

Leeds LSV2 Spectral Vision System Specifications

The LSV2 is an ALS lighting system with multispectral energy efficient

Remote controlled LED illumination and imaging system

Two light pods with seven (7) discrete illumination/excitation wavelengths provided by:

Seven (7) independent dedicated LEDs per pod, including:

- Ultraviolet (365 nm peak) emitting LED
- Violet (405 nm peak) emitting LED
- Blue (455 nm peak) emitting LED
- Green (528 nm peak) emitting LED
- Amber (589 nm peak) emitting LED
- Near Infrared (860 nm peak) emitting LED
- White emitting LED with a spectral bandwidth of 400-700 nm and a color temperature at 5700°K.

Lighting mounted directly to LSV2 head such that the light position moves remains fixed respective to the imaging head.

Lighting is mounted on flexible arms allowing oblique high-angle illumination and size/intensity adjustments to be made to the area of illumination.

Camera head is mounted on a freely moving gimble with 360° rotation in X, 360° rotation in Y, 280° rotation in Z.

59 inches of horizontal reach.

46 inches of vertical adjustment (20 inches which are motorized).

Fully motorized 5 position barrier filter turret with changeable filters. Default filters are: 550nm, 570nm, 610nm, 830nm, and 400nm (clear).

Direct image capture of 2.8 MP image resolution via software control.

Color high efficiency Bayer-Mask CCD camera with ~45% Blue quantum efficacy (~450nm peak), ~59% Green quantum efficacy (~545nm peak), and ~62% Red Efficiency (~610nm peak).

Camera control via software for white balance, exposure, gain, and adaptive auto exposure.

Up to 40 fps at full resolution live update.

Fully motorized optical zoom system with zoom, focus, aperture, and motorized front lens selection (+3.5, +2.0, and +1.0 Diopter close up lenses) controlled remotely via computer and with user programmable presets.

Highly Variable working distance. Minimum field of view ~1 inch and the system is capable of imaging a field of view over 25.5 inches.

The software for control of LSV2 includes image collection, comparison views, annotation, measurement (polygon, angles, 3 point circle, 2 point circle, line) and exportation of images to JPEG, TIFF, PNG, or BMP with standard XML metadata file generation.

Integrated 7" touch screen mounted directly to imaging head.

Computer included with 24 inch flat screen display and mobile computer cart.

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