For CCTV cameras and video devices generally surges coming from the video cabling can have very serious destructive effects. Electric machines, lighting systems, atmospheric discharges, short circuits, can generate voltage spikes of varying length and nature capable of irreparably destroy, in a fraction of a second, any camera, often without leaving a track evident.

The presence of occasional surges in a CCTV system generates frequent damage of the camera with sudden disappearance of the video signal, without the occurrence of anomalous phenomena of notice. Often the high amount of faults is user erroneously attributed to a poor quality of the materials. The devices of DSE protection are designed specifically for the protection circuit cameras closed, both to Traditional cabling over coaxial cable of twisted pair, able to protect the camera from the majority of the electrical problems that may damage the video circuit.

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All surge protection does not require power, but they need a good earth. Without the grounding protection it is not able to perform its function.

Check if possible with a tool that the system ground to be effective.

RE-PR1 - video input BNC Protection
The security module RE-PR1 is connected to the end of the coaxial video cable, immediately before the device that is meant to protect (camera, monitor, VCR, etc.). For this purpose is provided with a female BNC connector for connection to the cable and a male BNC connector for the connection equipment. There is also a ground cable which must be connected to an efficient earthing so that the device can exert protection in an appropriate manner.

In case of overvoltage, the RE-PR1 protection is able to intervene in 100 ns. and interrupt fault currents up to 5000A. Protection is able to withstand about 300 to 100 A surge before needing to be replaced.

The device requires no power.

RE-PR2 - Video Input protection of RJ45 and twisted pair CAT5 cable. The security module RE-PR2 has the same security features of the RE-PR1 model, but it is developed to protect video transmission over twisted pair cables is performed using the appropriate balun converters. E can use the RE-PR2 form both with passive balun converters RE-BNCRJ1 that active.

RE-PR2NET - Ingress Protection Network LAN RJ-45
The security module RE-PR2NET protects IP cameras and generally all network devices connected over CAT5 or CAT6 data cable.

The device has an input named IN to which to connect the network cable incoming and an output OUT at which connect the device to be protected. See the following example installation.

As always is available the earth cable which must be connected for the device to exercise adequately protective.

RE-PR3 - Protection BNC video input and RS485 serial line for speed dome cameras. The security module RE-PR3 is analogous to the RE-PR1 module but provides, in addition to the BNC video signal protection, also the protection of an RS485 data line, a rule used for controlling speed-dome cameras.

The device connects between the video cable / RS485 incoming and the speed dome camera and protects both the video circuit that control of the tilt.
There are 2 female BNC connectors (IN / OUT), 2
terminals DATA IN and DATA OUT terminals. It also presents a terminal of earth to be compulsorily connected so that the device can exercise the protection so as to be adequate.

The device requires no power.