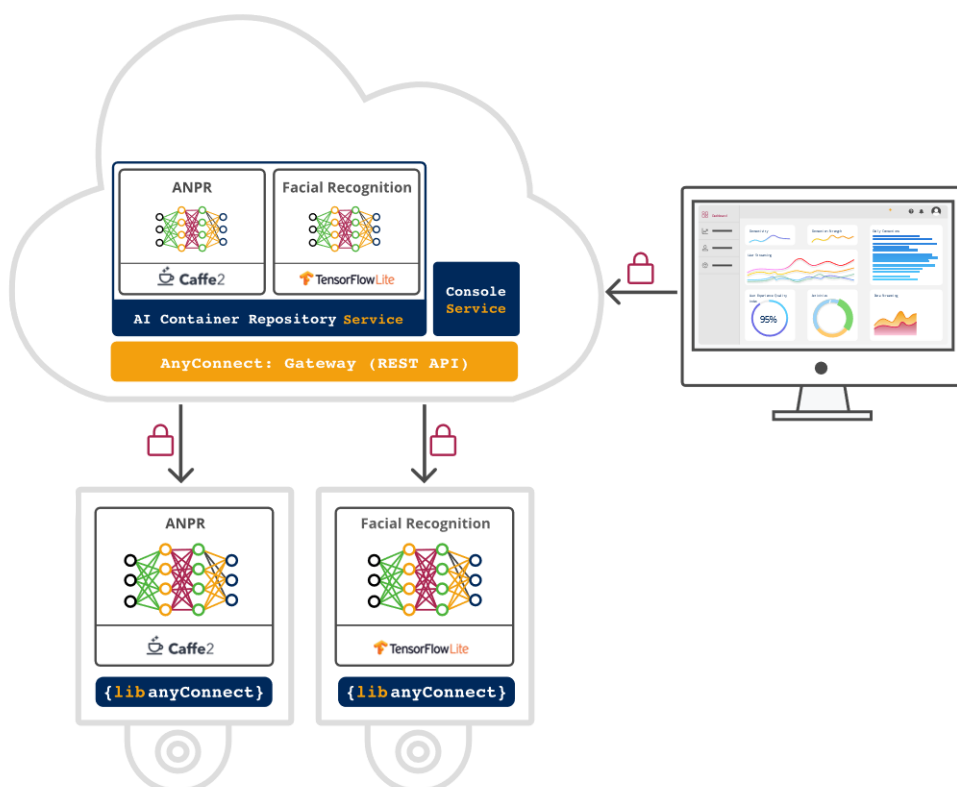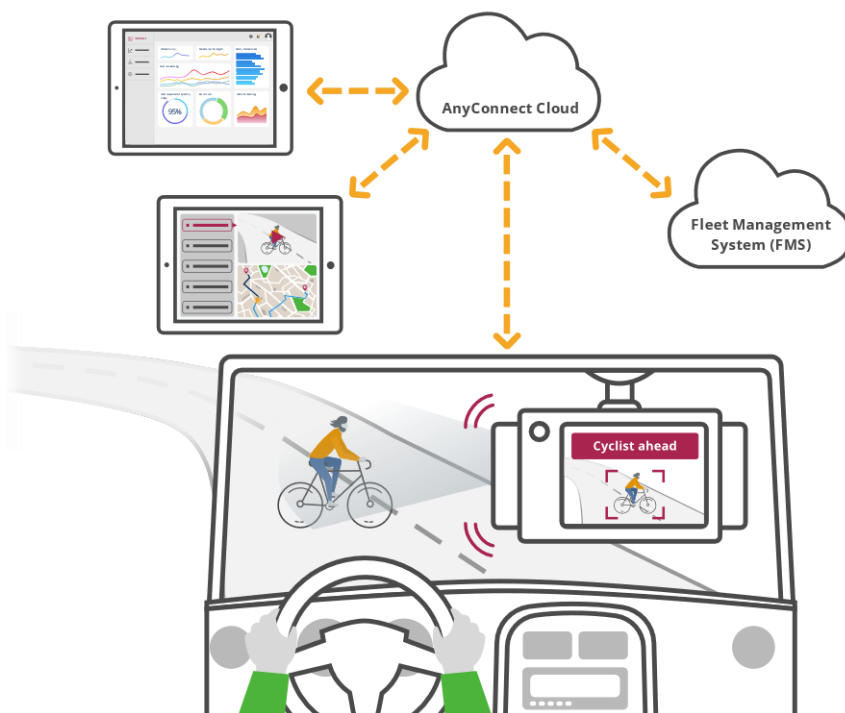# AnyConnect

