

Falke

Nvidia Jetson Orin Powered Compact Edge AI Camera

SPECIFICATION SHEET



CONDOR AI

Elevating AI to New Heights



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Nvidia Jetson Orin Powered Compact Edge AI Camera

SPECIFICATION SHEET V1.0



Key Features

- Powered with Jetson Orin NX/Orin Nano
- Single Lens Design
- 5MP Rolling Shutter (Sony IMX335) OR 5MP Global Shutter (ST Vx194x)
- Multi-Mode Connectivity: WiFi/Bluetooth/4G/5G/Gigabit Ethernet
- Compact & Lightweight CCTV-style Form Factor
- On-Device Intelligence for real-time analytics

Technical Specifications

System/Physical Characteristic	
Mounting	- CCTV-style bullet form factor (retrofit compatible)
Cooling	- Passive cooling for fanless configuration
IP rating	- IP 66
Processor	
SOM	- NVIDIA Jetson Orin NX/Orin Nano
Storage	- 128GB NVMe
Software	
OS	- NVIDIA JetPack 6.0 (Ubuntu 22.04 L4T)
BSP Version	- JetPack 6.0
DeepStream	- DeepStream 7.0 (Default version for JetPack 6.0)
Power	
Input	- 12V DC IN
POE Support	- Supported
LED Indicator	- Not Available
External I/O	
Serial Port	- Not Supported
SIM Slot	- 1x Nano SIM slot (Push-push type with Rubber)
Ethernet	- 1 x RJ45 Gigabit connector
SMA (Male)	- 2x SMA connectors for 5G antennas OR WiFi antennas - 1x SMA connector for GNSS feature
Network	
Ethernet	- 1 x RJ45 Gigabit (10/100/1000M) POE Enabled
Wireless/Cellular	- WiFi & Bluetooth (Realtek 8852)
4G/5G Module	- Telit FN990



Camera	
Image sensor Option 1	- 5MP Rolling Shutter – Sony IMX335
Image sensor Option 2	- 5MP Global Shutter – ST Vx194x

Environmental Requirements

Immunity/Withstand to Climatic Variations

Requirements	
Humidity	- 5 ~ 95% RH (non-condensing)
Temperature	- Operating Temperature: -20°C ~ 60°C - Storage Temperature: -40°C ~ 85°



Sensor Specifications

Option 1: Rolling Shutter

Sensor Specifications	
Sensor	- Sony CMOS IMX335
Shutter	- Rolling Shutter
Sensor Size	- 1/2.8"
Camera	
Resolution	- 2560x1920 @ 30fps (max)
ICR Support	- Auto/Day/Night
Optical Specification	
FOV	- 141.5°(D)x110°(H)x79°(V)
f-number	- 1.6

Option 2: Global Shutter

Sensor Specifications	
Sensor	- ST Vx194x
Shutter	- Global Shutter
Sensor Size	- 1/2.5"
Resolution	- 2560x1920 @ 30fps (max)
Lens Specifications	
View Angle	- Wide: 142.2°(D) x 102.7°(H) x 76.4°(V) - Tele: 42.5°(D) x 33.6°(H) x 26.0°(V)
f-number	- F1.86 (W) ~ F3.32(T)