

360° System



inView 360° HD Around Vehicle Monitoring System

RVS-02-360

The RVS-02-360 can be equipped with 4-6 Full HD ultra-wide fish-eye cameras that seamlessly merge together their respective images to create a complete 2D overhead view of your vehicle and its surroundings.

The inView 360 HD system has a built-in DVR supporting H.264 video format. The system supports up to 4 solid-state SD cards in the ECU with a maximum total capacity of 1 TB.

Use the 360° view to assist with parking, check blind spots, or navigate narrow roads. Choose a 7" or 10" HD monitor.

The RVS-02-360 supports the use of a graphic overlay for large vehicles such as fire trucks and wide commercial vehicles. The extent of the outrigger is configurable.

This versatile system can also be connected directly from the ECU to a Mobile DVR as a single channel.

Integrate our 6-sensor system into the inView 360° HD for audible and visual proximity alerts when backing up, parking, or seeking clearance.



■ 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 solid state recording in HD and unlike most around vehicle monitoring (AVM) systems on the market, there is no need to split video signals and feed to a DVR system.

■ Automatic Triggers

Set triggers to have the camera view change automatically (left/right/reverse/default).

■ Customizable On Screen Overlay

Customize the width, length, and position of the overlay for specific applications.

■ Large Storage Capacity

Records onto 4 solid state storage SD cards, 256 GB each, for a total storage capacity of 1TB.

■ Advanced Features

The RVS-02-360 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.

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System Components:



Electronic Control Unit (ECU)
Front Cover Removed



Electronic Control Unit (ECU)
with Front Cover



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: 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 Voltage	6 to 32 VDC
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	Up to 4 SD cards in series; max capacity 256 GB for a total of 1TB max system storage.
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 / CVBS, 2 ports
Video Inputs	Up to 6 camera inputs
Trigger Signals	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 x 1.5 in
IR Sensor	3m extension
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
Homologation	FCC / EMark / CE
Video Player	HD Player (native) - with routing information
	H.264 compliant - without routing information
	Recorded video selectable/filterable by event types