Smarter AI™ Dashcam
Industrial

AI-driven video telematics for large vehicles with ECU Interface and up to 8 cameras with 5G cellular interface.

Version 1.4 | September 2020

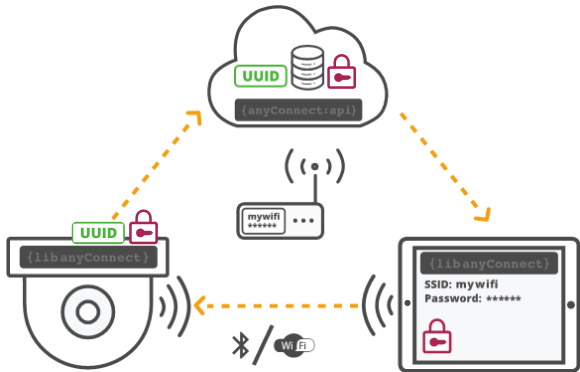# AI is Transforming Video Telematics for Fleets

AI is transforming Dashcams, using neural networks to classify and identify visual objects. The AnyConnect Smarter Camera™ Platform combines AI with secured connectivity over Wi-Fi, 4G, and 5G networks to enable AI camera networks with DNA - Decisions, Notifications, and Actions.
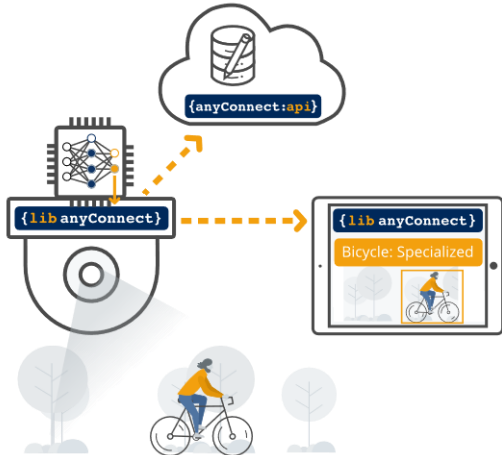

The Smarter Camera Platform features AI Containers™ for OTA programming of neural network models to support markets and use cases including security, transportation, retail, and more.
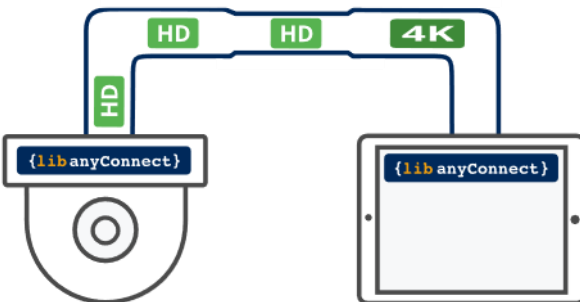
Smarter AI™ Dashcam Industrial Features

AnyConnect is a software platform for smart cameras such as dashcams, video telematics and connected vehicles. Our platform enables deep learning, computer vision, and sensor fusion, in a secure manner over wireless networks. AnyConnect's APIs enable access control, streaming, computer vision, and other smart video features, powered by our patented STUN, TURN, and ICE technologies.
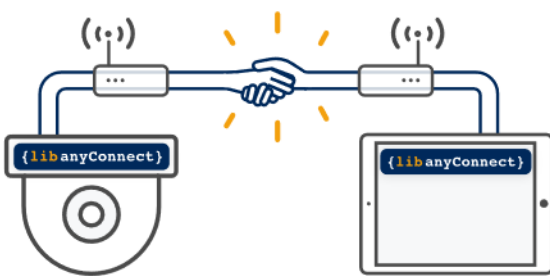

Onboarding – Connect embedded devices to the internet with ease for any interfaces. Create the trust network and register a device to a specific account. Works for mass and zero-touch onboarding as well.

