIVE	R/V	V	MODE
DCAMPROP_TRIGGERACTIVE_EDGE (DEFAULT)	11/	<u> </u>	WODE
DCAMPROP_TRIGGERACTIVEEDGE (DEPAGET) DCAMPROP_TRIGGERACTIVE_LEVEL			
DCAMPROP_TRIGGERACTIVE_LEVEL			
DCAMPROP_TRIGGERACTIVE_SYNCREADOUT	- D A		MODE
DCAM_IDPROP_TRIGGERPOLARITY	R/V	V	MODE
DCAMPROP_TRIGGERPOLARITY_NEGATIVE (DEFAULT)			
DCAMPROP_TRIGGERPOLARITYPOSITIVE			
DCAM_IDPROP_TRIGGER_CONNECTOR	R/V	V	MODE
DCAMPROP_TRIGGER_CONNECTORINTERFACE			
DCAMPROP_TRIGGER_CONNECTOR_BNC (DEFAULT)			
DCAMPROP_TRIGGER_CONNECTOR_MULTI			
DCAM_IDPROP_TRIGGERTIMES	R/V	V	LONG
1 to 10000, default 1			
DCAM_IDPROP_INTERNALTRIGGER_HANDLING	R/V	V	MODE
DCAMPROP_INTERNALTRIGGER_HANDLING_SHORTEREXPO	DSU		
RETIME			
DCAMPROP INTERNALTRIGGER HANDLING FASTERFRAME	RA		
TE (DEFAULT)			
\	Į.		
C9100-13 Sensor cooler			
DCAM_IDPROP_SENSORTEMPERATURE	R/C	`	REAL
-100 to 50, default 1	10/0		NEAL
DCAM_IDPROP_SENSORCOOLER	R/V	.,	MODE
DCANI_IDPROP_SENSORCOOLER	IT/V		I.
DCAMPROP_SENSORCOOLEROFF (DEFAULT)			ailable in water cooler
·		mo	
DCAMPROP_SENSORCOOLER_ON (DEFAULT)		DΘ	fault in air cooler mode.
DCAMPROP_SENSORCOOLERMAX			
DCAM_IDPROP_SENSORTEMPERATURETARGET	R/C)	REAL
-100 to -65			
DCAM_IDPROP_SENSORCOOLERFAN	R/V	V	MODE
DCAMPROP_MODEOFF			
DCAMPROP_MODEON (DEFAULT)			
· · · · · · · · · · · · · · · · · · ·			



