MICLEDI microdisplays

EPIC ONLINE EVENT

DEC. 13, 2021
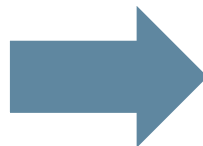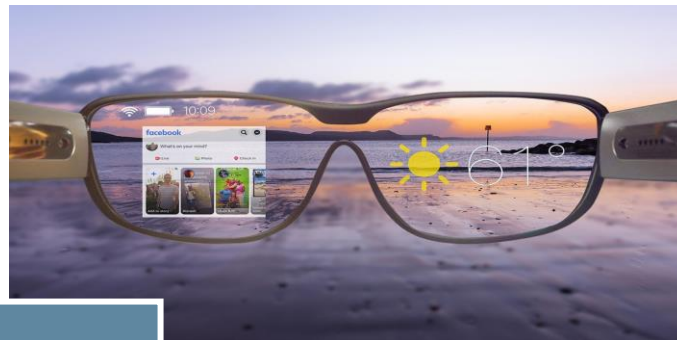
AR MARKET DEVELOPMENT

Today: Large, Heavy, Expensive, Poor Image

Tomorrow: Compact, Attractive, Low-cost, Low Power, Beautiful Image

The big elephant in the room. How to solve:

- Accommodation and Convergence
- Occlusion

The dream

Cfr. MagicLeap

The display performance (brightness, size, power consumption, image quality, resolution) is one of the key bottlenecks for wider consumer AR adoption.

- \> FHD with <3µm pitch
- 1Mnits D65 white light
- Narrow beam shape for waveguide optics
- High efficiency → low power consumption
- Highest image quality in advanced node CMOS
- price at > xMunit volumes

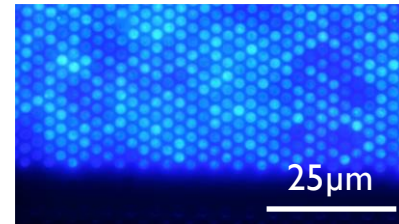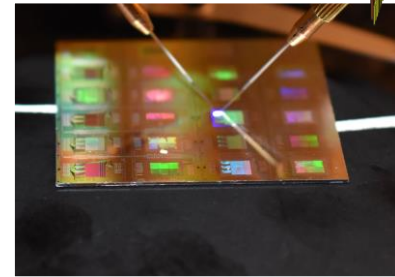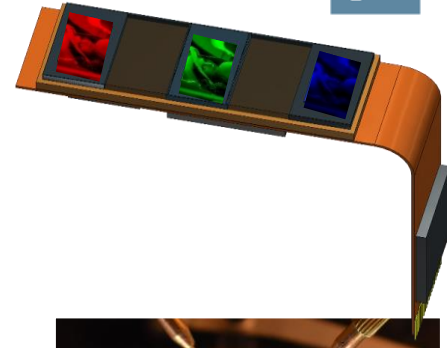**micledi**

From 35,000 feet…

Company: MICLEDI microdisplays – founded in 2019

Technology: IMEC – technology partner well before 2019

Product: microLED Display Modules (light engines)

Business model: B2B Integrated Circuit Component Sales

Key Attributes: Size, Resolution, Power Efficiency, Image Quality

Financials: Pre-production, Early Revenue

We are
- A Fabless 'Light Engine Module' Product Company focused on one of the key enabling components for the growing AR Market

We Have
- Unique access to a world class development infrastructure (300mm) – needed to achieve future AR
- Patent protected LED design and integration technology

25µm

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BUSINESS MODEL: A FABLESS SUPPLIER OF FINISHED DISPLAYS

Collaboration opportunity across the supply chain (e.g., epi-growth, foundry, packaging, test, design, metrology)

Display Product Design

III-V Epi wafer

300mm CMOS foundry

Testing house

Packaging house

Calibration and product testing

Subcontracting

Subcontracting

Subcontracting

CMOS ASIC and III-V Epi µLED Design

Si-CMOS Logic Wafer

Display Modules Plug and play for Customer

Uniqueness: Focus on product Design and Calibration + Subcontract manufacturing

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