CES 2025 - Automotive

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Several models of Autonomous vehicles

- Holon, ZOOX
- Opportunities in IR LED applications in Cameras and LiDAR





Several models of Autonomous vehicles



Opportunities in IR LED applications in Cameras and LiDAR





Several models of Autonomous vehicles

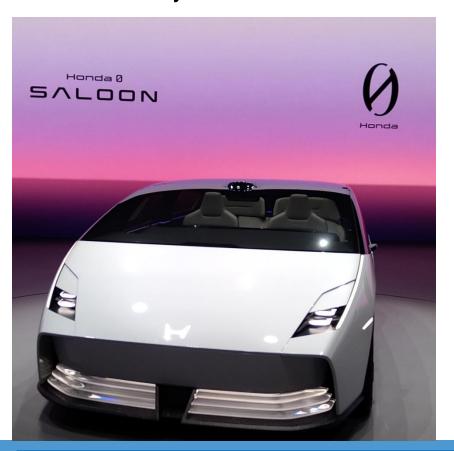
- Waymo
- Opportunities in IR LED applications in Cameras and LiDAR





Honda

- Honda had two concept Evs on display
- Target SOP 2028
- Autonomy functions to be included









LG Innotec

Nexslide and LG Camera solutions for AVs







OP Mobility



- Discussions with Dr. Rosenauer, L Meister and Z Hu
- Strong interest in our CSP Mini LEDs, will f-up with a presentation
- Full vehicle rear mock-up with Everlight mini RED CSP LEDs on display, showcasing animation for different functions





OP Mobility

- Pmobility
- Rivian Headlamps, featuring also Everlight LEDs on DRL function
- Also ADB, front DRL/Turn Light pipe indicator and RGB Grille displays on booth





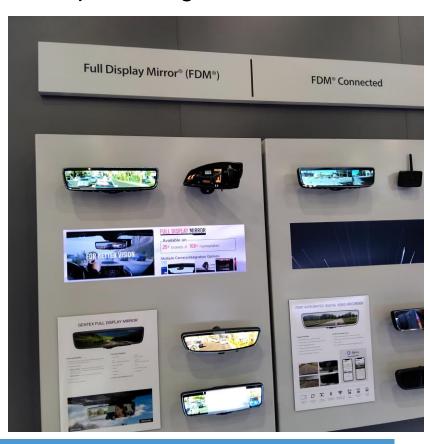


Gentex



- Wide range of Cameras and Display mirrors Internal and External
- Opportunities for TFT, IR LEDs and Ambient Light Sensors
- Discussion with Dir of Engineering for a f-up meeting







Gentex



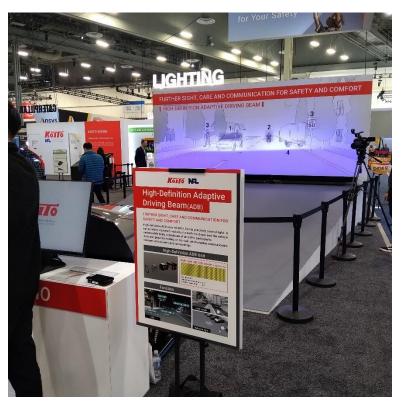


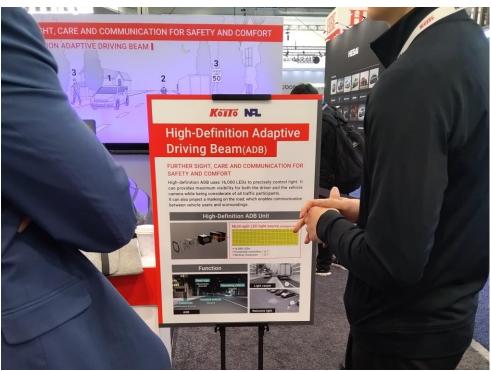


NAL - Koito



- NAL booth was exclusively focused on forward lighting and LiDAR applications
- ADB functions were showcased on two full-size setups: 18 Lit segments and 16k lit segments (Nichia device)



