



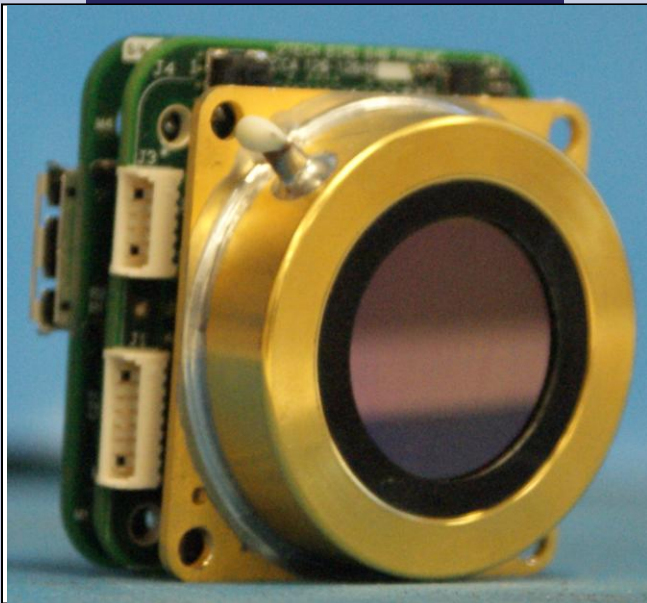
BIRD 640E U-2

Description

SCD.USA's BIRD 640E U-2 is a full-featured Video Engine for BIRD 640 VOx, 25 μ m Uncooled Detector.

Key Features

- Miniature Size
- Low Power
- Excellent Performance
- Flexible Analog and Digital Video Interface Control and Output



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BIRD 640E U-2



FEATURE	DETAILS
Technology	Vox Microbolometer
Array Format	640 X 480
Pixel Pitch	25um
Frame rate	60 Hz (Max)
Sepctral Bandwidth	8 to 14 um
Array Operability	>99.5
NETD	<50°mK @ 10msec TC, 60Hz (f/1)
Power, Nominal @25°C	2.5W @ 60Hz
Video Interface	<ul style="list-style-type: none"> ▪ Digital LVDS Cameralink ▪ Analog, RS170 NTSC ▪ Optional USB 2.0
Control / Data Interface	<ul style="list-style-type: none"> ▪ RS232 ▪ 5 digital I/Os Configurable functions
Shutter Operation	5V Switch
Back Focal distance	3.76 mm
Electric Focus	2 Programmable Pulse Width Modulator Outputs for External Motor Drive
Size	46 x 48 x 31 (W/L/H) [mm]
IR Image Processing	<ul style="list-style-type: none"> ▪ Non-Uniformity Correction (NUC) ▪ Bad Pixels Replacement (BPR) ▪ Dynamic Range ->60Hz -100C, ->30Hz-1000C ▪ Sun-Burn Resistance ▪ On-screen Display ▪ Black Hot/White Hot ▪ Flip Video: Left/Right, Up/Down ▪ Zoom 2x, 4x ▪ Contrast & Brightness Adjustment ▪ Freeze Video ▪ Gain Adjustment
Input Voltage	8 –24 VDC
Turn on time	<ul style="list-style-type: none"> ▪ 5 Sec to image ▪ 20 Sec to NETD
Temperature Range	▪ Oper:-40°C to +70°C, Storage:-46°C to +105°C
Weight	70g (Basic Unit)
Vaccuum Integrity	15 years