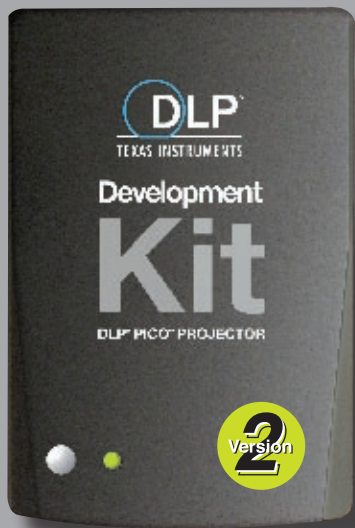
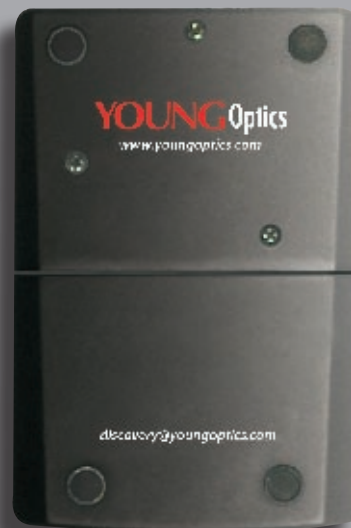


It may be small,  
but the DLP Pico projector  
packs a powerful image  
that brings new meaning  
to projector flexibility.



Actual size.

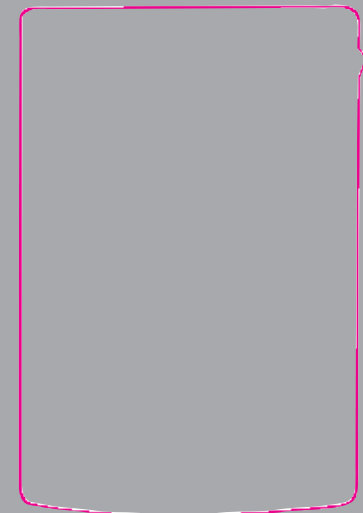


Actual size.



## Development Kit

DLP® PICO™ PROJECTOR  
Version 2.0



Actual size.



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An even easier way  
to integrate projection  
technology into  
new applications.



## The DLP® Pico™ Projector Development Kit Version 2.0: A way to incorporate embedded video, portable projection and structured light into your products.

The development kit uses the DLP 0.17 HVGA Chipset available from TI. This Chipset is a miniaturized version of the popular DLP technology found in today's best projectors on the market. Using microscopic mirrors, TI's DLP1700 is a digitally controlled spatial light modulator (SLM) able to create binary light patterns with speed, precision, and efficiency for a multitude of light processing applications.

Utilizing an efficient design with ultra-low power consumption, coupled with the robust DLP1700, you can expedite development and add projection or spatial light modulation into a vast array of products.

### The Development Kit for the DLP Pico Projector includes:

- DLP Pico projection device
- Power supply cable (operates from 110V – 220V)
- Video cable with I<sup>2</sup>C capability
- HDMI to DVI adapter

### Features and Benefits

- **Direct Connection to a PC \*New\***
  - > Connects to a DVI port for out-of-box operation
- **Sync Signal Output \*New\***
  - > Connects to a sensor (e.g. camera) to enable structured lighting applications
- **Selectable DMD Pattern Timing \*New\***
  - > Enables 50Hz, 60Hz video frame rates & 120Hz, 180Hz, 240Hz, 480Hz, 1200Hz, 1440Hz, 2400Hz DMD pattern rates
- **Auxiliary Connector \*New\***
  - > Provides direct and easy access to the I<sup>2</sup>C bus
- **Standard Type C HDMI connector \*New\***
  - > Pico Projector now uses a standard HDMI pin out
- **DVI-D Interface to Beagle Board & other EVMs**
  - > Expedites development
- **Dimensions: 44.8 x 67.4 x 14.2 mm<sup>3</sup>**
  - > Miniature form factor integrates into practically any device

## Reliability is the key to success.

With nearly 20 million DLP subsystems shipped over the last 10 years, DLP products offer incredible reliability and proven performance. With unmatched switching speed measured in mere microseconds, DLP technology is more than 1,000 times faster than any other imaging technology. This makes it suitable for a wide range of applications from imaging to structured lighting and more. The robust DLP chipset is the cornerstone for successful new innovations and is paving the way to the next generation of projection implementation.

### Technical Specifications

DLP1700 Resolution	0.17-inch HVGA
Brightness	10 lumens
Contrast Ratio	1000:1
Light Source	Solid-state 3 LED
Video Input	DVI-D RGB888, VGA 50Hz or 60Hz
Dimensions	44.8 x 67.4 x 14.2 mm <sup>3</sup>

## Applications start with imagination.

The DLP Pico Projector Development Kit enables solutions for portable displays, embedded video and high speed, synchronized structured light patterns.



Perhaps the best application for the DLP 0.17 HVGA Chipset is yet unrealized. That's the real value of this innovative development kit.

It gives you the power to step outside of the expected to deliver something entirely new.

Take the next step to projection innovation. To learn more about how you can get started with the DLP Pico Projector Development Kit, visit [www.ti.com/mems](http://www.ti.com/mems) or <https://community.ti.com>.

Fill a hole  
in the market  
with a new projection  
innovation.