

DC20

AI-Powered 4G Dashcam



Product Introduction

The **DC20** is a rugged, 4G-connected, 6-channel AI dashcam built for freight fleets. It combines an integrated forward-facing camera with an in-cabin camera for full road and driver monitoring, and supports up to four user-installable external AHD cameras, enabling up to six channels of 1080p recording. Enjoy dual-stream video backup with supercapacitor protection, industrial-grade durability, and global 4G connectivity for real-time GPS and data tracking. Advanced AI algorithms provide forward risk alerts by detecting vehicles, pedestrians, and lane lines, while also monitoring drivers for fatigue and distraction. The in-cabin camera and one-touch privacy mode ensure driver safety and privacy without compromise.

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Product Highlights



Proactive Fleet Safety: Cutting-edge AI (ADAS & DMS) actively alerts drivers to prevent accidents caused by distraction or fatigue.



Hassle-Free Setup: Auto-calibration simplifies and speeds up installation.



Unwavering Reliability: Dual supercapacitors ensure your critical video data is protected, even during sudden power loss.



Built to Last: Rugged, industrial-grade hardware guarantees a longer product lifespan, reducing downtime.



Global Real-Time Visibility: Reliable worldwide 4G (CAT4) connectivity provides instant access to data and precise GPS vehicle tracking.



Powerful AI Processing: A high-performance SoC with a dedicated 3.0 TOPS NPU drives advanced AI capabilities.



Crystal-Clear Multi-Channel Recording: Capture comprehensive views with up to three simultaneous 1080p HD video streams at 30fps.



Ample & Secure Storage: Dual microSD card slots support up to 512GB each for main and sub-stream video storage.



Sustained Peak Performance: An advanced cooling system efficiently dissipates heat, ensuring consistent high performance.



Smart Power Management: Conserves power in sleep mode (after ACC off) while still allowing for remote location and wake-up.



Immediate Emergency Response: An easily accessible, bright red panic button allows drivers to quickly signal for help.



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Edge AI Capabilities

Type	Function	Alert Sound	Working Speed
Forward ADAS	FCW	Forward collision warning	Above 30km/h
	HMW	Maintain safe distance	Above 50km/h
	PCW	Pedestrian ahead	1~30km/h
	LDW	Lane departure	Above 55km/h
Driver-Facing DMS	Driver Eye Closed	Alert: Driver appears drowsy	Above 20km/h
	Driver Yawning	Alert: Driver appears drowsy	Above 20km/h
	Driver Distraction	Alert: Driver distraction	Above 20km/h
	Driver Smoking	Caution: Driver is smoking	Above 20km/h
	Driver Phone Use	Driver phone use detected	Above 20km/h
	Seat Belt Non-Fastened	Alert: Seat belt not fastened	Above 20km/h
	No Driver Detected	Warning: No driver detected	Above 20km/h
	Camera Obstructed	Warning: DMS camera is obstructed	Above 20km/h
Aggressive Driving Detection	Hard Braking		Above 20km/h
	Harsh Acceleration		Above 20km/h
	Sharp Turn		Above 20km/h
	Collision		Above 0km/h
	Rollover		Above 0km/h

Product Specifications

Brand	SelectCam AI
Model	DC20
MCU	ARM® Cortex®-M4
AV Codec Chip	ARM® quad-core Cortex™ A53 with real-time H.264/H.265 encode/decode
NPU	Neural network acceleration engine with processing performance up to 3 TOPS
RAM	8Gb DDR4
ROM	8GB eMMC
Operating System	Linux
UI Language	English
Mobile Networks	TDD-LTE/FDD-LTE/EVDO/TD-SCDMA/WCDMA
eSIM	Optional
WiFi	802.11b/g/n/ac compliant
GPS Positioning	✓
IMU	6-axis gyro
Storage	Supports two microSD cards, up to 512GB each
Audio Input/Output	Single-channel audio input and output (forward)
Camera Channels	Channel 1 (forward): Audio + Video Channel 2 (Default for DMS): Video only Channel 3: Video only

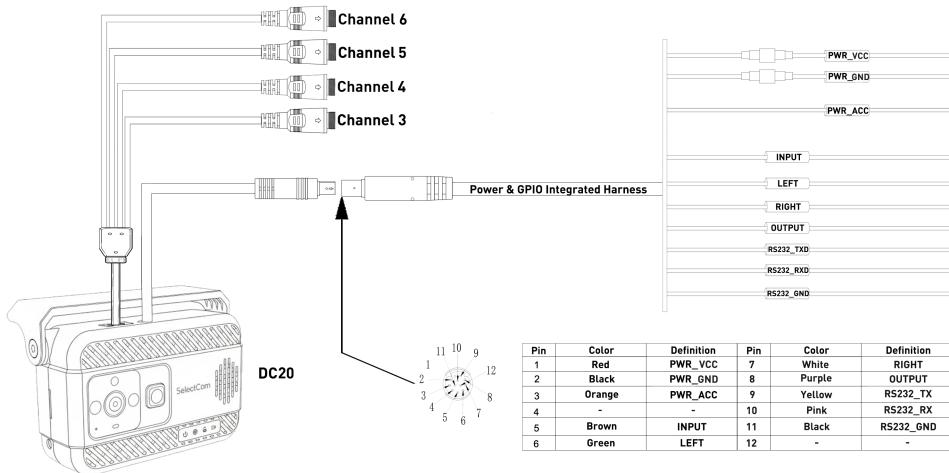
Product Specifications

Codecs	Supports up to 6x 1080p@30fps video channels
Video Standard	PAL (by default)/NTSC
Detachable Cameras (*2) Interface	4-pin aviation connector, AHD signal, defaulting to 1080p (720p optional)
LED Indicators	1 device power status LED 1 4G communication status LED 1 GPS positioning status LED 1 video recording status LED
GPIO	3-channel input 1-channel output 1-channel RS232
Other Interfaces	1 micro SIM card slot 2 microSD card slots 1 USB 2.0 port
Supercapacitor	2 built-in supercapacitors
Input Voltage	9V ~ 36V
Circuit Protection	With built-in safeguards against undervoltage, short circuits, and reverse polarity.
Work Modes	Beyond the standard operating mode, customizable settings are available for delayed shut-down, sleep mode, scheduled power-on, and remote wake-up.
Temperature Range for Operation	-20°C to 70°C
Temperature Range for Storage	-40°C to 85°C
Casing Material	Aluminum alloy + PC + ABS (UL94-V0)
Physical Size	120mm x 75.6mm x 49.5mm
Net Weight	366g

Standard & Optional

Standard	DC20 dashcam*1
	Bracket*1
	3M sticker*1
	Power and GPIO integrated harness *1
	Cable tie*8
Optional	Mini Allen wrench*1
	A-pillar DMS camera
	Windshield DMS camera
	Mini dome camera
	Side camera
	Mini side cameread
	Rear camera
	MicroSD card
	4-pin aviation video extension cable

Wiring Diagram



About SelectCam AI

SelectCam AI is pioneering the future of freight fleet safety with accessible, high-performance AI video telematics hardware. We meticulously design and engineer premium, connected AI cameras, ensuring exceptional reliability. Based in Shenzhen, the heart of global manufacturing, we combine this strategic advantage with deep industry expertise. Driven by our core principle, **"AI-Powered Video Telematics, Quality Assured,"** we're committed to reducing accidents and saving lives. We're not just a hardware provider; we're an innovator in life-saving technology.