

TI DLP® Products

Enabling Innovations

Ane Sacks

TI Vice President & DLP General Manager

July 2018

DLP Technology millions of mirrors



An industry leader in digital cinema, projection, and MEMS

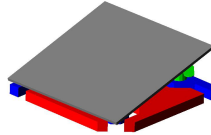
Extremely flexible and programmable light management



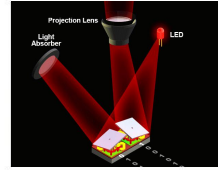
DMD
Digital micromirror device



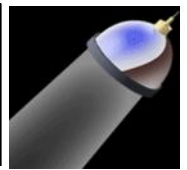
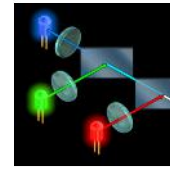
Array of Mirrors (5.4 μ m TRP)



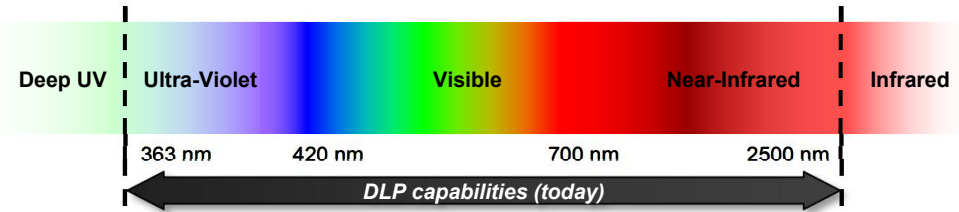
that digitally switches...



...to steer light



Works with LED, lasers and lamps



DLP technology Evolution

DLP Cinema® Products – Technology leader



Credit: Michael Yada / ©A.M.P.A.S.

