



2026



Uchit Technology

FOR BETTER LIFE

VIDEO ANALYTICS ON
EDGE DEVICE



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About Us.

Uchit Technology Pvt. Ltd. is a forward-thinking technology company driving innovation in AI-powered automation, intelligent surveillance, and smart safety solutions. With a mission to make environments safer, smarter, and more efficient, Uchit has developed the UchitTech AI Box - an advanced edge AI device designed to transform existing CCTV systems into intelligent monitoring networks without replacing current infrastructure.

As a recognized Indian company and MSME certified enterprise, we are among the few Indian companies building custom AI/ML-based video analytics solutions tailored for real-world applications. Our AI Box enables real-time analytics such as PPE detection, intrusion alerts, vehicle monitoring, queue management, people counting, fire/smoke detection, and much more. From homes and industries to institutions, smart cities, and commercial spaces, Uchit Technology delivers scalable and future-ready AI solutions across India while steadily expanding its presence to global markets.

UTAI-ER26-S4-Plus



Features:

Supports 4-6 Streams

- | Fire & Smoke Detection
- | Advanced PPE Detection
- | Intrusion Detection
- | Crowd Detection
- | Person Count
- | Foot-Fall Analysis
- | Staff Exclusion PeopleCounting
- | Enter-Exit Detection
- | Theft Detection
- | Forklift-Person Proximity
- | Vehicle Count
- | Advance Vehicle Classification
- | Object Detection

Specifications:

Product Name	UTAI-ER26S4 Plus
Storage	microSD + NVMe SSD Expandable
PCIe Support	PCIe 2.0 Expansion Support
Camera Interface	CSI / USB / IP Camera Support
Camera Channels	Up to 4-8 Camera Integration
Video Processing	Up to 4K Resolution
Display Output	Dual HDMI 4K Display Support
Ethernet	Gigabit Ethernet
PoE Support	Yes
Wireless Connectivity	Dual-band Wi-Fi + Bluetooth 5.0
Cellular Connectivity	Optional 4G LTE Module
GPS Support	External GPS Module Support
Industrial Interface	RS232 / RS485 / CAN Bus Support
USB Ports	2 × USB 3.0 + 2 × USB 2.0
GPIO	40-pin Expansion GPIO
Operating System	Linux / Ubuntu / Embedded OS
AI Framework Support	OpenCV, TensorFlow Lite, PyTorch, ONNX
Applications	DMS, ADAS, Fleet Safety, Smart Surveillance
Power Input	5V USB-C / Wide Voltage DC Input
Protection	Reverse Polarity / Surge / Over-voltage Protection
Cooling	Fanless / Active Cooling Optional
Operating Temperature	-20°C to +70°C (depending on enclosure)



Features:

Supports 2-4 Streams

- | Intrusion Detection
- | Crowd Detection
- | Person Count
- | Foot-Fall Analysis
- | Theft Detection
- | Vehicle Count
- | Advance Vehicle Classification
- | Advanced Attribute
- | Virtual Fence Monitoring

Specifications:

Product Name	UTAI-ED10S4
Storage	External MicroSD Card Support
Multimedia	H.265 / H.264 Encoding & Decoding
Video Processing	Up to 4K UHD (3840 × 2160 @ 60fps)
Camera Interface	Dual 4-lane MIPI CSI
Camera Channels	Up to 2 Camera Integration
Display Output	HDMI Type-A
HDMI Resolution	Up to 1080p @ 60fps
Ethernet	Gigabit Ethernet
PoE Support	Supported via Gigabit Ethernet Port
Wireless Connectivity	Onboard Wi-Fi + Bluetooth
USB Ports	4 × USB 3.0 Type-A
USB Device Port	1 × USB Type-C
Industrial Interface	High-Speed CAN FD
GPIO	40-pin GPIO
LCD Interface	MIPI DSI Display Support
Audio	3.5mm Headphone Jack
Operating System	Ubuntu / Linux Embedded OS
AI Framework Support	OpenCV, Deep Learning SDK, Vision AI Stack
Power Input	5V / 5A via USB Type-C
IO Voltage	1.8V / 3.3V Selectable
Operating Temperature	Industrial Grade



Features:

