

Parking systems

Safe driving systems



CAMERAS AND MONITORS

A camera system is the perfect aid for use on vans, trucks, buses, semi-trailer trucks, refuse trucks and agricultural equipment. Our range of products allows you to create a system to meet your particular needs on a specific vehicle. Choose the right monitor size and camera, or simply add additional cameras to your existing system. Installing a system will greatly improve comfort when driving your vehicle, reduce driver fatigue, and help prevent accidents and collisions.

Monitors allow you to set the appropriate image orientation when the camera is rotated in an unconventional manner. Connecting trigger wires allows the feeds from individual cameras to appear over the entire screen automatically when the driver needs to see in that direction (for example when turning or reversing).

In addition to universal cameras, a rear camera may be integrated into the brake light on some van models, which helps preserve the original appearance of the back of the vehicle. Given the ability to use cameras in vehicles of different sizes, individual connecting cables are not included with the cameras and must be ordered in the required quantities and lengths. All cameras are designed for outdoor use with IP68 or IP69K protection and the horizontal angle of view is 120°.



MONITORS

- diagonal 7", 9" or 10"
- resolution 1024 x 600 pixels (AHD monitors)
- video inputs for 720p HD and CVBS cameras
- 2, 3 or 4 channel (4-split view function)
- 4 image orientation setting options
- TV system: PAL/NTSC support
- automatically displays the correct feed (e.g. when reversing or turning)
- M12 4 PIN connection cable or wireless (only TFT7HDW)

CAMERAS

- CMOS 1/3" sensor chip (AHD cameras)
- 720p HD and CVBS resolution
- automatic IR illumination



- durable M12 4PIN threaded connectors
- water (IP69K) and shock (min. 4G) resistant

AHD – PROPERTIES AND APPLICATIONS

“Analogue High Definition” is an analogue system successor technology that processes and transmits images in high definition (such as HD 720p – 1280x720) without lag or losses.

AHD uses progressive scanning, and the signal format permits the elimination of blur and flicker, while improving colour reproduction. Uncompressed “raw” data is transmitted in analogue form, which eliminates delay, choppiness and image jamming.

AHD offers the advantages of compatibility and variability. For example 720p AHD cameras may be used with 720p or 1080p AHD monitors. 720p AHD monitors support 720p AHD cameras and analogue cameras at the same time. AHD recorders with AHD technology tend to be hybrid (MXVR1004), meaning they support IP cameras as well as analogue cameras in addition to AHD cameras.

Due to the fact that AHD cameras are also equipped with automatic IR illumination, the AHD image is even more detailed in the dark (compared to an analogue camera), and the only remaining advantage of an analogue system is a lower monitor price.



Compatibility table		CAMERA		
		AHD 720p	AHD 1080p	Analogue
MONITOR	AHD 720p	OK	---	OK
	AHD 1080p	OK	OK	OK
	Analogue	---	---	OK

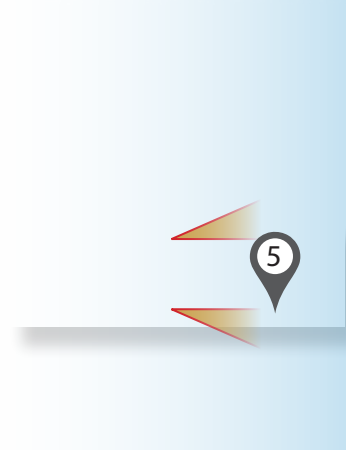
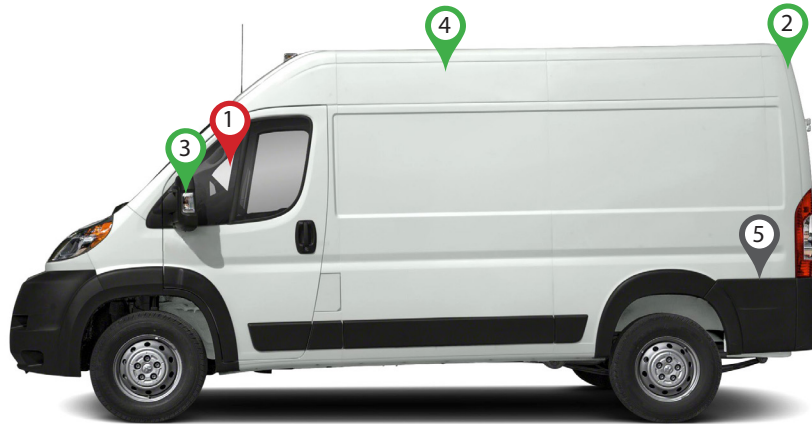
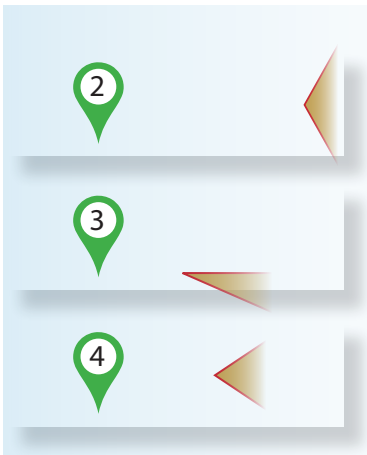
- AHD monitors support AHD cameras and analogue cameras (if installed)
- AHD cameras and analogue cameras may be connected to an AHD monitor at the same time (in a 2 + 2, 1 + 2 or 1 + 1 camera configuration)
- AHD cameras cannot be connected to analogue monitors