Deploy Edge AI, at scale, seamlessly – Deploy AI Containers™ securely. Manage & monitor AI models on millions of cameras with multiple types of edge Inference Accelerators

The Best Video over Wi-Fi, LTE & 5G - AnyConnect's adaptive bitrate streaming monitors the network's bandwidth, jitter, packet loss as well as devices CPU capacity to deliver the best possible video quality.

Instant Connections - With patented STUN TURN ICE technologies for NAT traversal, AnyConnect connects any camera and mobile device, on any fixed or mobile network, across any NAT or firewall.
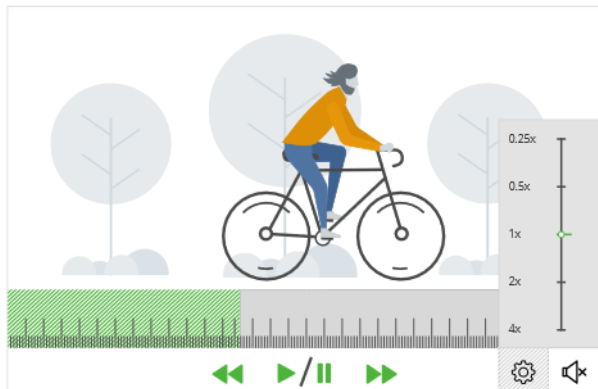
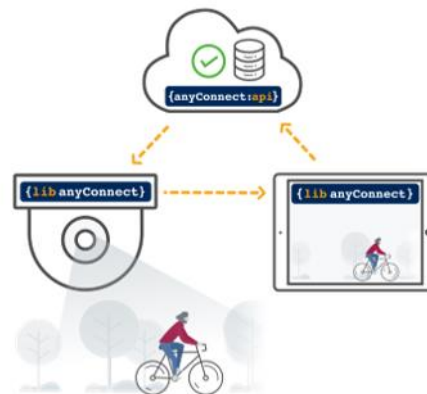**Recording & Playback -** AnyConnect combines continuous and event recording for video, audio, and data. AnyConnect delivers the best possible video quality, regardless of network interruptions.

Access Control - Grants access to only the right users over public networks (Wi-Fi, LTE, 5G, etc.) with different access levels. AnyConnect Access Control is secure and enables you to be privacy-compliant.

Console - Cloud-based tool for managing your connected camera networks. Console provides a real-time view of KPIs and CDRs, including camera activity, health, and much more.

Over-the-Air (OTA) Programming – Deploy securely, over Wi-Fi, 4G, 5G & Ethernet: device applications, access control rights, configuration, OS & firmware updates, and AI Containers™.

Use Cases

The Smarter AI Dashcam Industrial supports a wide range of applications.

