

SFAI-CamGS250-30X

AI Vision Camera · 30 FPS · AR0234CS · 1/2.6" · 2.3MP · 128.2° DFOV

MADE IN INDIA



Model No: SFAI-CamGS250-30X

- IP65 RATED
- GLOBAL SHUTTER
- ANPR READY
- ON-BOARD ISP
- BSI PIXEL

- 1920x1200**
ACTIVE PIXELS
- 128.2°**
DFOV
- 71.4 dB**
DYNAMIC RANGE
- 3 μm**
PIXEL PITCH
- 30 FPS**
FRAME RATE
- IP65**
PROTECTION

IP65 Certified
Dust-tight · Protected against low-pressure water jets from any direction

01 SENSOR

Sensor model	AR0234CS (onsemi®)
Optical format	1/2.6"
Type	Color CMOS Global Shutter
Array size	1920 × 1200 pixels
Pixel size	3 μm × 3 μm
Pixel technology	BSI (Back-Side Illuminated)
Shutter type	Global Shutter

02 OPTICS & FOCUS

Focus type	Fixed focus
DFOV	128.2°
Resolution class	2.3 MP Full HD
Frame rate	30 FPS

05 FULL SPECIFICATIONS

Resolution (H × V)	1920 × 1200 px
Pixel pitch	3 μm × 3 μm
Pixel technology	BSI
Responsivity	56 Ke/lux.sec
SNR	38 dB
Dynamic range	71.4 dB
Ingress protection	IP65
Frame rate	30 FPS

03 IMAGING PERFORMANCE

Dynamic Range	71.4 dB
SNR	38 dB
Responsivity	56 Ke/lux.sec

04 IMAGE PROCESSING

ISP	On-board high-performance ISP
Uncompressed output	UYVY
Compressed output	MJPEG
AI inference support	Edge inference ready

06 AI USE CASES

• ANPR / LPR	Indian number plate recognition — HSRP, old-series & state-specific plates
• Traffic Monitoring	Vehicle counting, classification & queue detection at intersections
• Vehicle Classification	Multi-class: 2W, 3W, LMV, HCV, bus
• Crowd Analytics	Footfall counting, density mapping & dwell-time analysis
• Perimeter Security	Intrusion detection, tripwire & zone-based alerting
• Toll / Barrier	Integrated with RFID / FASTag for automated toll enforcement

End-to-end Made in India (PCB, components and assembly). The embedded AI model is purpose-built and trained on Indian RTO-compliant number plate datasets for high recognition accuracy.