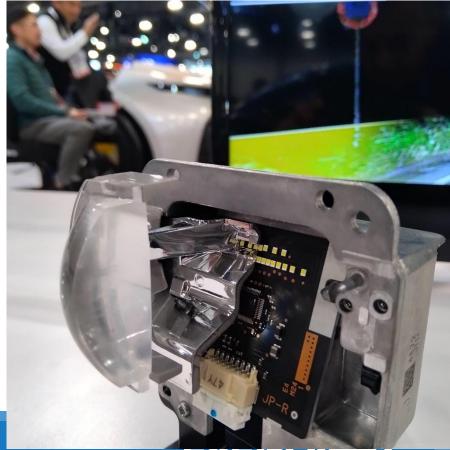


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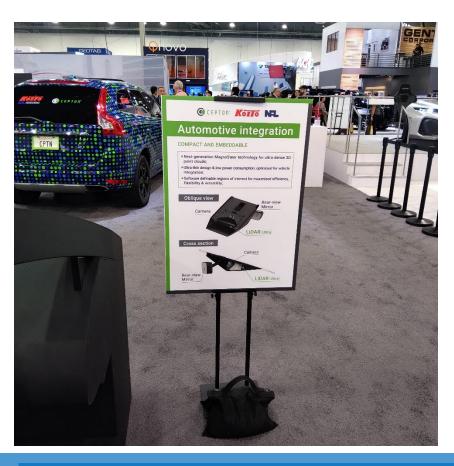


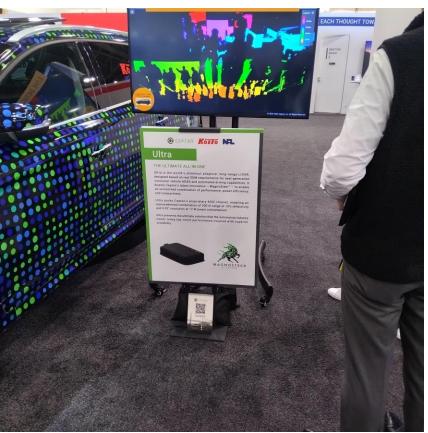


NAL - Koito



- NAL recently acquired California based LiDAR company Cepton
- They had vehicle mocked-up with LiDAR units







Magna



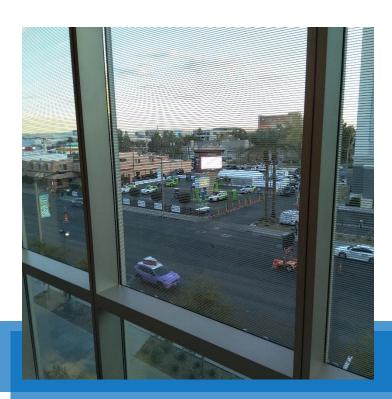
- Magna booth was bare bones, with no displays at all
- Mainly a meeting place for inviting their customers



Valeo



- Valeo had two off-site booth setup in parking lots.
- "Software defined vehicle", LiDAR and "Electrification" were main themes
- Test track at booth was used to display autonomy features and LiDAR, with a L3 (level 3) autonomy demo vehicle





Valeo



Rear lighting with OLED

Front grille integrating 224 RGB LEDs for Welcoming and EV charging functions

Valeo Thinbilite - 2 ultra-thin (15mm x 200), dual-function, adaptive

headlamps (ADB)





Augumented Panovision = Pillar to Pillar next gen displays



Scout (VW's EV subsidiary)



New SUV and Truck on display, SOP 2027







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New SUV and Truck on display, SOP 2027