APPLICATIONS FOR TYPICAL COMMERCIAL VANS AND TRUCKS

To provide a clear overview and to determine suitable monitors and cameras, we have prepared 8 typical vehicles showing the locations of specific system components.




VAN/CARAVAN




MONITOR

	tt-number	position	description	diagonal size	resolution	AHD/analogue	channels / split screen	connectors	price
	1350 107.000	1	4 channel, analogue, automatic camera detection	7"	800x480	analogue	2 ch	M12 4PIN	€ 56-39

CAMERAS

	tt-number	position	location	sensor chip	AHD/analogue	IR illumination	connector	TV system	price
	1350 022.000	2	rear, in brake light, for Jumper, Boxer, Ducato (06-)	CCD Sharp 1/4"	analogue 420TVL	yes	RCA	NTSC	€ 98,80
	1350 004.000	3	side, in rear-view mirror	CMOS 1/4"	analogue 420TVL	no	RCA	NTSC	€ 28,50
	1350 005.000	4	in cargo area	CMOS 1/3"	analogue 600TVL	yes	RCA	PAL	€ 47.30

BLIND SPOT DETECTION

	1350 037.000	5	in plastic rear bumper	9V – 30V	acoustic, visual	2x microwave 79 GHz	5 m back, left and right	controller – display 4.5 m	€ 113.60
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ALTERNATIVE CAMERA SOLUTION

	1350 024.000	2	OEM Parking camera for Renault Master, Opel Movan	CCD Sharp 1/4"	analogue 420TVL	yes	RCA	NTSC	€ 98,90
	1350 021.000	2	OEM Parking camera, VW, Mercedes	CCD Sharp 1/4"	analogue 420TVL	yes	RCA	NTSC	€ 93.15





TRUCK




MONITOR

	ID	position	description	diagonal size	resolution	AHD/ analogue	channels / split screen	connectors	price
	1350 108.000	1	3 channel, AHD, automatic camera detection	9"	1024x600	AHD 720p	4 ch 2, 3, 4	M12 4PIN	€ 121,5

CAMERAS

	ID	position	location	sensor chip	AHD/ analogue	IR illumination	connector	TV system	price
	1350 008.000	2	rear, heated, automatically folding shield	CMOS 1/3"	AHD 720p	yes	M12 4PIN	PAL	€ 111,0
	1350 007.000	3	side	CMOS 1/3"	AHD 720p	yes	M12 4PIN	PAL	€ 49,75
	1350 004.000	4	side, in rear-view mirror	CMOS 1/4"	analogue 420TVL	no	RCA	NTSC	€ 28,5
	1350 007.000	5	in interior	CMOS 1/3"	AHD 720p	yes	M12 4PIN	PAL	€ 49,75


BLIND SPOT DETECTION

	1350 037.000	6	in plastic rear bumper	9V – 30V	acoustic, visual	2x microwave 79 GHz	5 m back, left and right	controller – display 4.5 m	€ 113,55
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TIPPER TRUCK




MONITOR

	ID	position	description	diagonal size	resolution	AHD/ analogue	channels / split screen	connectors	price
	1350 108.000	1	3 channel, AHD, automatic camera detection	9"	1024x600	AHD 720p	4 ch 2, 3, 4	M12 4PIN	€ 121,5

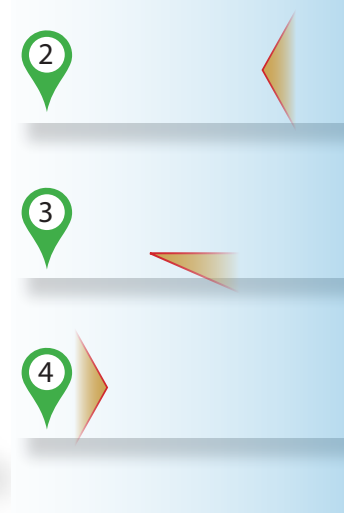
CAMERAS

	ID	position	location	sensor chip	AHD/ analogue	IR illumination	connector	TV system	price
	1350 008.000	2	rear, heated, automatically folding shield	CMOS 1/3"	AHD 720p	yes	M12 4PIN	PAL	€ 111,0
	1350 007.000	3	in interior	CMOS 1/3"	AHD 720p	yes	M12 4PIN	PAL	€ 49,0
	1350 004.000	4	side, in rear-view mirror	CMOS 1/4"	analogue 420TVL	no	RCA	NTSC	€ 28,5.


