STATE-OF-THE-ART

Camera - F/S

FEATURES

Robust enclosure for harsh enviroments

190° ± 3% Horizontal FoV

150° ± 3% Vertical FoV

High definition

Full colour range

Integrated heater



Versatility, scalability, robustness

CPAC Systems' Camera - F/S delivers high image clarity and resolution in a robust, durable design developed for automotive and vocational equipment applications. Engineered for demanding operating environments, the camera provides high-definition video output that captures critical details to support improved efficiency and safety.

- High-Resolution Imaging: Provides HD video quality at 1280 × 960 resolution for clear and detailed visual monitoring.
- Rugged Design: Built for harsh environments, the camera is dustproof, waterproof to IP6K9K, and shock-resistant, ensuring reliable operation in demanding conditions.
- Wide Field of View: Equipped with a wide-angle lens to monitor a broad area, reduce blind spots, and improve overall visibility around the vehicle or machine.
- Real-Time Video Transmission: Using GMSL (Gigabit Multimedia Serial Link) technology, the camera delivers high-speed video transmission with low latency for real-time monitoring and rapid response.
- Enhanced Safety: High-quality imaging supports hazard detection and equipment monitoring, contributing to safer operation in demanding work environments.
- Low Power Consumption: Designed for energy-efficient operation, making it suitable for battery-powered equipment and extended use.

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Integrated heater

The heater function is activated 10 seconds after the camera is powered on and automatically deactivates after 10 minutes. Maximum power consumption is 0.33 W. The heater is controlled by the MCU using PWM (Pulse Width Modulation).

General specifications

Camera

CAMERA SYSTEM	System on Chip HD Color Camera
IMAGE SIZE	1/3.8”
RESOLUTION	1280(H) × 960(V)
IMAGE RATIO	4:3
OUTPUT FORMAT	YUV422 8 bit
LENS F/NO	F 2.0
FIELD OF VIEW	(H)190°±3% × (V)150°±3%
AXIS ACCURACY	±3%

Physical

DIMENSIONS (W×D×H)	45 × 45 × 35 mm
WEIGHT	59g ± 10g

Enviromental

OPERATING TEMPERATURE	-40°C ≤ T ≤ 85°C
ENCLOSURE PROTECTION	IP6K9K

Functional

COMMUNICATION SIGNAL	GMSL2
LINK SPEED	3 Gb/s
POWER OVER COAX	6Vdc ~ 12 Vdc
POWER CONSUMPTION	6Vdc : Max 370mA, 8Vdc : Max 300mA, 12Vdc : Max 240mA
CAMERA CONNECTOR	Rosenberger 59Z176-C01-A (Black)

Regulations and standards

Compliant with EMC Directive 2014/30/EU

Meets application-specific requirements for on-road vehicles

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