LC3000-PRO - Industrial Projector
for Machine Vision & Industrial Applications

The LC3000-PRO from Keynote Photonics is a new class of industrial projector designed specifically for applications which benefit from a small yet bright and rugged solid state lighting source.

Using the same architecture as the Texas Instruments DLP® LightCrafter™ Evaluation Module, the LC3000 Pro is software compatible with the LightCrafter and enhanced in several areas making it ideal for production deployment in machine vision and other applications where structured lighting or precisely controlled illumination is a necessity.

LC3000-PRO Industrial Pico Projector

Benefits of LC3000-PRO...

✦ **Reliability - DLP technology core**

✦ **Producibility - readied for production**

✦ **Flexibility - Simple to use other light-sources.**

✦ **Best in class brightness.**

✦ **Factory Ready Rugged Chassis**

✦ **High ROI on development costs**
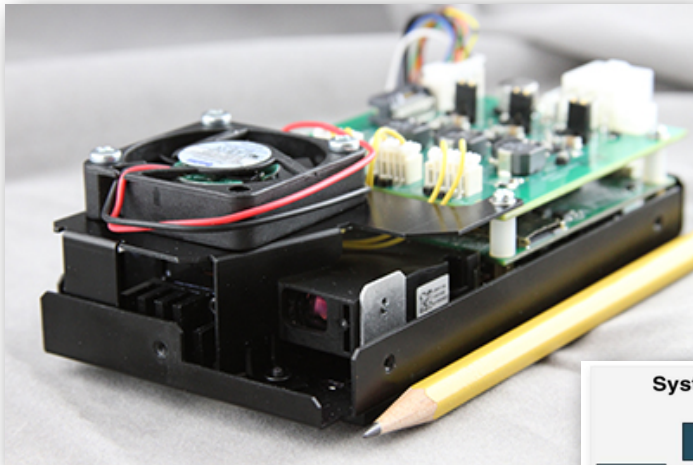
✦ **Custom Configuration Options**

Key Features:

✦ **0.3 WVGA DMD & Chipset by Texas Instruments**

✦ **Enclosure with fan & thermal management**

✦ **Enhanced RGB LED Light Engine**

✦ **Up to 100 lumens output with Keynote's True-White™**

✦ **Focus locking mechanism, mechanical mounting point**

✦ **Compatible with TI DLP LightCrafter and GUI.**

✦ **Full module and sub-module solutions available.**

The LC3000-PRO consists of four subsystems (see page 2 for block diagram):
Light engine • Driver board • System board • LED Driver board

The LC3000-PRO is a compelling and efficient solution for applications such as:
Small Industrial / Commercial Display Projector • Structure Lighting • Medical and Life Sciences
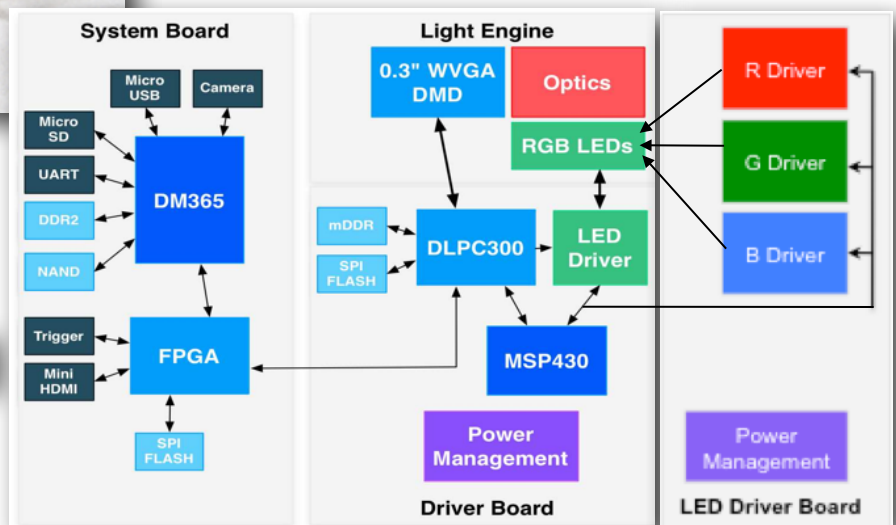
www.KeynotePhotonics.com

LC3000-PRO Industrial Projector

LC3000-PRO with cover removed

LC3000-PRO Block Diagram

LC3000-PRO TECH DETAILS ...

- Enhanced RGB LED light engine with up to 100L light output
- 3 channel, 5A driver supports other LED or Laser Light Sources
- High speed patterns using the native DLP3000 resolution (608 x 684)
- Up to 4000 Hz binary pattern rate
- Up to 120 Hz 8-bit grayscale pattern rate
- Display images or video up to WVGA resolution
- Configurable I/O trigger for synchronizing with cameras, sensors, etc
- DM365 embedded processor running embedded Linux
- 128MB NAND flash memory for pattern and sequence storage
- USB, Mini HDMI, UART interfaces
- Dimensions 132 mm x 72 mm x 46 mm