DLP® Pico™ Products – Technology leader



Smart TV



Tablets



Wearable Displays

Automotive qualified HUD and High Resolution Headlight



Top player in Industrial
Lithography, 3D Machine Vision, 3D Printing



3D Scanning, 3D Printing
Industrial performance in pico form factors



DLP products application areas

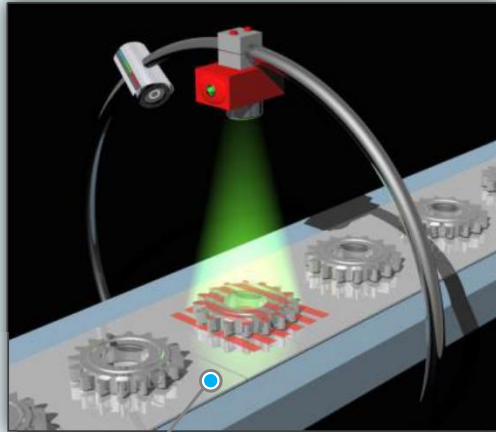
Display



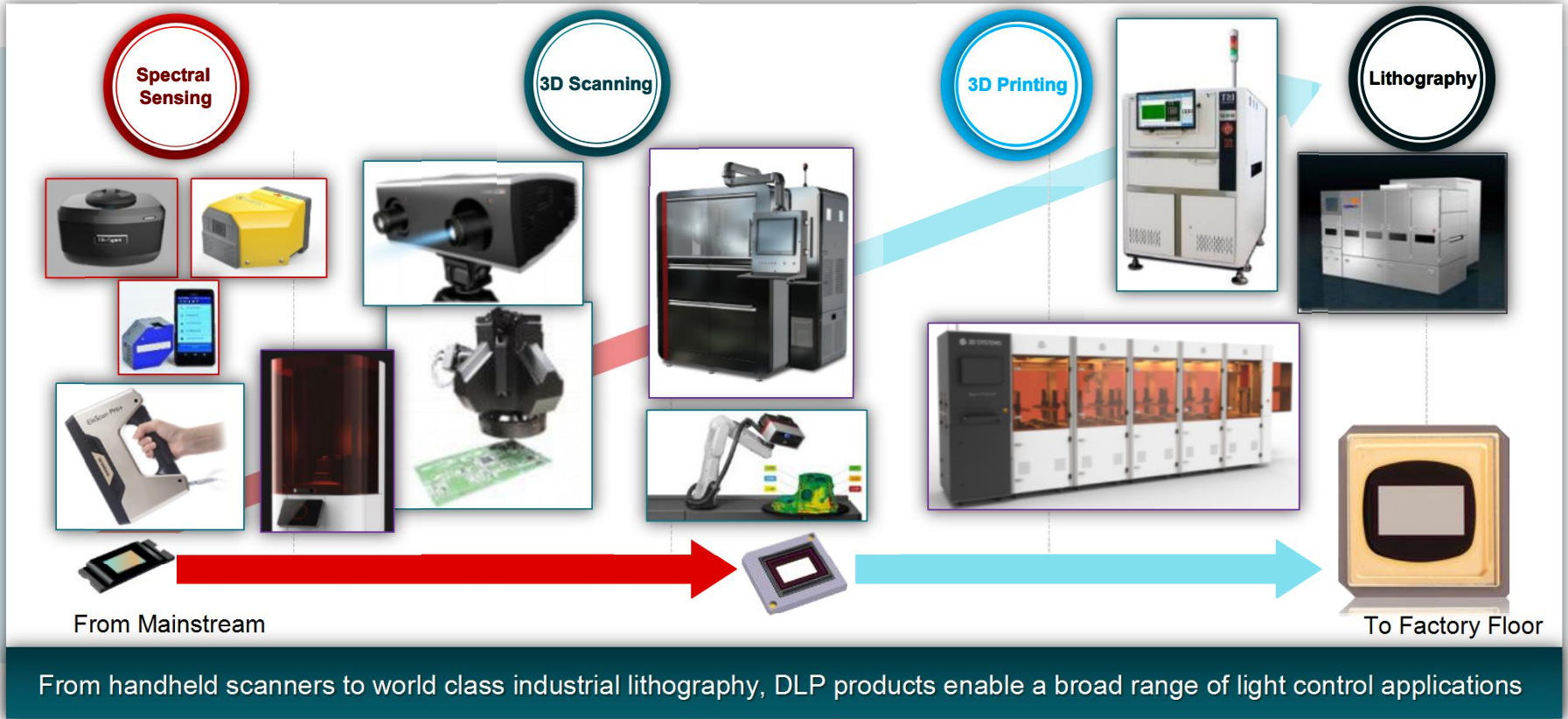
Automotive



Light Control



DLP Products light control applications



From handheld scanners to world class industrial lithography, DLP products enable a broad range of light control applications

Bringing 3D printers and scanners mainstream

Capture



Create



Print



Micron-level accuracy, 5X faster than existing 3D printing technologies

DLP technology **automotive qualified**

Interior Displays Augmented Reality HUD



Exterior Lighting High Resolution Headlight



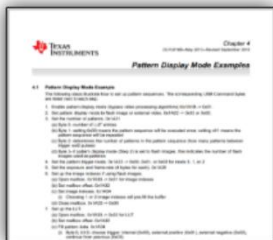
- Automotive qualified and shipping in volume
- Extended operating temp (-40 to 105 °C)
- High Resolution > 1.3M pixels
- Bright & efficient imaging
- Works with any light source

Fast time to market

Silicon, tools, support and robust ecosystem

TI.com for technical content

- Evaluation modules & kits
- Software, firmware and GUIs
- Reference designs
- Application notes



Broad portfolio and design support

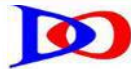
- Chipsets for display applications ranging from nHD to 4K UHD
- TI E2E Community (Deyi) community support
- Direct support from TI applications engineers
- End equipment-specific reference designs in the TI Designs library
- 50+ ecosystem partners

Strong ecosystem

Large number of companies committed to DLP technology



- Evaluation modules
- Optical engines
- System Integration
- Optical design
- Hardware
- Software



DLP Products in summary

Display

DLP Technology enables a breadth of display products, from smallest to brightest

Automotive

Automotive-qualified HUD and high resolution headlight

Light Control

Accelerating light control applications from mainstream to factory floor

DLP Products in summary



**Start your design today at
www.ti.com.cn/dlp**

Thank You

谢谢