ADAS

Video Evidence

Fleet Management, Asset Tracking, Remote Vehicle Status Monitoring

Taxi & Ride-Hailing
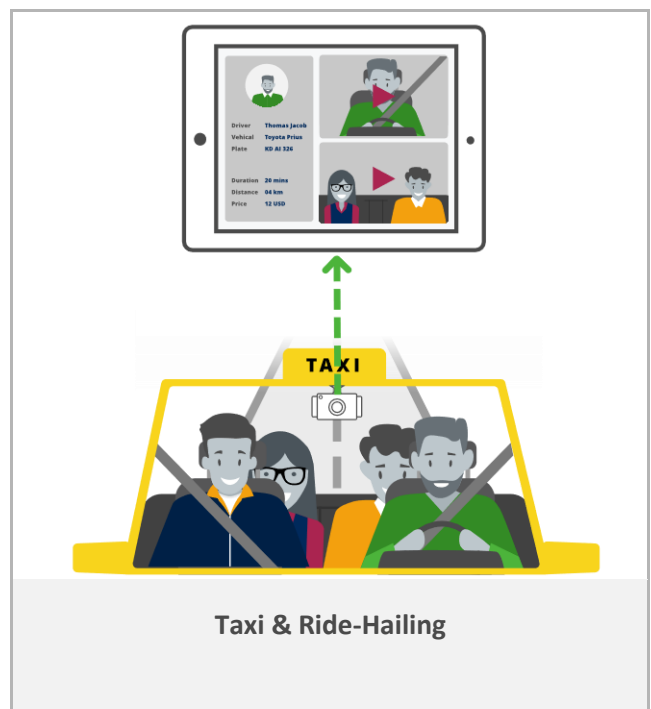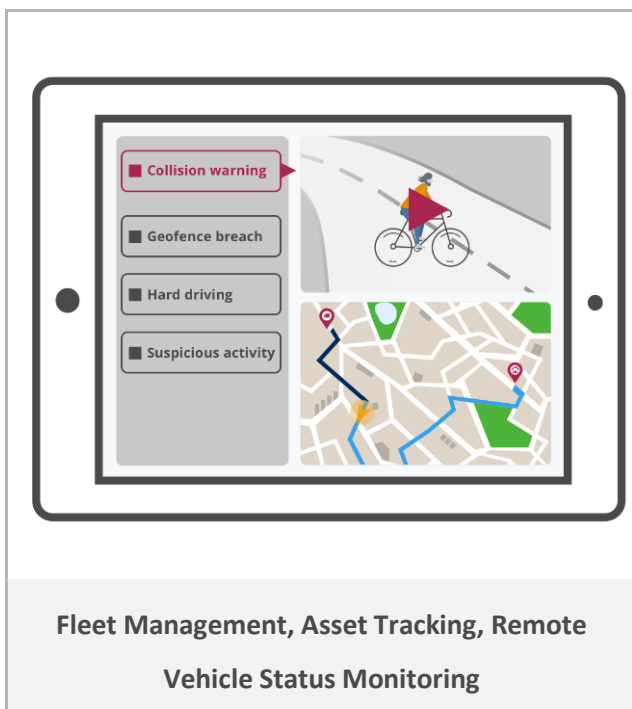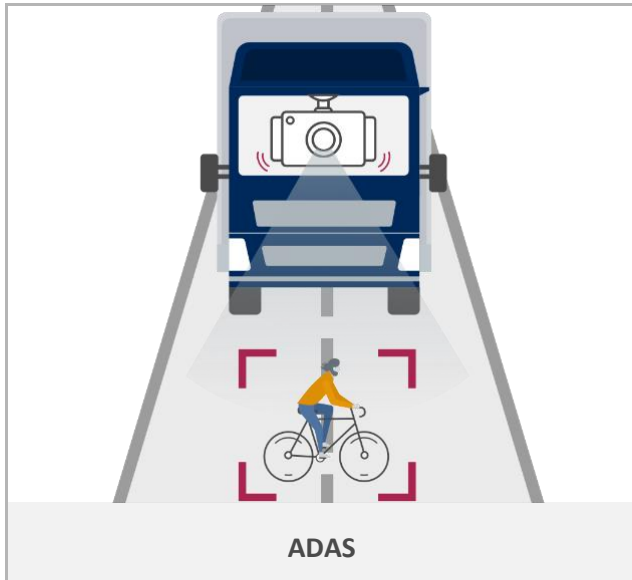
Optional Driver Authentication through NFC

Driver Training

Technical Specifications

Smarter AI™ Dashcam		Industrial
Video Codecs		h.265 (backward compatible to h.264)
Cameras		Up to 8 detached imagers
		Up to 8 x 1080p30 or up to 4 x 2160p30
		Supports AnyConnect Cameras and 3rd party, ONVIF, cameras.
Cellular	Options	Default – No Cellular Interface
		4G – 4G/LTE Modem with Worldwide support
		5G – 5G with LTE Modem, Sub 6Ghz, Worldwide support
	SIM Card	2 Micro SIM slots for cellular network redundancy
Antennas	Cellular	4 x SMA
	GNSS	1 x SMA
	Compatibility	Vehicle mountable MIMO antennas
Positioning		GNSS: GPS, Galileo, GLONASS
		Automotive Dead Reckoning
Bluetooth		N/A
Wi-Fi		Wi-Fi 5 (Optional)
Power Inputs	PoE	Nominal: 802.3.bt Type 4 (100 W)
		Minimum: 802.3.at Type 2 (30 W), no extensions (SSD, USB, etc.)
	VDC	9 to 52 VDC, 100W (power supply not included)
	USB PD	Power Delivery 3.0 @ 100W on the USB Type-C Port
	Redundancy	Redundant power supported (PoE, VDC and USB PD)

