

MALLINCAM™ B&W HYPER SPECIFICATIONS

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POWER SUPPLY	12 VOLT DC Regulated at 435ma with Peltier Cooler and Integration ON
OPERATIONAL TEMPERATURE	-31 C to 52 C (-23 F to 125 F)
OPERATIONAL HUMIDITY	<90% RH
GAMMA CORRECTION	0.45 AND 1.0 Adjustable by OSD
VIDEO OUTPUT	1.1 Volt, P-P at 75 Ohms
GRAY SCALE BAR GENERATOR	Selectable by OSD
HIGH LIGHT SUPPRESSOR	Selectable by OSD
IMAGE ENHANCE MODE	Vertical and Horizontal Selectable by OSD
RS-482	Mini DIN Connector - 8 Pin
IMAGE FREEZE	Selectable by OSD or Remote Via RS-482 (Up to 128X SENSE Only)
AGC (GAIN)	ON, OFF, or Manual - Selectable by OSD
MASKING AREA	Selectable by OSD
NEGATIVE IMAGE SELECTION	Selectable by OSD
REVERSE IMAGE SELECTION	Selectable by OSD
DIGITAL ZOOM	2X MAX Selectable by OSD (16 Steps)
BLC SELECTION	Selectable by OSD
IMAGE MIRROR FUNCTION	Selectable by OSD
ELECTRONIC SHUTTER	1/60th to 1/12,000 Second
S/N RATIO	65 dB with AGC OFF
GAIN CONTROL	0 to 20 DB (AGC)
RESOLUTION	600 Lines (Tested at 760 Lines)
LUX at F/1.4 STANDARD MODE	0.00002 @5600K 30 IRE
LUX at F/1.4 HYPER MODE	0.0000000000003 @5600K 30 IRE
LUX with PELTIER ON STANDARD MODE	0.00001 @5600K 30 IRE
LUXwith PELTIER ON HYPER MODE	0.0000000000001 @5600K 30 IRE
SCANNING SYSTEM	525 Lines, 60 fields per second
CCD SENSOR SPECIFICATIONS	
CCD SENSOR SPECIFICATIONS	ICX 428 ALL-A (Astronomical Grade Class 1) Monochrome
CCD SENSOR TYPE	EXview HAD CCD with MicroLens Pixel Technology
IMAGE SIZE TYPE	1/2 Inch
SYSTEM	EIA or CCIR
TOTAL PIXELS	811H X 508V (410K Pixels)
EFFECTIVE PIXELS	768H X 494V (380K Pixels)
SENSITIVITY	1,400 mV (Tested at Shutter Speed of 1/250th Second at Center Screen)
UNIT CELL SIZE	8.4H x 9.8V
CHIP SIZE	7.40mm H X 5.95mm V
PACKAGE	Ceramic-DIP
SUBSTRATE MATERIAL	Silicon

Spectral Sensitivity Characteristics (Excludes lens characteristics and light source characteristics)