RE-VCC...

Waterproof cameras for vehicles

Product description

DSE vehicle cameras are designed for mounting on board vehicles such as cars, vans, campers and public or heavy vehicles. They can also be used successfully in any application where a small waterproof camera is required. Thanks to the Fish-Eye lens, excellent for close-up shots, they provide excellent results in video intercom, access control and industrial inspection shots.

Product composition

- Camera with wide angle lens Power and video
- cable
- Video extension cable (5 m)
- Drilling tool (flush mount models only)

Watertight aluminum container

DSE vehicle cameras are enclosed in an airtight, corrosion-resistant metal case that protects them from impacts. The closing gasket guarantees absolute water resistance (IP67) which allows outdoor installation without protections.

Assembly

The cameras are available in different models to choose from depending on where you want to install the camera and the shooting direction. In the built-in models, the drill tool for making the mounting hole is supplied.

The camera and the lens

Vehicle cameras use a color C-MOS sensor and produce analog CVBS video with a resolution of 420 TV lines.

AHD models instead produce an AHD video signal at 1MP (720P) or 2MP (1080P). To be able to receive these signals you need a DVR or monitor compatible with the AHD standard.

Unlike normal surveillance cameras, these models use ultra wide-angle lenses**fish eye**to guarantee the maximum possible wide angle while minimizing blind areas without visibility. The lens is not replaceable.

The RE-VCC---IR models are equipped with LEDs for night vision.

Front view and rear view (MIRROR)

When used on board vehicles, the camera can be used to film frontally with respect to the direction of travel or in rear vision. For this reason, all DSE vehicle cameras have a system for mirroring the image (MIRROR function) so as to be able to film behind the driver, providing the same vision as looking in the rear-view mirror.

Many models allow you to select normal or mirror vision by cutting a**external green or white cable (see table)**located near the connectors. Care must be taken when making this choice as the modification cannot be reversible unless the cable is soldered again. Perform switching with the camera without power.

Parking lines

Some models have the possibility of superimposing colored reference lines on the image which help the driver of the vehicle in parking maneuvers. Many models allow you to eliminate parking lines by cutting a**external cable in white or green (see table)** located near the connectors. Care must be taken when making this choice as the modification cannot be reversible unless the cable is soldered again. Perform switching with the camera without power.

AHD/CVBS switching

Some AHD camera models also support normal CVBS video. You must bring the camera to CVBS if you want to be able to connect it to a monitor that does not handle AHD signal. You can switch the video signal from AHD to CVBS by cutting the**external blue cable** located near the connectors. Care must be taken when making this choice as the modification cannot be reversible unless the cable is soldered again. Perform switching with the camera without power.

Audio

Waterproof cameras, for obvious protection reasons, do not have a microphone on board.

The wiring

Vehicle cameras connect directly to an analog video signal monitor. DSE produces several small LCD models already equipped for mounting on vehicles. AHD signal monitors are also available, suitable for high resolution cameras

It is possible to connect there camera Also to both desktop and portable digital video recorders. DSE also produces video recorders specifically developed for use on board vehicles, called MDVR.

On the back of the camera a cable of approximately 50 cm comes out which ends with a connector for the 12VDC power supply (central positive 5 mm jack socket) and a connector for the video (female RCA).

A video cable with male RCA terminals, 5 m long, generally suitable for average vehicles, is supplied with the camera. In some models the video cable is also equipped with an additional red cable that can be used to bring the 12VDC+ power supply to the camera (the vehicle chassis is used as GND). The camera power supply is 12VDC and is usually supplied by the vehicle battery.

For general uses not on board vehicles it is possible to power the camera with a stabilized 220VAC/12VDC 500 mA power supply (not included).
By connecting the camera to an external transmitter such as RE-DTX, it is possible to transfer the video signal via radio.

Technical data

http://www.dseitalia.it/Prod_telecamere_veicoli.htm

Switching functions
Some camera functions, explained previously, can be disabled by cutting the white, green and blue cables that protrude from the connection cable

Camera	Mirror	Parking lines	AHD/CVBS video signal
RE-VCC2	Green cable (factory active)	White cable (factory active)	CVBS only, AHD not available.
RE-VCC2D	White cable (factory active)	Green cable (factory active)	CVBS only, AHD not available.
RE-VCC2D2	White cable (factory active)	Green cable (factory active)	CVBS only, AHD not available.
RE-VCC4IR	White cable (factory active)	Green cable (factory active)	CVBS only, AHD not available.
RE-VCC4IR2	Green cable (factory active)	Only active, not excludable	CVBS only, AHD not available.
RE-VCC5IR-1	Only active, not excludable	Only deactivated	AHD only, CVBS not available.
RE-VCC5IR-1B	White cable (factory active)	Green cable (factory active)	Blue cable (factory AHD)
RE-VCC5IR-3	Green cable (factory active)	White cable (factory active)	Blue cable (factory AHD)

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