

Camera Interface Variants

Ethernet



GMSL2



Wi-Fi + Antenna



Reflection-controlled optical design

Open M12 lens path + black IR-pass filter region for 4 x 850 nm LEDs with matte-black light tunnels to reduce IR leakage, haze and flare.

Technical Specification Summary

Image resolution	Full HD 2MP class, 1920 x 1080 active imaging target
Image sensor type	CMOS image sensor architecture
Shutter type	Rolling shutter
Pixel / bit depth	RAW 10-bit / 12-bit sensor data path support; output configurable
Frame rate target	Up to 30 fps streaming target; sensor configuration customizable
Lens interface	M12 lens mount; lens / FOV selected based on application requirement
Day / night support	850 nm IR illumination with black IR-pass optical filter region
IR architecture	4 x IR LED positions with dedicated hollow pipes / light tunnels
Mechanical enclosure	Compact aluminium enclosure with front optical filter insert
Interface variants	GMSL2, Ethernet, and Wi-Fi with external antenna option
Software support	Firmware, streaming pipeline, ISP tuning support and AI integration
Industries supported	Automotive, Locomotive, Industrial

MotionIQ collaboration areas

Camera sensor with ISP | Perception stack | Surround view systems | Edge AI camera integration | Data annotation and dataset preparation