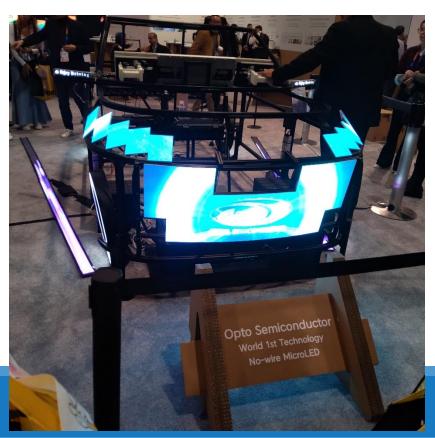


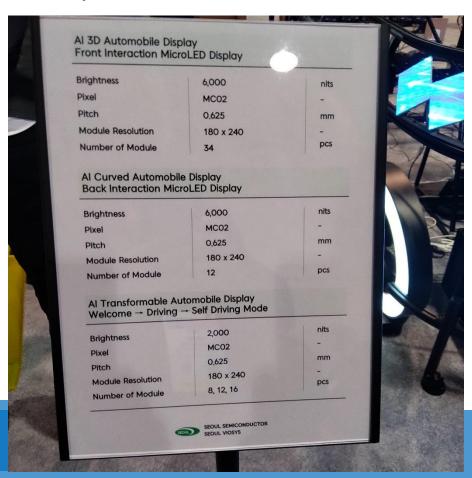




SEOUL

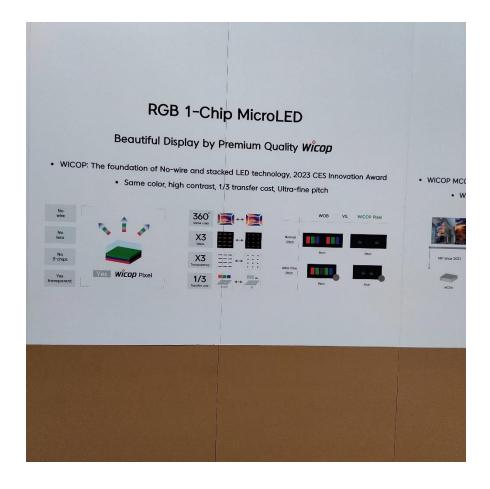
- Very large booth
- Noted were new 1515 type LEDs
- Large panel stressing SSC IP legacy and how they protect it in courts
- Several micro LED displays, impressive performance
- World first "no-wire" micro LEDs





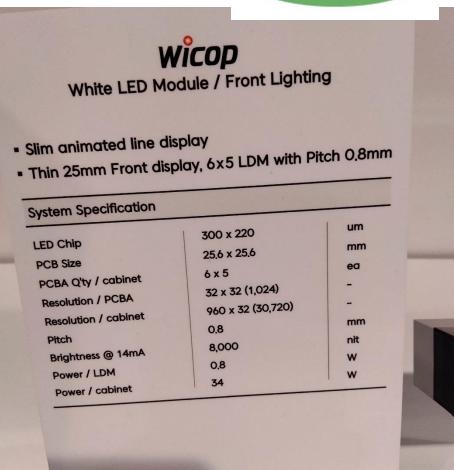


















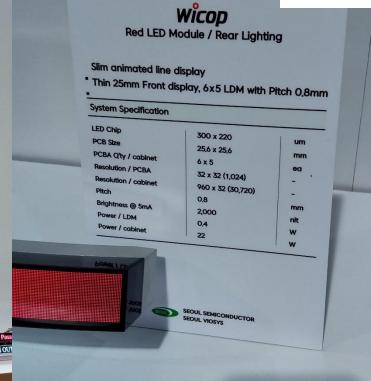


Global Leader in Display Modules

6 We love the earth

Wicop Pixel RGB 1-chip with real black, transparent, and ultra-fine pitch for V2X communication • Wicop mini Expanding the possibilities of diverse displays with WICOP on board technology