C9100-13 Sensitivity	
DCAM_IDPROP_DIRECTEMGAIN_MODE	R/W MODE
DCAMPROP_MODEOFF (DEFAULT)	
DCAMPROP_MODEON	
DCAM_IDPROP_SENSITIVITYMODE	R/O MODE
DCAMPROP_SENSITIVITYMODEON	
DCAM_IDPROP_SENSITIVITY	R/W REAL
0 to 255, default 0	
DCAM_IDPROP_PHOTONIMAGINGMODE	R/W MODE
DCAMPROP_PHOTONIMAGINGMODE0 (DEFAULT)	
DCAMPROP_PHOTONIMAGINGMODE1	
DCAMPROP_PHOTONIMAGINGMODE2	
DCAMPROP_PHOTONIMAGINGMODE3	
DCAM_IDPROP_EMGAINWARNING_STATUS	R/O MODE
DCAMPROP_EMGAINWARNING_STATUSNORMAL	
DCAMPROP_EMGAINWARNING_STATUSWARNING	
DCAMPROP EMGAINWARNING STATUS PROTECTED	
DCAM_IDPROP_EMGAINWARNING_LEVEL	R/W LONG
1 to 3, default 3	1
DCAM_IDPROP_EMGAINWARNING_ALARM	R/W MODE
DCAMPROP_MODEOFF (DEFAULT)	
DCAMPROP_MODE_ON	
DCAM_IDPROP_EMGAINPROTECT_MODE	R/W MODE
DCAMPROP_MODEOFF (DEFAULT)	
DCAMPROP MODE ON	
DCAM_IDPROP_EMGAINPROTECT_AFTERFRAMES	R/W LONG
1 to 255, default 1	TOTAL PROPERTY OF THE PROPERTY
1 to 255, derault 1	
C9100-13 Binning and ROI	
C9100-13 Binning and ROI DCAM IDPROP BINNING	R/W MODE
DCAM_IDPROP_BINNING	R/W MODE
DCAM_IDPROP_BINNING DCAMPROP_BINNING1 (DEFAULT)	R/W MODE
DCAM_IDPROP_BINNING DCAMPROP_BINNING1 (DEFAULT) DCAMPROP_BINNING2	R/W MODE
DCAM_IDPROP_BINNING DCAMPROP_BINNING1 (DEFAULT) DCAMPROP_BINNING2 DCAMPROP_BINNING4	
DCAM_IDPROP_BINNING DCAMPROP_BINNING1 (DEFAULT) DCAMPROP_BINNING2 DCAMPROP_BINNING4 DCAMPROP_BINNING8	M10354-01 option
DCAM_IDPROP_BINNING DCAMPROP_BINNING1 (DEFAULT) DCAMPROP_BINNING2 DCAMPROP_BINNING4 DCAMPROP_BINNING8 DCAMPROP_BINNING16	M10354-01 option M10354-01 option
DCAM_IDPROP_BINNING DCAMPROP_BINNING1 (DEFAULT) DCAMPROP_BINNING2 DCAMPROP_BINNING4 DCAMPROP_BINNING8 DCAMPROP_BINNING16 DCAM_IDPROP_SUBARRAYHPOS	M10354-01 option
DCAM_IDPROP_BINNING DCAMPROP_BINNING1 (DEFAULT) DCAMPROP_BINNING2 DCAMPROP_BINNING4 DCAMPROP_BINNING8 DCAMPROP_BINNING16 DCAM_IDPROP_SUBARRAYHPOS 0 to 504, default 0	M10354-01 option M10354-01 option R/W LONG
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DCAM_IDPROP_BINNING DCAMPROP_BINNING1 (DEFAULT) DCAMPROP_BINNING2 DCAMPROP_BINNING4 DCAMPROP_BINNING8 DCAMPROP_BINNING16 DCAM_IDPROP_SUBARRAYHPOS 0 to 504, default 0 DCAM_IDPROP_SUBARRAYHSIZE 8 to 512, default 512 DCAM_IDPROP_SUBARRAYVPOS 0 to 496, default 0 DCAM_IDPROP_SUBARRAYVPOS 10 to 496, default 512 DCAM_IDPROP_SUBARRAYVSIZE 16 to 512, default 512 DCAM_IDPROP_SUBARRAYVOB DCAM_IDPROP_SUBARRAYVOB 10 to 496, default 0 DCAM_IDPROP_SUBARRAYVOB 10 to 512, default 512 DCAM_IDPROP_SUBARRAYMODE DCAM_IDPROP_SUBARRAYMODE DCAM_IDPROP_SUBARRAYMODE DCAM_IDPROP_SUBARRAYMODE DCAM_IDPROP_BODEOFF DCAM_IDPROP_BODEON C9100-13 Feature DCAM_IDPROP_EXPOSURETIME 0.030530 to 7200, default 0.030530 DCAM_IDPROP_HIGHDYNAMICRANGE_MODE	M10354-01 option M10354-01 option R/W LONG R/W LONG R/W LONG R/W LONG R/W LONG R/W MODE R/W MODE
