



12 MP SPHERICAL CAMERA IMAGING SYSTEM

FLIR LADYBUG® 3 FireWire

P/N LD3-20S4C-33

The high resolution Ladybug®3 spherical digital video camera system has six 2 MP cameras that enable the system to collect video from more than 80% of the full 360° sphere, and an IEEE-1394b (FireWire) interface with locking screw connection that allows JPEG-compressed 12 MP resolution images to be streamed to disk at 15 FPS.

www.flir.com/spherical-vision

FEATURES

WEATHER-RESISTANT CASE

6 SENSORS, 12 MP TOTAL

SYNCHRONIZE TO EXTERNAL
TRIGGER OR LIGHT SOURCE

COMPLETE HARDWARE DEV KIT INCLUDED

APPLICATIONS

OUTDOOR TERRAIN AND
ENVIRONMENT MAPPING FOR GIS

INTERNAL BUILDING MAPPING

VIRTUAL REALITY APPLICATIONS

IMMERSIVE CAPTURE FOR NEWS
OR SPORTS BROADCASTS

SPECIFICATIONS

MODEL	VERSION	MP	IMAGING SENSOR
LD3-20S4C-33	Red	2.0 MP	<ul style="list-style-type: none">■ Sony ICX274 CCD x6, 1/1.8", 4.4 μm■ Global Shutter■ 1600 x 1200 at 16 FPS JPEG compressed; 6.5 FPS uncompressed
LD3-20S4C-33B	Black		
A/D Converter	12-bit		
Image Data Output	8-bit Raw Bayer digital data		
Image Data Formats	Raw8, Mono8		
Partial Image Modes	Pixel binning and region of interest (ROI) modes		
Image Processing	Shutter, gain, white balance, gamma and JPEG compression, are programmable via software		
Shutter	Global shutter; Automatic/manual/one-push/extended shutter modes 0.01 ms to 4.2 s (extended shutter mode)		
Gain	Automatic/manual/one-push modes 0 - 24 dB		
Gamma	0.50 to 4.00		
White Balance	Manual		
High Dynamic Range	Cycle 4 gain and exposure presets		
Digital Interface	9-pin 1394b 800 MB/s interface for camera control, power, and video data; locking screw guarantee secure connection		
Transfer Rates	100, 200, 400, 800 Mbit/s		
GPIO	8-pin GPIO connector for external trigger, strobe, serial port, or external power		
External Trigger Modes	IIDC Trigger Modes 0, 1, 3, 14, 15		
Memory Channels	2 memory channels for custom camera settings		
Case	Machined aluminum housing, anodized red or black; single unit, water resistant		
Dimensions	122 mm x 141 mm (without lens hoods)		
Mass	2414 g		
Power Consumption	7.2 W at 12 V via GPIO or FireWire interface		
Machine Vision Standard	IIDC v1.31		
Camera Control	via Ladybug SDK, CSRs, or third party software		
Camera Updates	In-field firmware updates		
Optics	Six high quality 3.3 mm focal length lenses		
Field of View	>80% of full sphere		
Spherical Distance	Calibrated at 20 m		
Focus Distance	~200 cm. Objects have an acceptable sharpness from ~60 cm to infinity		
Temperature	Operating: 0° to 45°C; Storage: -30° to 60°C		
Humidity	Operating: 20 to 80% (no condensation) ; Storage: 20 to 95% (no condensation)		
Compliance	CE, FCC, RoHS		
Operating System	Windows XP, Windows 7		
Warranty	One Year		

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The World's Sixth Sense®