Supports 1-2 Streams

- | Intrusion Detection
- | Crowd Detection
- | Person Count
- | Entry/Exit Detection
- | Occupancy Counting
- | Occupancy Car Counting

Specifications:

Product Name	UTAI-EB4S2
Storage	microSD + NVMe SSD Expansion Support
PCIe Support	PCIe Gen 3 (1 Lane)
Multimedia	H.264 / H.265 Video Codec Support
Video Processing	Up to 4K Video Codec Support
Camera Interface	Dual MIPI CSI (2 × 4-Lane)
Camera Channels	Up to 2 Native / Up to 8 via Virtual Channels
Display Output	HDMI + MIPI DSI + LVDS / OLDI
Multi-Display Support	Up to 3 Concurrent Displays
HDMI Resolution	Up to 1080p @ 60fps
Ethernet	Gigabit Ethernet
PoE Support	Yes
Wireless Connectivity	Wi-Fi 6 + Bluetooth LE 5.4
USB Ports	USB 3.1 High-Speed Ports + USB Type-C
Industrial Interface	GPIO + Real-Time I/O Support
GPIO	40-pin Expansion Header
Display Interface	MIPI DSI + LVDS
Operating System	Debian Linux / Ubuntu / Embedded Linux
AI Framework Support	OpenCV, TensorFlow Lite, Edge AI SDK
Power Input	USB Type-C / PoE HAT Support
Security	Secure Boot + OTP eFUSE Support
Operating Temperature	Industrial Grade



Specifications:

Product Name	UTAI-AO10-ProMax
Storage	microSD Slot + External NVMe SSD Support
PCIe Support	M.2 Key-M NVMe Expansion
Multimedia	H.264 / H.265 Encode & Decode
Video Processing	Up to 4K AI Video Analytics
Camera Interface	MIPI CSI Camera Connectors
Camera Channels	Multi-Camera Integration Supported
Display Output	DisplayPort
Display Resolution	Up to 4K Display Support
Ethernet	Gigabit Ethernet
Wireless Connectivity	Optional Wi-Fi + Bluetooth Module
USB Ports	4 × USB 3.1 Type-A
USB Device Port	1 × USB Type-C
GPIO	40-pin Expansion Header
Industrial Interface	GPIO / UART / SPI / I2C / CAN via Expansion
Operating System	Ubuntu / Linux Embedded OS
AI Framework Support	CUDA, TensorRT, OpenCV, PyTorch,
Power Input	TensorFlow 19V DC Adapter
Power Modes	7W / 15W / 25W
Cooling	Active Cooling with Heatsink + Fan
Operating Temperature	Industrial Grade

Features:

- Supports 10-12 Streams
- I Fire & Smoke Detection
- I Advanced PPE Detection
- I Intrusion Detection
- I Crowd Detection
- I Person Count
- I Staff Exclusion People Counting
- I Foot-Fall Analysis
- I Fight Detection
- I Fall Detection
- I Enter-Exit Detection
- I Theft Detection
- I Animal Detection
- I Forklift-Person Proximity
- I Vehicle Count
- I Advance Vehicle Classification
- I Object Detection
- I Illegal Dumping
- I Advanced Attribute



Features:

- Supports 10-12 Streams
- | Fire & Smoke Detection
- | Advanced PPE Detection
- | Intrusion Detection
- | Crowd Detection
- | Person Count
- | Staff Exclusion People Counting
- | Foot-Fall Analysis
- | Fight Detection
- | Fall Detection
- | Enter-Exit Detection
- | Theft Detection
- | Animal Detection
- | Forklift-Person Proximity
- | Vehicle Count
- | Advance Vehicle Classification
- | Object Detection
- | Illegal Dumping
- | Advanced Attribute

Specifications:

Product Name	UTAI-AO10-ProMax
Storage	microSD Slot + External NVMe SSD Support
PCIe Support	M.2 Key-M NVMe Expansion
Multimedia	H.264 / H.265 Encode & Decode
Video Processing	Up to 4K AI Video Analytics
Camera Interface	MIPI CSI Camera Connectors
Camera Channels	Multi-Camera Integration Supported
Display Output	DisplayPort
Display Resolution	Up to 4K Display Support
Ethernet	Gigabit Ethernet
Wireless Connectivity	Optional Wi-Fi + Bluetooth Module
USB Ports	4 × USB 3.1 Type-A
USB Device Port	1 × USB Type-C
GPIO	40-pin Expansion Header
Industrial Interface	GPIO / UART / SPI / I2C / CAN via Expansion
Operating System	Ubuntu / Linux Embedded OS
AI Framework Support	CUDA, TensorRT, OpenCV, PyTorch,
Power Input	TensorFlow 19V DC Adapter
Power Modes	7W / 15W / 25W
Cooling	Active Cooling with Heatsink + Fan
Operating Temperature	Industrial Grade



