Active Privacy

Our solution effectively **limits driver distractions** from passenger cockpit content.

Market Drivers

- Digital cockpit experience extends to the passenger
- Visteon solution manages Driver Distraction

Our Solution

- Market-leading privacy performance
- Power is 50-75% lower than competing solutions
- Viewing angle is tunable to any vehicle configuration

Features & Benefits

- Solutions for OLED and TFT applications
- Compatible with system-level approaches for managing content
- Scalable for any size, aspect ratio, resolution

Key Technologies

- Visteon developed technology
- Patent pending

TrueColor Image Enhancement

Display content **dynamically adjusts to improve legibility** and overcome unwanted brightness and glare.

Visteon

Market Drivers

- New display integrations have higher exposure to bright light and glare conditions
- Regulation drives additional safety content for displays

Our Solution

- A proprietary solution which dynamically adjusts the image to improve brightness, contrast, color, and more
- Overcomes brightness and glare to improve legibility of safety information
- TrueColor Image Enhancement is a self-contained, hardware/software based solution for Displays

Features & Benefits

- Display image quality is retained and refined across the range of light conditions
- Operation is seamless, continuous and instantaneous
- Brand design and fine details remain visible in bright light
- Reduced power usage

Key Technologies

- Visteon developed technology | Proprietary image processing algorithm

AI Powered Low Light Enhancement (LLE)

Enhanced **low light image quality** includes optimized color and brightness.

Market Trend

- Traditional LLE methods (gamma correction and white balance) generate image noise and color shifts

Our Solution

- Visteon uses artificial intelligence algorithms to improve the image quality of camera feeds in low light conditions

- Neural network modeling optimizes the color and brightness of the camera feed

Features & Benefits

- Image has substantial reduction of noise

- Image is more vivid and true-color

Key Technologies

- Artificial intelligence and neural network modeling

Visteon Local Dimming

A fully **integrated system** that elevates lighting algorithms to deliver an **improved display contrast ratio**.

Market Drivers

- Market seeks High Perceptual Quality displays with reduced power

- Balancing system cost, contrast improvement and cross-talk/halo management

Our Solution

- A combined backlight and algorithm system solution that delivers an improved display contrast ratio

  Visteon is uniquely able to develop, integrate, and optimize all elements of image processing/algorithm solutions in-house at Visteon. Others typically outsource key functions

Features & Benefits

- Visteon Full Array Local Dimming Technology

- Improved contrast, power consumption, and halo

- Significant power benefits can be realized

Key Technologies

- Innovative thermal management strategy

- Additional power benefits can be realized when combined with TrueColor

Avatar Cockpit

Reduce driver distraction and increase driver engagement via **virtual holographic assistant.**

Market Drivers

- Digital assistants are increasingly accepted and expected in the consumer electronics market

- How will assistant technologies be integrated with the HMI experience?

Our Solution

- Visteon is exploring a cockpit concept which integrates a virtual assistant via digital holography

Features & Benefits

- Reduced driver distraction improves safety

- Improved trust between the driver and the system

- Assistant engine/platform agnostic

Key Technologies

- Visteon in-house developed holographic display technology

Visteon®

microZone™

A **high perceptual quality display** solution based on LCD technology with **1000X more zones** than Local dimming.

Market Drivers

- A competitive LCD-based high perceptual quality solution, with OLED level of performance

Our Solution

- High resolution local dimming solution, with 1000X more zones than Local dimming
- Visteon developed a high perceptual quality display solution based on LCD technology to significantly reduce power requirements

Features & Benefits

- Better contrast than FALD
- No lifetime reliability concerns

Key Technologies

- Visteon developed technology
- Patent granted for innovative power management solution
- First to market in 2024