

LightCrafter 4500

DLP[®] 0.45" Evaluation Module

The DLP[®] LightCrafter 4500 is an evaluation module offered by Texas Instrument's and manufactured by Wintech Digital. The DLP[®] LightCrafter 4500 research and development platform offers new users with 150 lumens of optical brightness in a compact affordable package. With a suggested retail price of \$1,299, the DLP[®] LightCrafter 4500 provides system evaluators with a fully contained light engine including optics, electronics, DMD, thermal management, and a QT Library based GUI.

Utilizing a WXGA (912x1140) diamond pixel DMD, the DLP[®] LightCrafter 4500 provides 150 lumens of brightness via RGB LEDs. The optical architecture includes 100% offset optics and a contrast ratio of 1000:1. The effective focal length of the optics is 14mm with an image size of 33.3" @ 1m. The projection distance is 0.5m to infinity via an adjustable focus slider. Thermal management is provided by heat sinking and a fan.

The DLP[®] LightCrafter 4500 utilizes the Texas Instruments DLPC350 controller offering high frame rates in both streaming and static image display modes. The DLPC350 allows for 2,880Hz

binary streaming frames per second and 120Hz 8-bit grayscale streaming frames per second over mini-HDMI. Predetermined patterns stored in the 32MB onboard memory provide up to 4,255Hz binary and 120Hz 8-bit grayscale frames per second. The DMD driver PCB provides a mini-HDMI connection for video input, a USB connection for system control, FPD Link for video input, and PWM outputs for simultaneous RGB LED operation. A PandaBoard interface is included for connection to the optional PandaBoard ES platform. Two camera input and two camera output triggers are included.

The LightCrafter 4500 is available for purchase through Texas Instruments eStore, Wintech Digital, and also various distributors. Complete documentation on the LightCrafter 4500 is available through www.ti.com.

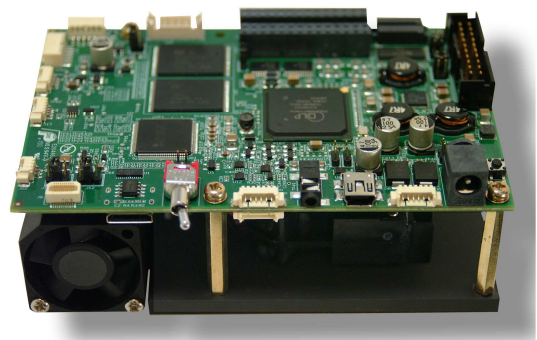
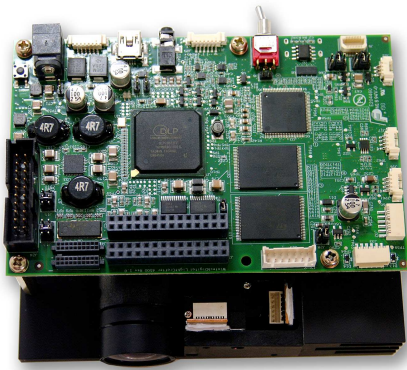


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System Highlights

- \$1,299 suggested retail
- WXGA (912x1140) diamond pixel DMD
- Up to 150 lumens
- Streaming and static image display modes
- Static image display up to 4,255Hz or 120Hz @ 8-bit grayscale
- Streaming image display up to 2,880Hz or 120Hz @ 8-bit grayscale
- 122mm x 115mm x 48mm
- PandaBoard 4500 compatible
- Mini-HDMI, USB, UART, and FPD Link interfaces
- Simultaneous RGB LED operation
- 32MB flash for pattern storage
- USB-based API and host GUI



Wintech Digital Systems Technology Corporation is a Texas Instrument's DLP[®] Authorized Design House with locations in both China and the US. We are a full service engineering company with more than two dozen engineers that can design and manufacture all aspects of DLP[®] systems including electronics, optics, thermal management, laser light sources, and software.

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