

# Technical Specifications

## Astrovid SOLARCAM

<b>CCD Size:</b>	2/3"
<b>Effective Pixel:</b>	768 x 494
<b>Chip Size:</b>	10.25 x 8.5
<b>Cell Size:</b>	11.6 x 13.5
<b>Scan Size:</b>	8.91 x 6.67
<b>Signal Format:</b>	EIA
<b>Horz. Freq. (KHz)</b>	15.734
<b>Vert. Freq. (Hz)</b>	59.94
<b>Horz. Resolution:</b>	570
<b>Lens Mount:</b>	C-Mount
<b>Sync. System:</b>	Internal or External (Auto detect of HD input pulse at 'Ext. Position' of the sync switch)
<b>Ext. Sync. Signal:</b>	HD/VD (H:2~5V, L;0~0.6V), 15.734KHz $\pm$ 1.0% (EIA)15.625KHz $\pm$ 1.0% (CCIR) Input impedance switchable (75 $\Omega$ or high impedance) for HD/VD
<b>Scanning System:</b>	2:1 Interlace (Internal Sync.)
<b>S/N Ratio:</b>	56db at zero gain
<b>Gamma Correction:</b>	On (0.45) / Off (1.0)
<b>Integration Mode:</b>	Frame or Field
<b>Electronic Shutter:</b>	1/250, 1/500, 1/1000, 1/2000, 1/4000, 1/10000 (EIA) Flickerless: 1/100 (EIA), 1/120 (CCIR)
<b>Gain:</b>	AGC (0-20db), Manual (POT on rear panel) / Fixed at 13db
<b>Random Shutter</b>	Fast 1/1000000 second electronic shutter w/ <u>one pulse</u> variable integration
<b>Trigger x 3:</b>	random shutter trigger (reset or non-reset). <u>Two pulse</u> variable integration random trigger (reset or non-reset) <u>Fixed</u> Integration random shutter trigger (reset or non-reset)
<b>Ext. Trigger Signals:</b>	Positive / Negative modes H level=3~5V, L Level=0~0.6V
<b>Reset / Restart:</b>	Integration time controlled by external VD (requires ext. HD and VD)
<b>WEN:</b>	Active high, H level=3~5V, L level=0~0.6V
<b>Power Input:</b>	12VDC (10.5~15V)
<b>Power Current:</b>	220mA (STC-700), 180mA(STC-720), 175mA(STC-730), 170mA(STC-700E)
<b>Operating Temp:</b>	-5°C~+45°C                      20~80% (No Condensation)
<b>Storage Temp:</b>	-30°C~+60°C                      20~80% (No Condensation)
<b>Spec. Guarantee</b>	
<b>Temp. Range:</b>	0°C~+40°C
<b>Vibration:</b>	10G (20~200Hz)
<b>Shock:</b>	70G
<b>Size:</b>	44(W) x 29(H) x 72.7(D) From C-Mount to 12 Pin Connector
<b>Weight:</b>	97g