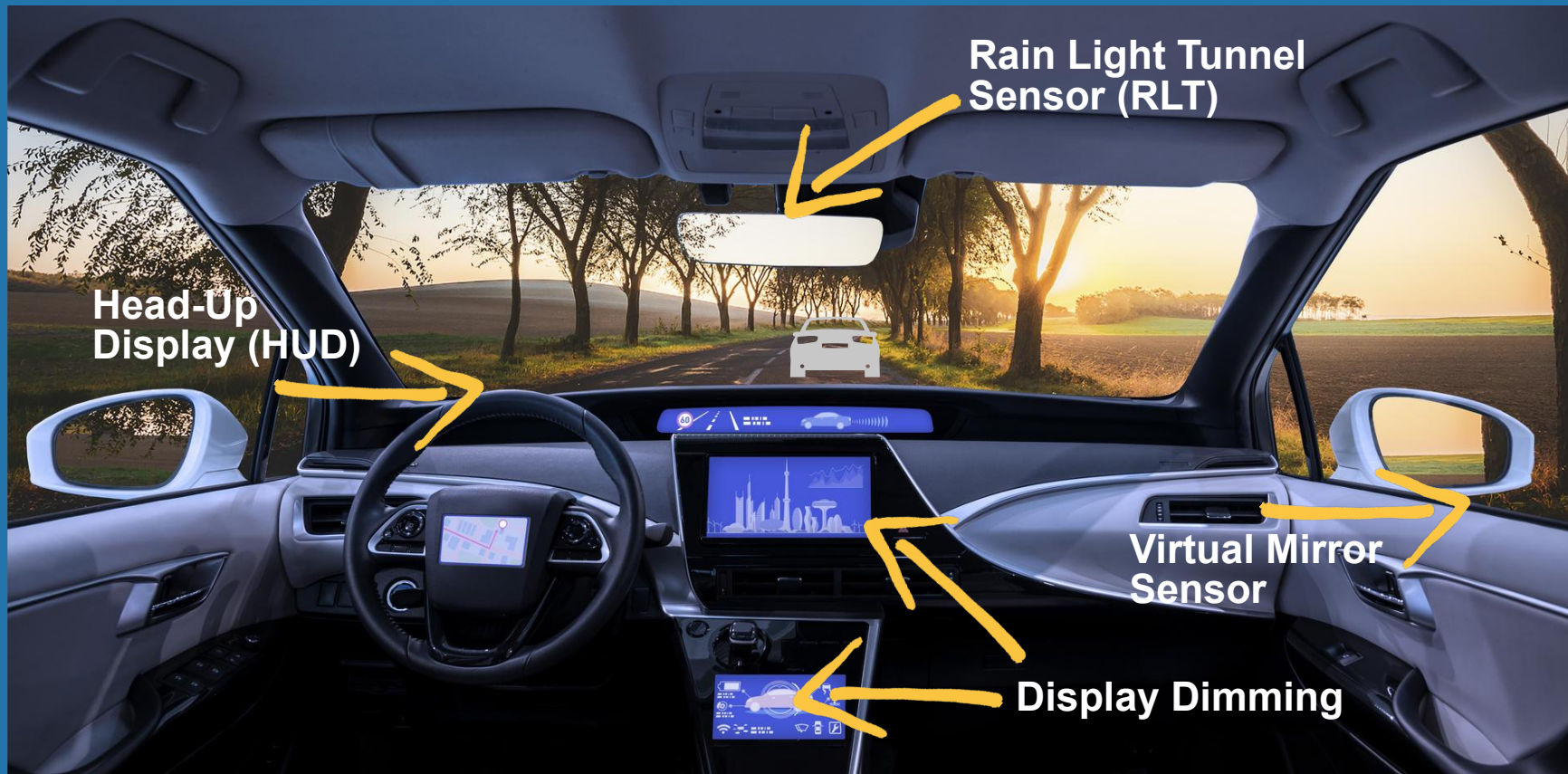


# VEML6031X00

Light Sensing For Automotive Applications

## You're In The Driver's Seat



# KEY BENEFITS

- **Robust Package**  
AEC-Q100 qualified FAM package with opaque side walls
- **Highly Accurate**  
Human eye like response
- **Temperature Compensated**  
Stable output across a wide range of temperatures
- **IR Channel**  
Separate IR channel allows for light type detection

- **Low Lux Error**  
Less than 8 % tolerance across different light sources
- **High Dynamic Range**  
Can be used both under very dark cover glass and in full sunlight
- **Design Flexibility**  
Integration time and gain and programmable to meet specific application needs



## HUD

Adjust Intensity

Opaque side walls and a small package design lead to an excellent signal to noise ratio. This allows for accurate intensity adjustment in a HUD system with flexible placement.



## RLT

Sunlight / Tunnel Sensor

High dynamic range and linearity allow the sensor to be exposed to sunlight without saturation.



# Virtual Mirror Sensor

Fast Response Times

Short integration time allows displays to respond to fast changing light conditions, for example, tree-lined streets. This allows the display to always look accurate.



# Display Dimming

High Sensitivity

The sensor functions even under dark, highly attenuating glass due to its high sensitivity and low dark offset.

