



CEL5500

Compact Embeddable Light Engines

Digital Light
innovations

CEL5500 Features

- Production-Ready Platform
- DLP5500 0.55" XGA Chipset
- 5,000Hz binary Pattern Rates
- 500Hz 8-bit grayscale
- 60Hz Video Rates
- LED or Fiber Illumination
- Up to 120 Lumens (LED)
- Use your own Light Source
- High-Brightness (Fiber)
- 3 x Output Syncs
- 3 x Input Triggers
- Interface w/ C++, MATLAB, .NET, VB, & LabVIEW
- USB / HDMI / SPI Interfaces
- 7" x 3.8" x 3"

The **CEL5500 Compact Embeddable Light Engine** is a modular, production-ready projection platform designed to provide users with an industrial DLP® solution that is small, lightweight, and multi-functional.

The flexible, scalable architecture of the **CEL5500** allows for a wide variety of configurations & customizations to meet your R & D and volume production needs.

The **CEL5500** is designed for high brightness, monochromatic Structured Light applications such as 3D Scanning & Metrology, Machine Vision, and Medical Imaging.



DLP5500 0.55" XGA Chipset

The **CEL5500** utilizes TI's DLP5500 0.55" XGA Chipset from the best-selling LightCommander™ platform. The **CEL5500** also uses the same LightCommander API & Control Software, so users can easily transfer & utilize the same custom code & projects with the **CEL5500**. No need to start over or duplicate your work!



Two Illumination Configurations

CEL5500-LED **CEL5500-Fiber**

The **CEL5500-LED** uses a single-channel R, G, B, W, or UV LED and is ideal for monochromatic applications such as 3D Printing, Microscopy, and Rapid Prototyping.

The **CEL5500-Fiber** enables you to use your own fiber-optic light source. This configuration is an ideal solution for high-brightness applications requiring greater flexibility over light sources & power levels.

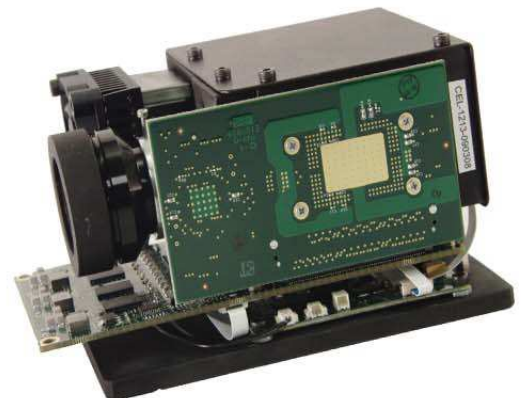
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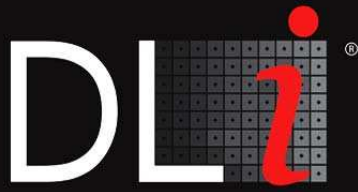
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CEL5500-Fiber



CEL5500-LED



CEL5500

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CEL5500 Optics

- Modular Optics Design
- On-Axis, 100% Offset
- Telecentric Projection
- 1.6:1 Throw Ratio
- 160-500mm Image Width
- 300mm-800mm Throw
- Includes 37mm Adapter Ring
- Compatible w/ Lens Adapters
- CELscope Ready

Custom Designs Available



The **CEL5500** optics were designed with flexibility in mind. The 37mm adapter offers the ability to add a wide array of off-the-shelf lenses such as wide angle, telephoto, fisheye, & short-throw macro. This enables users to conveniently optimize the **CEL5500** optics specific to their application without having to spend a lot of money.

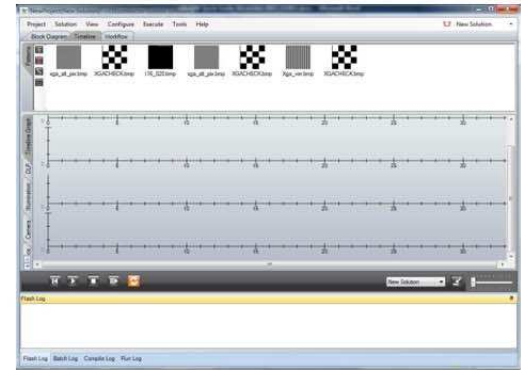
DLP LightCommander API

Application Report



The **CEL5500** includes the LightCommander™ API which directly interfaces with C++, .NET, VB, Visual Studio, MATLAB, & LabVIEW. The use of this API makes it very convenient and painless for LightCommander users to transition to **CEL5500** platform.

The **CELconductor** Control Software is an enhanced version of the widely used and proven LightCommander Control Software. It provides a multitude of tools & resources for **CEL5500** users to leverage when customizing their application.



CELconductor Control Software



CELscope C-Mount Microscope Interface

CEL5500 Software

- LightCommander™ API
- CELconductor Control Software
- Light Animator™ User Interface

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Light Animator™ now comes with the purchase of the **CEL5500**. The Light Animator User Interface unlocks the full capabilities of the DMD right out of the box without the need for any programming. Light Animator is a very user friendly, intuitive interface and it is a great resource for **CEL5500** users.