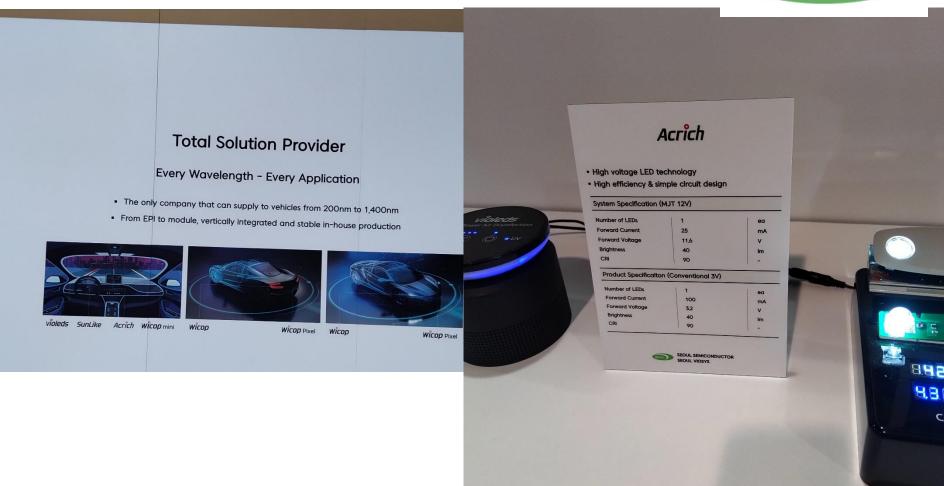




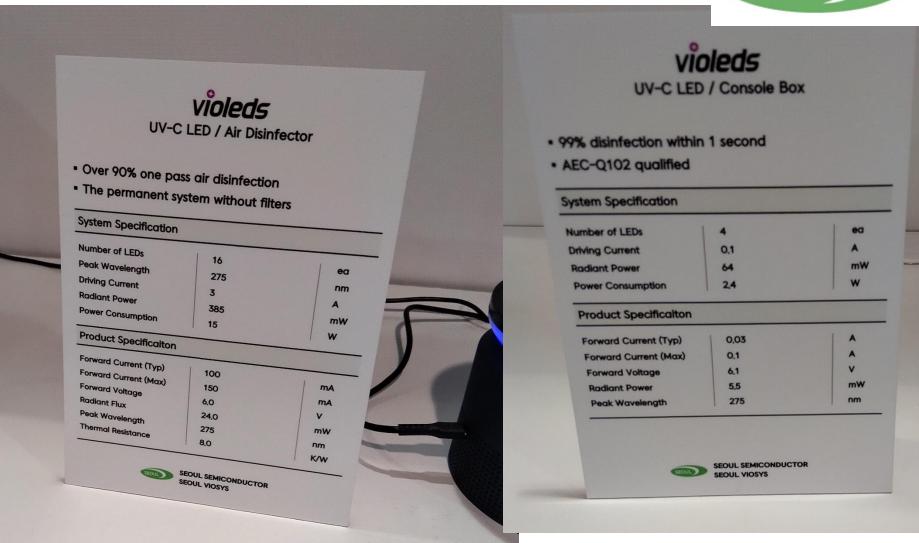
Charge Plug is Connected, Charging...

cation

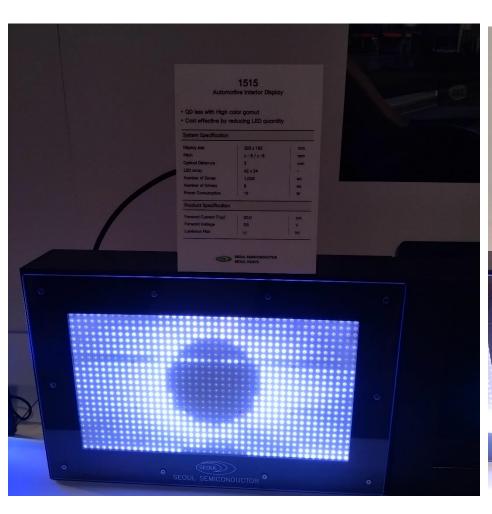
















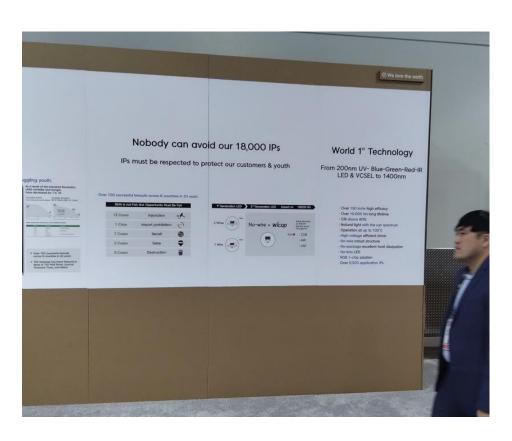








Large panel stressing SSC IP legacy and how they protect it in courts!







Ams Osram



- ams OSRAM's OSIRE® E3731i LED and Stand-Alone Intelligent Driver (SAID)
 use OSP license-free protocol to connect color LEDs, sensors and
 microcontrollers.
- EVIYOS HD 25 source designed for automotive high-resolution dynamic forward lighting Adaptive Driving Beam (ADB) headlights EVIYOS HD 25 features 25,600 pixels that are automatically driven by a dedicated ASIC, allowing the projection of high-resolution images and alerts on the road, as well as personalized messages.





AUO (+BHTC)



- AUO is collaborating with Sony Honda Mobility to showcase world's first
 Micro LED Media Bar Solution
- features a High contrast, brightness, resolution, and ultra-wide viewing angle, showing charging status and vehicle details as displaying personalized content







CES 2025

Aptera full-solar vehicle demo drives around CES



Conclusions

- AM market still moving forward on Autonomous driving and AVs
- This means upcoming opportunities in Car-to-Pedestrian communications, exterior mounted displays using Mini and Micro LEDs
- AVs employ various types of Cameras, meaning AM grade IR LEDs will see increased demand
- Larger displays represent increased demand in TFT LEDs

Thank You for Your Attention!