Features:

- Supports 6-8 Streams
- | Fire & Smoke Detection
- | Advanced PPE Detection
- | Intrusion Detection
- | Crowd Detection
- | Person Count
- | Staff Exclusion People Counting
- | Foot-Fall Analysis
- | Fight Detection
- | Fall Detection
- | Enter-Exit Detection
- | Theft Detection
- | Animal Detection
- | Forklift-Person Proximity
- | Vehicle Count
- | Advance Vehicle Classification
- | Object Detection
- | Illegal Dumping
- | Advanced Attribute

Specifications:

Product Name	UTAI - A8 Pro
Storage	microSD / 16GB eMMC on Module
PCIe Support	PCIe Gen3 + Gen4 Expansion
Multimedia	H.264 / H.265 Encode & Decode
Video Processing	Up to 8K Decode / Multi 4K AI Video Analytics
Camera Interface	MIPI CSI-2
Camera Channels	Up to 6 Cameras (24 via Virtual Channels)
Display Output	HDMI + DisplayPort
Ethernet	Gigabit Ethernet
Wireless Connectivity	Optional Wi-Fi + Bluetooth
USB Ports	4 × USB 3.1 Type-A
USB Device Port	Micro-USB
GPIO	40-pin Expansion Header
Industrial Interface	GPIO / UART / SPI / I2C / CAN via Expansion
Operating System	Ubuntu / Linux Embedded OS
AI Framework Support	CUDA, TensorRT, OpenCV, PyTorch, TensorFlow
Power Input	19V DC Adapter
Power Modes	10W / 15W / 20W
Cooling	Active Cooling with Heatsink + Fan
Operating Temperature	Industrial Grade



Features:

- Supports 2 Streams
- | Fire & Smoke Detection
- | Advanced PPE Detection
- | Intrusion Detection
- | Crowd Detection
- | Person Count
- | Staff Exclusion People Counting
- | Foot-Fall Analysis
- | Fight Detection
- | Fall Detection
- | Enter-Exit Detection
- | Theft Detection
- | Animal Detection
- | Forklift-Person Proximity
- | Vehicle Count
- | Advance Vehicle Classification
- | Object Detection
- | Illegal Dumping
- | Advanced Attribute

Specifications:

Product Name	UTAI - AN2
Storage	microSD / 16GB eMMC on Module
PCIe Support	PCIe Expansion Supported
Multimedia	H.264 / H.265 Encode & Decode
Video Processing	Up to 4K Video Analytics
Camera Interface	MIPI CSI-2
Camera Channels	Multiple Camera Support
Display Output	HDMI + DisplayPort
Ethernet	Gigabit Ethernet
Wireless Connectivity	Optional Wi-Fi + Bluetooth
USB Ports	4 × USB 3.0 Type-A
USB Device Port	Micro-USB
GPIO	40-pin Expansion Header
Industrial Interface	GPIO / UART / SPI / I2C / I2S
Operating System	Ubuntu / Linux Embedded OS
AI Framework Support	CUDA, TensorRT, OpenCV, PyTorch, TensorFlow
Power Input	5V DC
Power Modes	5W / 10W
Cooling	Passive / Active Cooling Optional
Operating Temperature	Industrial Grade

 Auto Cluster, MIDC, Chinchwad,
Pune, Maharashtra 411019

 uchittechnology.com

AI-based video analytics solutions use deep learning and computer vision to deliver smart surveillance. Features include face recognition, intrusion detection, fire detection, license plate recognition, crowd management, mask detection, and people counting for real-time security.



UCHIT
TECHNOLOGY (P) LIMITED
SIMPLIFYING TECHNOLOGY

 +91 9922631730

 info@uchittechnology.com
uchit.technology@gmail.com