Power Management		Ignition Sensor
		Supercapacitor (10 seconds of power)
AI Accelerator		Yes, 21 TOPs
Crypto Core		Yes, Trusted Platform Module 2.0
Static Discharge Protection	Physical Contact	8 KV
	Via Air	15 KV
Memory Card		Yes, micro SDXC.
Storage (optional)		NVME SSD (PCIe 3.0 4x)
Mount		DIN-Rail IEC/EN 60715 (35 x 7.5)
		Wall mount brackets
		Rack mount through 3rd party DIN Rail adapter
Sensors		3-axis G-sensor
		Gyroscope
		Thermometer
Display Interface		1 x DisplayPort 1.4
Mounting system		Industrial grade adhesive
Ethernet		2 x 1000BASE-T (1 port with PoE)
Link Aggregation		IEEE 802.3ad Dynamic link aggregation (802.3ad, LACP)
Driver Identification		3rd party card reader (optional)
Vehicle Interface		OBD-II: SAE J1962, J1939 & J1704 CAN protocols (High/ Low)
		Following FMS–Standard for trucks, buses, and coaches
		RS 232 (Tx/Rx)
Microphone & Loudspeaker		Through 3rd party IP interface

Temperature Rating	-20°C to +60°C (-4°F to +140°F)
Standards	CE, FCC, ROHS, WEEE

The Smarter AI™ Dashcam Industrial supports multiply types of imagers (including 3rd party). Please contact us to identify the best imager(s) for your application.

Ordering Information

Product Description	SKU
Smarter AI™ Dashcam Industrial	AC–AIDC–INT
Smarter AI™ Dashcam Industrial – 4G/LTE kit	AC–AIDC–INT–LTE–KIT
Smarter AI™ Dashcam Industrial – 5G kit	AC–AIDC–INT–5G–KIT
Smarter AI™ Dashcam Industrial – Ruggedized 512GB SSD	AC–SSD–R05T
Smarter AI™ Dashcam Industrial – Ruggedized 1TB SSD	AC–SSD–R1T
Smarter AI™ Dashcam Industrial – Ruggedized 2TB SSD	AC–SSD–R2T
Smarter AI™ Dashcam Industrial – Industrial 1TB SSD	AC–SSD–I1T
Smarter AI™ Dashcam Industrial – Industrial 2TB SSD	AC–SSD–I2T
Smarter AI™ Dashcam Industrial – Industrial 4TB SSD	AC–SSD–I4T
Event Recording (up to 4K, 30 days retention)	
Subscription HD/4K – Monthly	AC–AIDC–INT–EVNT–4K–MNTH
Subscription HD/4K – Annual	AC–AIDC–INT–EVNT–4K–1YR
Subscription HD/4K – 3 Years	AC–AIDC–INT–EVNT–4K–3YRS
Continuous Recording (up to 4K, 30 days retention)	
Subscription HD/4K – Monthly	AC–AIDC–INT–CONT–4K–MNTH
Subscription HD/4K – Annual	AC–AIDC–INT–CONT–4K–1YR
Subscription HD/4K – 3 Years	AC–AIDC–INT–CONT–4K–3YRS

✳ AnyConnect

About AnyConnect

AI is transforming Dashcams, using neural networks to classify and identify visual objects. The AnyConnect Smarter Camera™ Platform combines AI with secured connectivity over Wi-Fi, 4G/LTE, and 5G networks to enable AI cameras, gateways, and networks with DNA - Decisions, Notifications, and Actions.

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The Fine Print