

# Legend Series

## SpectroCam

\$8,995

Includes light, lens,  
FrameWork software  
and training

DVT's new Legend SpectroCam is a spectral line imaging SmartImage Sensor. SpectroCam captures a line image of a target; using prisms and grating optics, it disperses light from each line image pixel along the spectrum. Each captured image contains line pixels in spatial axis and spectral pixels in spectral axis. Unlike other color smart cameras using RGB platforms, SpectroCam offers more detailed color information across the entire visible and Near Infrared (NIR) spectrum. This allows the CCD to capture more data for more accurate measurements and detection of very slight color variations. Unlike point color spectrophotometers, SpectroCam provides spatial resolution and simultaneous measurement across a large number of points.

The Legend SpectroCam combines a high-speed processor, 640 x 480 resolution and DVT's award-winning Framework software to deliver a new and powerful color inspection tool when standard color cameras are not appropriate for a particular application.

With Legend SpectroCam, accurate positioning of parts is not required for inspections, which offers more flexibility and integration options in the manufacturing environment.

Applications can include:

- Precise and stable color comparisons of webs and surfaces of materials including ceramic tiles, painted wood, stones, marble, textiles, paper and plastic manufacturing.
- Color verification of parts in electronic, automotive and consumer product industries
- Quality assurance of cosmetic products
- Fruit and vegetable inspection and classification based on color and ripeness
- Plastic and glass bottle sorting or identification of products based on color codes
- Multi-parametric measurement of blood and body fluid samples, simultaneous measurement in sample cells, or spectral microscopy
- Spectral scanning of films, light source testing or fast color quality control on paper samples



(770) 449-4960 [www.dvtsensors.com](http://www.dvtsensors.com)

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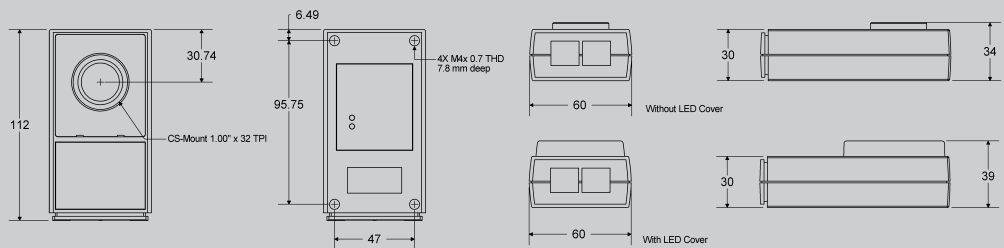


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## SpectroCam

### SpectroCam specs

Size	112mm x 60mm x 162mm
Mounting	Four M4 threaded holes (on the back of unit), 7.9mm depth
Weight	501g/14oz.
Power Requirements	24V DC, 210mA (or minimum 5W supply), regulated and isolated. Additional 5W required for integrated light option. Additional 30W required per DVT LED array light.
Operating Temperatures	Operating Temperature: 0-45° C, 32-113° F
Image Sensor	4.8mm x 3.6mm (1/3" format) CCD, 640 x 480 pixel resolution, 7.4µm x 7.4 µm pixels
Electronic Shuttering	10 µs – 1 second exposure times
Optics	C-mount
External Port	RJ-45 for 10/100 Mbps Ethernet communications, 10 pin keyed modular connector for power and digital I/O
Digital I/O	24V DC regulated, 8 configurable inputs and outputs, NPN (current sinking) inputs, PNP (current sourcing) outputs, active high signals. Inputs can sink up to 1.5mA and outputs source a maximum of 50 mA
Spectral Range	380-780nm with V8 and 430-900nm with V9
Light	White LED
Lens	Tamron 25mm C-mount
Line of Sight	1.5" to 4"
Certifications	CE certified



Note: All Units in mm.



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