BLIND SPOT DETECTION

	1350 037.000	5	in plastic rear bumper	9 V – 30 V	acoustic, visual	2x microwave 79 GHz	5 m back, left and right	controller – display 4.5 m	€ 113,5
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REFUSE TRUCK




MONITOR

	ID	position	description	diagonal size	resolution	AHD/ analogue	channels / split screen	connectors	price
	1350 108.000	1	3 channel, AHD, automatic camera detection	9"	1024x600	AHD 720p	4 ch 2, 3, 4	M12 4PIN	€ 121,5

CAMERAS

	ID	position	location	sensor chip	AHD/ analogue	IR illumination	connector	TV system	price
	1350 005.000	2	in cargo area	CMOS 1/3"	analogue 600TVL	yes	M12 4PIN	PAL	€ 47,30
	1350 007.000	3	in interior	CMOS 1/3"	AHD 720p	yes	M12 4PIN	PAL	€ 49,75
	1350 004.000	4	side, in rear-view mirror	CMOS 1/4"	analogue 420TVL	no	RCA	NTSC	€ 28,50

BLIND SPOT DETECTION

	1350 037.000	5	in plastic rear bumper	9V - 30V	acoustic, visual	2x microwave 79 GHz	5 m back, left and right	controller - display 4.5 m	€ 113,50
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tt-number
1350 035.000



Price CZK 3,276.000

On-board camera for cars, Full HD, CPL filter, parking mode, Neoline X72

NEOLINE Full HD camera for cars (1080p 30 fps, 720p 60 fps), SONY Exmor image sensor, aperture f 1.8, with 140° angle of view, with IPS 2.0" display, with WDR, support for up to 128 GB SD card. The sophisticated parking mode supports individual recording settings when parking, including resolution, sensitivity. Start recording by shaking or movement, or both sensors. The camera includes a night mode with a monochromatic model to improve image quality at reduced visibility.

Technical parameters:

- Image sensor: SONY Exmor CMOS,
- Novatek CPU
- Video resolution: Full HD 1920 x 1080 (30 fps),
- Video format: MP4
- WDR: image optimisation for bright and dark conditions
- Scanning angle: 140°
- Display: built-in, 2.0" diagonal
- CPL filter – rotary anti-glare polarising filter
- Speaker and microphone: built-in magnetic holder – convenient and secure mounting
- G-overload sensor
- Parking mode Night mode
- Cyclic recording:
- Date and time – option to display on the recording
- Micro SD slot – supports 8 GB to 128 GB built-in capacitor
- Menu languages: CZ, EN, FR, RU, ES, DE, PL
- Storage temperature: from -20°C to +70°C
- Operating temperature: from -10°C to +60°C

tt-number
1350 036.000



Price CZK 2,912.000

On-board camera for cars, Wi-Fi, GPS

Full HD camera for cars with integrated GPS, overload sensor, Wi-Fi and mobile application. This camera has a gesture sensing function that allows you to lock the video or save a photo by waving your hand in front of the camera. The lens is a 6-layer model with a 152° scanning angle and f 1.8 aperture

Technical parameters:

- CPU: Hisilicon 3561C_V200
- Image sensor: Panasonic CMOS
- Lens: 6-layer, 152° scanning angle, F1.8
- Wi-Fi: 2.4 GHz, 802.11b / g / n.
- G-sensor: simple overload sensor
- Video resolution: 1920 * 1080 (16:9), @ 30 fps,
- Audio: 8 kHz, 2 channels
- Photo resolution: 1920 * 1080, .JPG
- Storage: SD card, up to 64 GB, Class
- Operating temperature: from -20°C to +70°C
- Power: DC 5 V, 1 A, from 12/24 V adapter
- Video processing: 3D filter, image enhancement,
- Mobile application: Smart iCarcam

CABLING AND ADAPTERS

	tt-number	description	channels	price
	1350 058.000	M12 cable, male-male, length: 5 metres	1	€ 7,42
	1350 052.000	M12 cable, male-male, length: 10 metres	1	€ 8,79
	1350 053.000	M12 cable, male-male, length: 15 metres	1	€ 11,6
	1350 054.000	M12 cable, male-male, length: 20 metres	1	€ 13,9
	1350 056.000	flexible cabling to connect tractor/trailer, M12, male-male	3	€ 143,1
	1350 057.000	monitor (M12 male plug) and camera (RCA male plug) adapter	1	€ 3,64