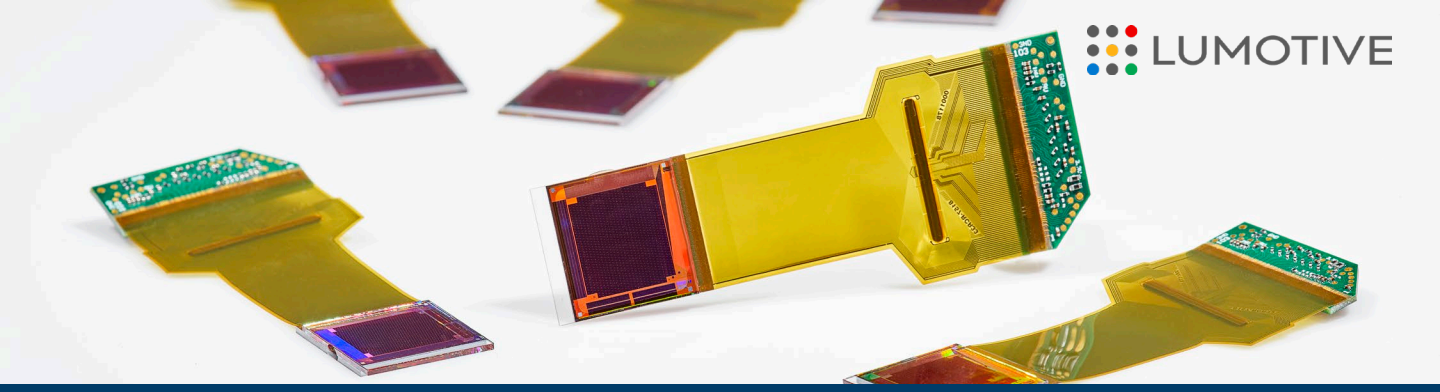
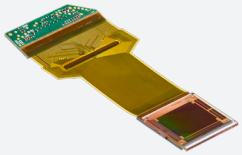
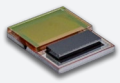


LIGHT CONTROL METASURFACE (LCM™) MODULES



LM10

Availability: In production
Active aperture: 11 × 9 mm
Angular step: 0.4°
Steering FoV: 160° (>180° with spreading)
Optical efficiency: 45%
Response time: 40 µs, any angle
Driver & control: I²C + LVDS, external driver



LS20

Availability: Q1 2027
Active aperture: 5.6 × 4.0 mm
Angular step: 0.1°
Steering FoV: 160° (>180° with spreading)
Optical efficiency: 45%
Response time: 40 µs, any angle
Driver & control: I²C, integrated ASIC

Enabling the Future of 3D Sensing

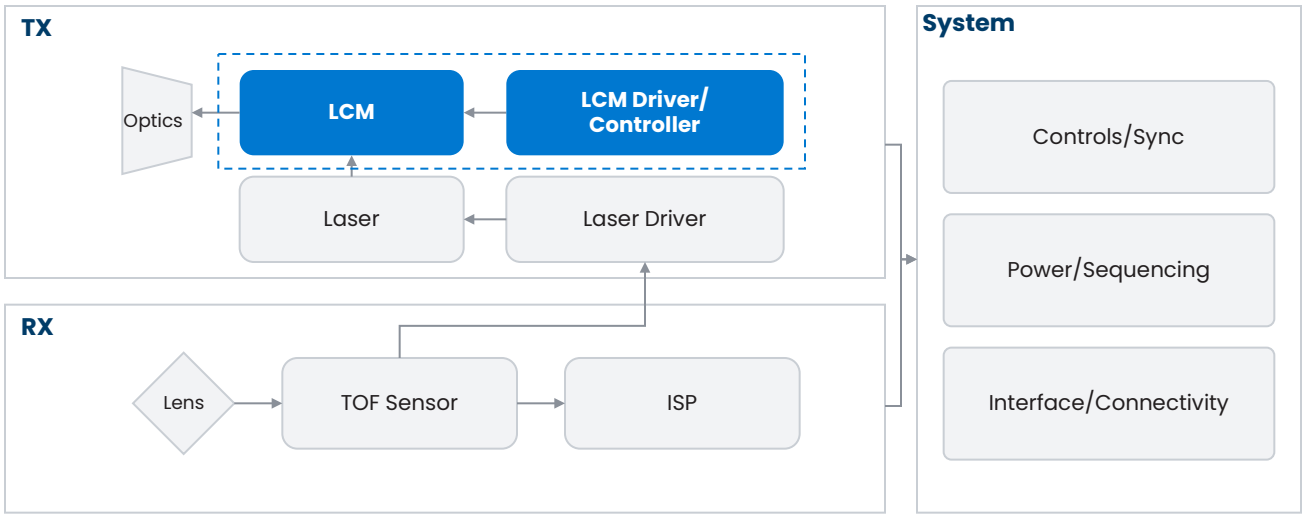
Key Features

- True solid-state, zero-inertia beam steering
- Software-definable, random-access scan patterns
- Beam width control enabling dynamic range performance
- Compatible with edge emitters and VCSELs at 910 nm



TX10 transmit module
LM10 integrated with laser and driver

WHERE THE LCM SITS IN THE LIDAR SYSTEM



LUMOTIVE

DEVELOPMENT KITS



M30

Gpixel iToF Receiver

Max Range: 10–25 m
FoV: 120° × 90°
Res: 0.38° × 0.38°
Interface: GigE



NM120

Adaps dToF Receiver

Max Range: 72 m
FoV: 120° × 90°
Res: 0.5° × 0.5°
Interface: GigE



Leopard Sirius Max

onsemi iToF Receiver

Max Range: 30 m
FoV: 140° × 105°
Res: 0.2° × 0.2°
Interface: GMSL2



onsemi AF0130 EVK

onsemi iToF Receiver

Max Range: 30 m
FoV: 140° × 105°
Res: 0.2° × 0.2°
Interface: USB

Focus on what matters
Adaptive ROI directs sensing toward the objects and zones that need more detail or faster updates.

Reduce complexity
One programmable device covers several optical functions with fewer sensors.

Adapt in software
Change scan pattern, field of view, range, resolution and frame rate without new hardware.

Built to scale
Solid-state operation, manufactured through established semiconductor processes.

APPLICATIONS



Robotics & Humanoids

Adaptive sensing for robots working around people and changing layouts.

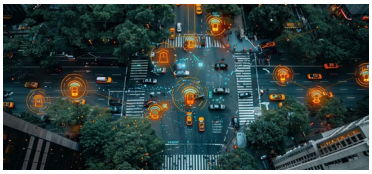
- AMRs and mobile robots
- Humanoids
- Industrial robotics



Mobility & Heavy Equipment

Wide-field sensing for vehicles and machines in dynamic environments.

- Automotive and robotaxi
- Trucking
- Heavy equipment



Smart Infrastructure

Programmable sensing for infrastructure and public spaces.

- Traffic and parking
- Surveillance
- Perimeter monitoring

Contact us for more details: www.lumotive.com/contact/

Lumotive is pioneering the era of programmable optics, where for the first time, light is controlled as intelligently and flexibly as software. Our patented Light Control Metasurface (LCM™) transforms photonics into a digital platform, unlocking breakthroughs in sensing, optical switching, and communication. With more than 160 patents and growing commercial traction, Lumotive is delivering the world's first digital platform for light — and redefining what's possible in the optical age.

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