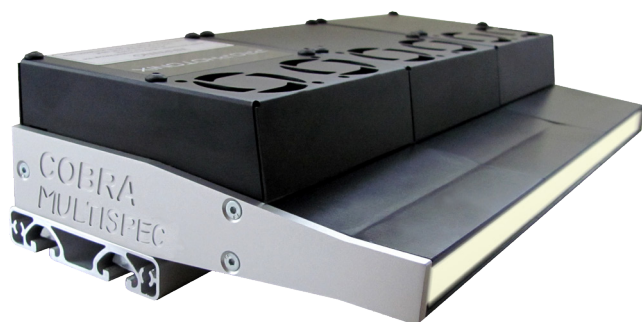


COBRA™ MultiSpec

Multispectral LED Line Light



Multispectral Tunable Illumination for Optimal Image Acquisition

COBRA™ MultiSpec has been designed to deliver multispectral tunable illumination allowing you to optimize your image acquisition. With discrete control of up to twelve wavelengths you can maximize contrast by choosing the optimum colors and provide more intensity in specific wavelengths to suit your application needs.

UV, Visible & IR wavelengths are available along with a wide range of optical options to ensure the optimum illumination for your application. COBRA MultiSpec is available in wavelengths from 365 - 1500nm and in configurations from two to twelve wavelengths in a compact form factor.

COBRA MultiSpec offers users precise control of the light via Ethernet IP commands for optimal signal to noise ratio at each wavelength. To enable rapid data acquisition and analysis, multispectral strobe patterns with up to four optically independent strobe lines come as standard. For example, a COBRA MultiSpec configured with twelve wavelengths may be programmed to emit three wavelengths per strobe line. The system would capture data on all twelve wavelengths in one strobe cycle with a total delay and response time profile of less than one micro second (1 μ s).

COBRA MultiSpec utilizes Chip-on Board technology to ensure extreme brightness and excellent uniformity. In addition, COBRA Multispec offers field adjustable optics allowing you to select the optimum lens position for your application. COBRA Multispec is modular and is available in any length up to 5 meters.



Key Features

- Available with up to Twelve Wavelengths
- Four Independent Strobe Lines
- Chip-On-Board: Extreme Brightness and High Uniformity
- Modular: Available in any Length
- On-board Ethernet Control
- Input Power Monitoring

Options Available

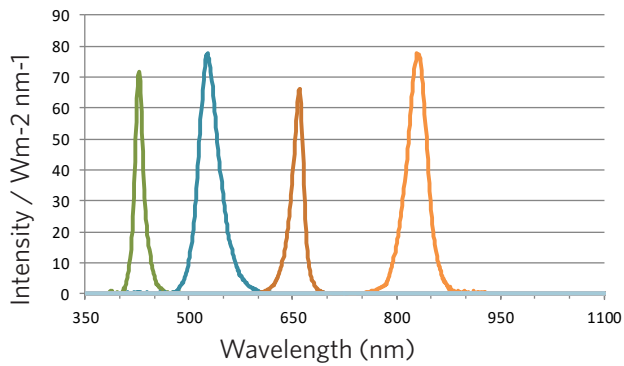
- Custom Strobe Profiles
- Factory-Set Strobe Profile(s)
- Custom Number of Strobe Lines

Key Applications

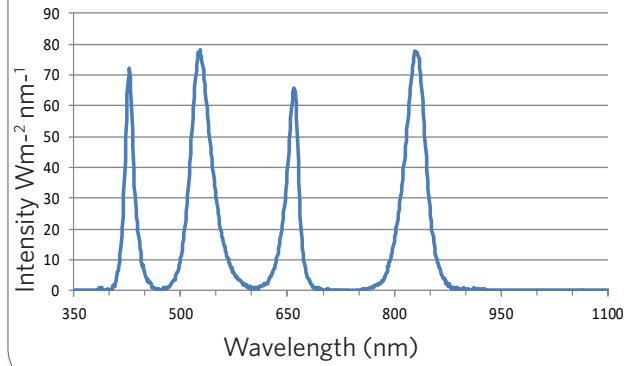
- Food Sorting
- Recycling Sorting
- Currency Inspection
- Multispectral Imaging
- Hyperspectral Imaging

