SURROUND VIEW
CAMERA SYSTEM

Delivering 360° visibility for safer driving, effortless parking, and enhanced fleet efficiency.

Our **Surround View Camera System** provides a seamless **360-degree perspective** around the vehicle, reducing **blind spots** and improving safety in all driving conditions. For passenger cars, it enables effortless parking and maneuvering in tight spaces, while for commercial vehicles it enhances fleet efficiency, driver awareness, and operational safety.

Key Features

- **360° surround view eliminating blind spots** for safer driving & parking.

- **Advanced object & pedestrian detection** with real-time driver alerts.

- **High dynamic range (120 dB HDR) and LED flicker-free imaging** for crystal-clear visuals in all conditions.

- **Seamless stitching & distortion correction** for natural, accurate views.

- **Real-time overlay guidance and customizable 360° perspectives.**

- Complete solution package: **ECU + up to 6 cameras,** ready for **OEM & aftermarket integration**.

- Fully compliant with the latest **EU GSRII and US FMVSS 111** safety regulations.

- Multimedia-capable platform supporting **vehicle information, Bluetooth/Wi-Fi connectivity, and in-car entertainment.**

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TECHNICAL DETAILS CAMERA

Camera Resolution: 1.3 MP

Supply Voltage: 9V-16V

Power Consumption: Max 2W (Heater Enabled)

Connector: Fakra Code-Z

IP Code: Lens Side: IP6K9K, **Connector Side:** IP6K7K

Body Dimensions: 25 mm x 25 mm x 40 mm with connector

Operation Temperature Range: -40°C to +85°C

Safety: ASIL QM

Field of View: 190° HFOV

TECHNICAL DETAILS ECU

Base Board: IMX8

Form Factor & Dimension: SMARC 2.1 standard, SimpleFlex enclosure board, compact 146 x 80 mm size

Display & Video Interfaces: HDMI or Display Port output (some models: DisplayPort++ or µHDMI), USB Type-C (with DisplayPort support), Display connection via LVDS, eDP, or MIPI DSI

Networking & Communication: 2 x Gigabit Ethernet RJ45 (with LEDs), Optional Wi-Fi / Bluetooth / NFC module (antenna connection supported)

Serial Communication & I/O: 4 x UART (configurable as TTL, RS-232, or RS-485, 1 x CAN 2.0B + optional galvanically isolated CAN 2.0B, SPI / eSPI and at least 12 x GPIO Fan connection and PWM control

Camera & Audio Interfaces: MIPI CSI-2 camera port, HD or I^{2}S audio codec, Optional amplifier: stereo 2 x 2.5 W or mono 1 W

TECHNICAL DETAILS MONITOR

Resolution & Size: IMX8

Touch Capability: SMARC 2.1 standard, SimpleFlex enclosure board, compact 146*80 mm size

Display Functionality: HDMI or Display Port output (some models: DisplayPort++ or µHDMI), USB Type-C (with DisplayPort support), Display connection via LVDS, eDP, or MIPI DSI

Zoom Functionality: 2 x Gigabit Ethernet RJ45 (with LEDs), Optional Wi-Fi / Bluetooth / NFC module (antenna connection supported)

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