AI 360° System

InView 360° HD Bird's Eye View System with AI and Recording

360-K1EA

The next generation of InView 360 offers advanced AI image recognition technology for active safety alerting for both operators and surrounding pedestrians. The 360-K1EA (RVS-03-360-AI) can be equipped with 4 or 6 Full HD ultrawide fish-eye cameras that seamlessly merge together their respective images to create a complete 2D overhead view of your vehicle and its surroundings.

This powerful system has a built-in DVR supporting H.264 video compression formatting and accepts a 2.5" hard drive securely inside the ECU with a maximum storage capacity of 2 TB. Use the 360° view to assist with parking, check blind spots, or navigate narrow roads. Choose a 7" or 10" touch-screen HD monitor or seamlessly integrate into any other of our HD monitor or DVR products.

The 360-K1EA allows for customizable surround detection zones for vehicles & pedestrians, as well as ADAS functionality such as Lane Departure and Forward Collision Warnings. With 6 independent trigger outputs, this versatile system can integrate with perimeter lighting and speakers for active external safety alerts to vulnerable pedestrians.



Full Around Vehicle Monitoring (AVM)

The system comes standard with 4 cameras (or 6, in the case of larger vehicles) to provide a 2D, stitched-together, overhead view of the vehicle. The additional 2 cameras can also be used to monitor the driver/cargo areas. All connected cameras are recorded.

Out-of-the-box Recording

The system features recording in HD and unlike most around vehicle monitoring (AVM) systems on the market, there is no need to split video signals and and feed into another piece of equipment.

Automatic Triggers

Set trigger inputs to have the camera view change automatically (left/right/reverse/default). Utilize up to 6 independent trigger outputs to activate external safety devices.

Customizable On Screen Overlay

Completely customize the vehicle graphic along with width, length, and position of the overlay and AI detection zones.

Large Storage Capacity

Records onto a 2.5" hard drive, supporting up to 2TB of storage capacity.

Advanced Features

The 360-K1EA has a built-in G-Sensor, and is equipped with GPS and WiFi.

Instant Reverse

The system activates the rear camera image with 2 seconds of ignition, enabling FMVSS-111 compliance.

RVS
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Powerful Cameras. Exceptional Service. Safer Roads.

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360-K1EA

System Components:



Electronic Control Unit (ECU)
Front Cover Opened



Electronic Control Unit (ECU)
with Front Cover Closed



Ultra-wide Camera with Housing (x6)



Passive CVBS Splitter



7"/10" HD Monitor (optional)



External Wi-Fi Antenna



External IR Sensor



External GPS Receiver



Push Button
(x3, Red, Green, Black)



6 Waterproof Proximity Sensors (optional)

System	
Operating Voltage	8 VDC to 32 VDC. Reverse polarity protection on power
Operating Temperature	-20°C to 70°C
Storage Temperature	-40°C to 85°C
Self-Diagnostics	On boot. LED indicators, on-screen indicators
Views:	Top View, 2D stitched around vehicle view / Front / Reverse / Left / Right
	Top view combined with one of the following views Front / Reverse / Left / Right
	Auto-switched based on external signal triggers or internal AI alert triggers: Left / Right / Reverse Signals
	Manual-switched with an external push button
	Instantaneous reverse view after engine ignition and reverse gear engaged
	Top View, combined with any side view or driver/cargo view
Bulk Calibration	Supported
Trigger Signal Input Voltage	6 to 32 VDC
Trigger Signal Output Voltage	Matches system input voltage, 0.5W max power consumption per channel.
Video Download[1]	Via Wi-Fi
Configuration	Via IR, via Wi-Fi, via monitor (touch screen or mouse driven)
Video Recording	Supported; continuous
Frame Rate	1080p @30fps NTSC, @25fps PAL; all channels
Compression/Encoding	H.264
Storage[2]	2.5" Hard Drive slot; max capacity 2TB
Monitor	Supports 720p (CVBS) and /or 1080p (HD); touch screen capable
Video Streaming	RTSP support via ethernet
Vehicle Image Library	Editable. Preloaded with 8 vehicle types

ECU	
Enclosure	Enclosure: die-cast aluminum ADC12; lockable / removable front cover (metal).
Video Outputs	1080p / CBVS, 2 ports
Video Inputs	Up to 6 camera inputs
Trigger Signal Inputs	Left / Right / Reverse / Panic (event marking), 6-32VDC @ 0.12 to 0.63 mA.
Camera Port Impedance	75 Ω
Video Output Port Impedance	75 Ω
GPS	<28mA @ 3.3V
Dimension	135 x 120 x 40 mm; 5.8 x 6.8 x1.5 in
IR Sensor	3m extension
CAN Communication	250Kbps / 500Kbps
Camera	
Enclosure	Die-cast aluminum ADC12 with a 304 stainless steel bracket; IP69K-rated
Dimensions	52 x 42 x 40 mm; 2.0 x 1.7 x 1.6 in (approximate)
Sensor	2.9 mega-pixel CMOS
Power	ECU-supplied
Voltage	12VDC @65 mA
Focal Length	2.8mm
Field of View (FOV)	130° (V) x 190° (H)
SNR	>80dB
Other	
G-Sensor	Equipped; Built-In
GPS	External Receiver
Wi-Fi	External antenna; 802.11 b/g/n/ac
Language	English / French / German / Dutch
Units of Measure	Metric / Imperial
Ports	USB / RS232C / RS485 / Can Bus
Certifications	FCC / EMark / CE
Video Player	HD Player (native) - with routing information H.264 compliant - without routing information Recorded video selectable/filterable by event types

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