Example Configurations

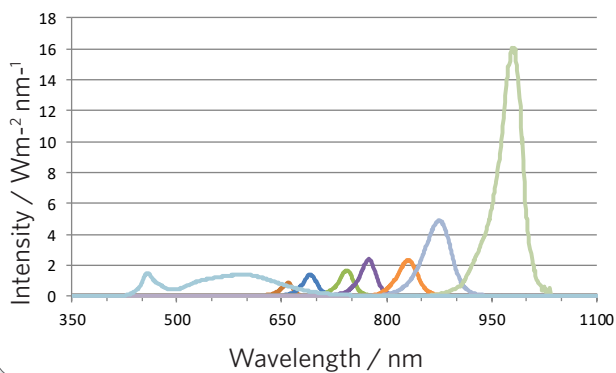
Spectral Characteristics - RGB - IR



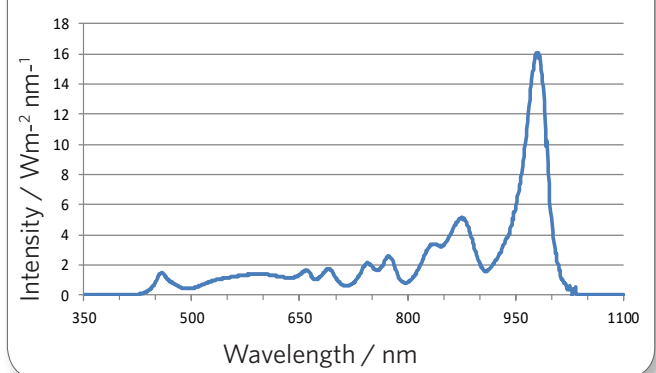
Intensity vs Wavelength - RGB - IR



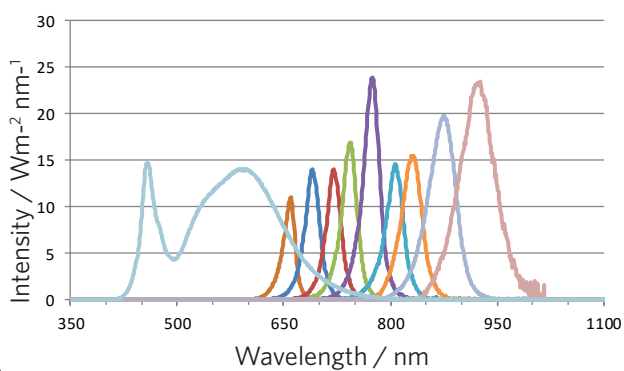
Spectral Characteristics - 8 wavelength



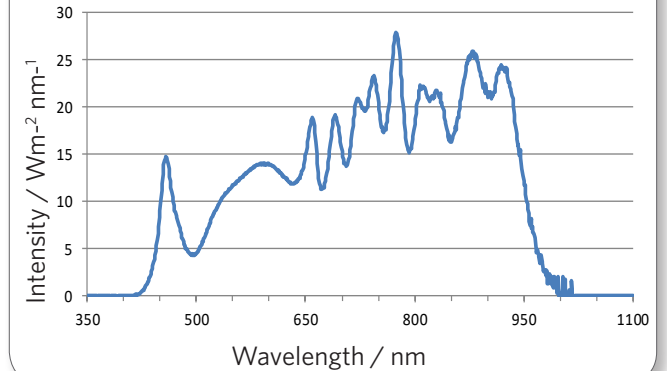
Intensity vs Wavelength - 8 wavelength



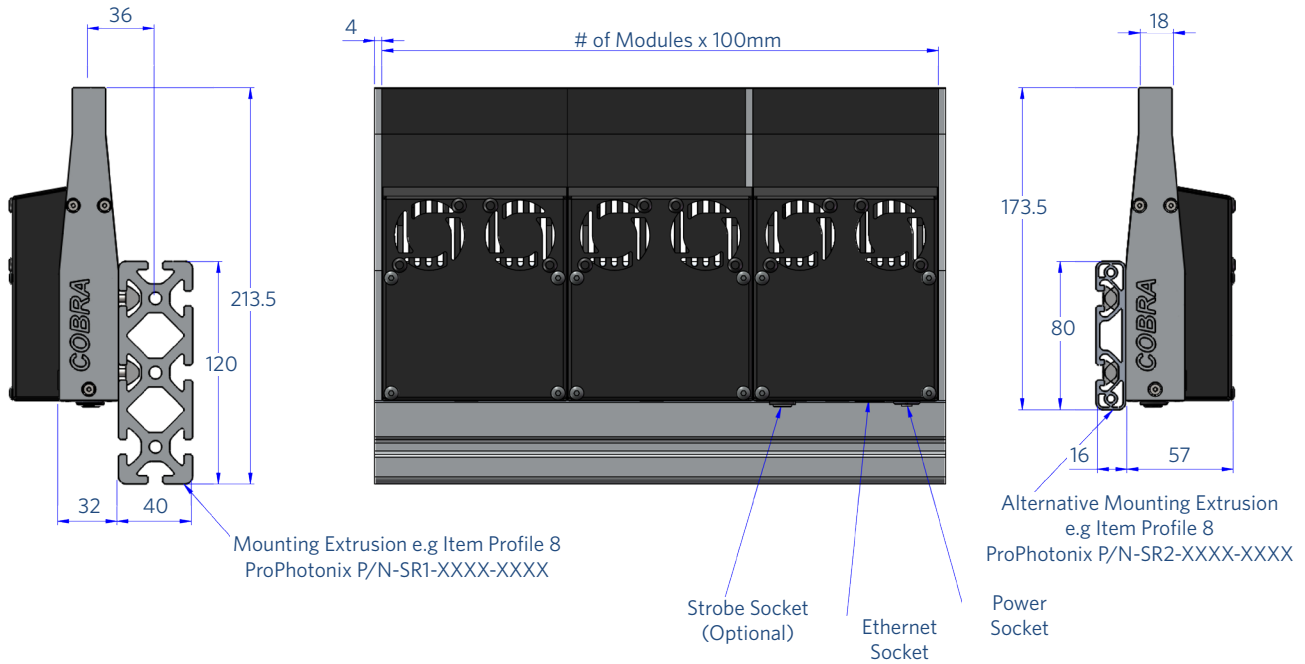
Spectral Characteristics - 10 wavelength



Intensity vs Wavelength - 10 wavelength



Dimensional Diagram



For all COBRA MultiSpec longer than 100-mm, standard Item brand aluminum extrusion Profile 8 is used for rigidly aligning and connecting the 100-mm COBRA MultiSpec modules together. The extrusion is also used for mounting the light in the machine. Two options are available (see dimensional specifications).

(Note: the overall length of the COBRA is 8mm longer than its illuminated width)



Note: Other extrusion profile forms and dimensions available on request. Custom back plates also available on request. 100mm units do not require a mounting extrusion.

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