DCAM_IDPROP_BINNING DCAMPROP_BINNING1 (DEFAULT) DCAMPROP_BINNING2 DCAMPROP_BINNING4 DCAMPROP_BINNING8 DCAMPROP_BINNING16 DCAM_IDPROP_SUBARRAYHPOS 0 to 504, default 0 DCAM_IDPROP_SUBARRAYHSIZE 8 to 512, default 512 DCAM_IDPROP_SUBARRAYVPOS 0 to 496, default 0 DCAM_IDPROP_SUBARRAYVSIZE 16 to 512, default 512 DCAM_IDPROP_SUBARRAYVSIZE 16 to 512, default 512 DCAM_IDPROP_SUBARRAYVOB DCAM_IDPROP_SUBARRAYVOB DCAM_IDPROP_SUBARRAYMODE DCAM_IDPROP_SUBARRAYMODE DCAM_PROP_MODEOFF(DEFAULT) DCAMPROP_MODEON C9100-13 Feature DCAM_IDPROP_EXPOSURETIME 0.030530 to 7200, default 0.030530 DCAM_IDPROP_HIGHDYNAMICRANGE_MODE DCAM_IDPROP_HIGHDYNAMICRANGE_MODE	M10354-01 option M10354-01 option R/W LONG R/W DE R/W MODE
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C9100-13 ALU	D 44/	Lucas
DCAM_IDPROP_CAPTUREMODE	R/W	MODE
DCAMPROP_CAPTUREMODENORMAL (DEFAULT)		
DCAMPROP_CAPTUREMODEDARKCALIB		
DCAMPROP_CAPTUREMODESHADINGCALIB		
DCAM_IDPROP_INTERFRAMEALU_ENABLE	R/W	MODE
DCAMPROP INTERFRAMEALU ENABLE OFF	•	
DCAMPROP_INTERFRAMEALU_ENABLETRIGGERSOURCE	ALL	
DCAMPROP INTERFRAMEALU ENABLE TRIGGERSOURCE	_	
ERNAL (DEFAULT)		
DCAM_IDPROP_FRAMEAVERAGINGMODE	R/W	MODE
DCAMPROP_MODE_OFF (DEFAULT)	1000	INOBE
DCAMPROP MODE ON		
DCAM_IDPROP_FRAMEAVERAGINGMODE	R/W	MODE
	I R/VV	MODE
2 or 4, default 2	D 444	Lucas
DCAM_IDPROP_RECURSIVEFILTER	R/W	MODE
DCAMPROP_MODEOFF (DEFAULT)		
DCAMPROP_MODEON		
DCAM_IDPROP_RECURSIVEFILTERFRAMES	R/W	MODE
DCAMPROP_RECURSIVEFILTERFRAMES2 (DEFAULT)		
DCAMPROP_RECURSIVEFILTERFRAMES4		
DCAMPROP_RECURSIVEFILTERFRAMES8		
DCAMPROP RECURSIVEFILTERFRAMES 16		
DCAM_IDPROP_SPOTNOISEREDUCER	R/W	MODE
DCAMPROP_MODEOFF (DEFAULT)	1.011	111002
DCAMPROP_MODE_ON		
DCAM_IDPROP_SUBTRACT	R/W	MODE
DCAMPROP_MODEOFF (DEFAULT)	17/77	WODL
DCAMPROP_MODE_ON	D 0.07	LLONG
DCAM_IDPROP_SUBTRACTOFFSET	R/W	LONG
0 to 10000, default 0		
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 SHADINGCALIBDATAMEMORY	R/W	LONG
1, 2, 3 or 4	1000	20110
DCAM IDPROP STORESHADINGCALIBDATATOMEMORY	W/O	LONG
	VV/O	LONG
1, 2, 3 or 4		
2010010 10 0 1 171		
C9100-13 Output Trigger	- n	THORE
DCAM_IDPROP_OUTPUTTRIGGER_POLARITY	R/W	MODE
DCAMPROP_OUTPUTTRIGGER_POLARITYNEGATIVE		
(DEFAULT)		
DCAMPROP_OUTPUTTRIGGER_POLARITYPOSITIVE		
DCAM_IDPROP_OUTPUTTRIGGER_ACTIVE	R/O	MODE
DCAMPROP_OUTPUTTRIGGER_ACTIVEEDGE		
DCAM_IDPROP_OUTPUTTRIGGER_DELAY	R/W	REAL, Second
0 sec to 10 sec, default 0 sec		•
DCAM_IDPROP_OUTPUTTRIGGER_PERIOD	R/W	REAL, Second
10 usec to 7200 sec, default 1 msec	1,4.4	
10 4000 to 1200 000, doladit 1 111000		

DCAM-API Property List for C9100-13

C9100-13 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_EXPOSUREAFTERREADOUT		
DCAMPROP_TIMING_EXPOSUREOVERLAPREADOUT		
DCAM_IDPROP_INTERNALFRAMERATE	R/O	REAL, frames/Second
0.000139 to 31.939049	·	
DCAM_IDPROP_INTERNAL_FRAMEINTERVAL	R/O	REAL, Second
0.031310 to 7200 sec	·	
C9100-13 System information		
DCAM_IDPROP_COLORTYPE	R/O	MODE
DCAMPROP_COLORTYPEBW		
DCAM_IDPROP_BITSPERCHANNEL	R/O	MODE
DCAMPROP_BITSPERCHANNEL16		
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		•

return bytes per frame of current setting DCAM_IDPROP_IMAGE_TOPOFFSETBYTES

0

R/O

LONG

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