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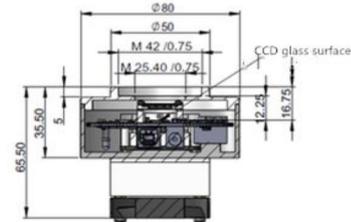
The miniCAM5S is intended to be a high value, multipurpose camera supporting deep space, and planetary imaging. The camera uses a high QE 1.2mega pixel 1/3inch 1280\*960 CMOS sensor. The mono version has a QE of 75% and the color version 62%. MiniCAM5S has 30fps high speed output at the full 1280\*960 resolution and 200fps at 320\*240, making it a great planetary camera. It has a professional two stages TEC and temperature regular which can cool the image sensor down to -45 below ambient making it an ideal deep space camera. It also has the extremely low readout noise to  $2e^-$ . The high speed, high QE, cooling system make the camera ideal for both deep space and planetary imaging along with many scientific applications.

**Features**

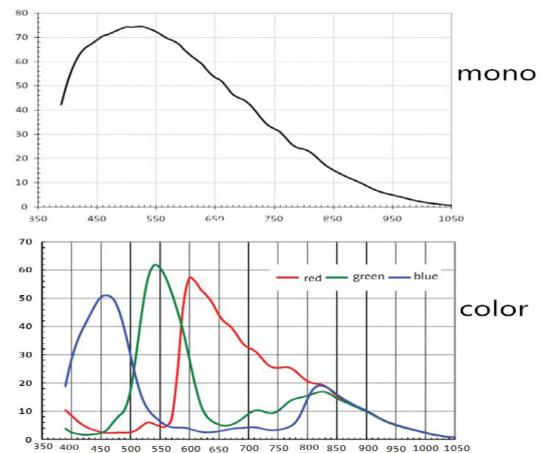
CMOS Sensor	MT9M034
CMOS Size	Typical 1/3 inch
Effective Pixel	1280*960
Pixel Size	3.75um*3.75um
Readout Type	Progressive Scan
Shutter	Electric rolling shutter
Exposure Time	10us-1800 sec
Max Speed	1280*960 30FPS
Pixel Binning	1*1 2*2
Peak QE	Mono>74% Color
AD convert	8bit/12bit(output)
Readout clock	48MHz/72MHz
Readout Noise	High Gain $2e^-$ Medium Gain $4e^-$ Low Gain $7e^-$
Full Well	$18ke^-$
Mechanical interface	M42/1.25inch T ring /C mount
Optic glass window	Mono: AR+AR Clear glass
Silicon gel socket	Yes
Weight(Camera only)	280g
Power Consumption	50% Cooling Power 10.7 Watt
Guider Interface	5pin aviation socket (*Note)
USB2.0 Interface	Yes

Note:miniCAM5S has two versions. Standard version has no guider socket. Guider version has 5pin aviation guidersocket.

**Size and B.F.L**



**QE Curve**



**Guide Port**

