SDO-2 *SPEED DOME OPTOISOLATOR*

The SDO-2 device enables galvanic separation of the video signal and RS-485 telemetry signal between Speed Dome camera and the device recording video signal from this camera. It protects the camera against overvoltage from installation cables and the digital recorder against overvoltage from camera cables. The application of SDO-2 optoisolator allows to split the whole system to particular parts and therefore lessens the risk of damage caused by overvoltage.

Main features:

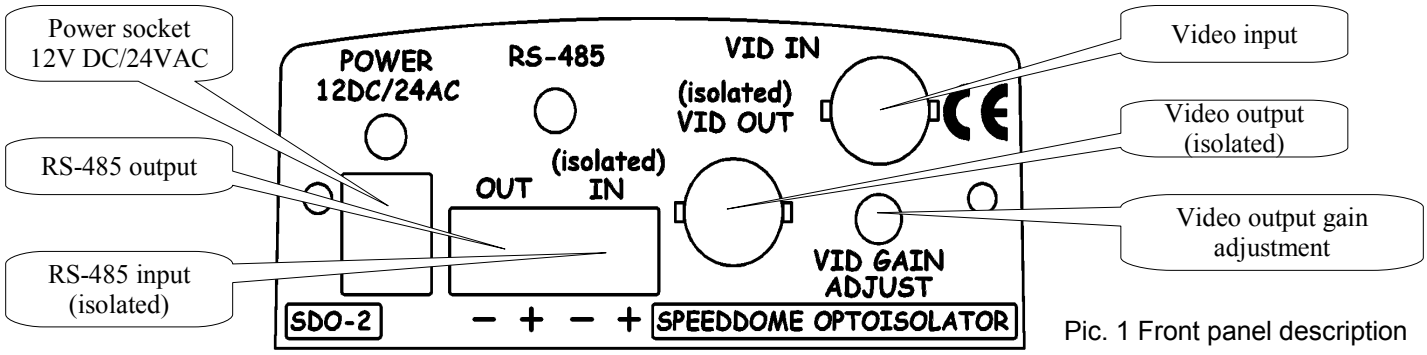
- optoisolation between RS-485 input and output and galvanic isolation between RS-485 input and power,
- optoisolation between video input and output and galvanic isolation between video output and power,
- protection against lightning discharges and voltage differences between devices,
- elimination of signal disturbances caused by voltage differences.

SPECIFICATIONS:

Number of video inputs/outputs	- 1/1
Number of RS-485 inputs/outputs	- 1/1
RS-485 transmission range	- 1200 m
RS-485 input isolation	- 1000 V
Video output isolation	- 1000 V
RS-485 transmission mode	- simplex
Baud rate	- 2400 – 115200 bauds
Power source	- 12 V DC / 100 mA 24 V AC / 50 mA
Dimensions	- 148x80x40 mm
Weight	- 150 g

Front panel description

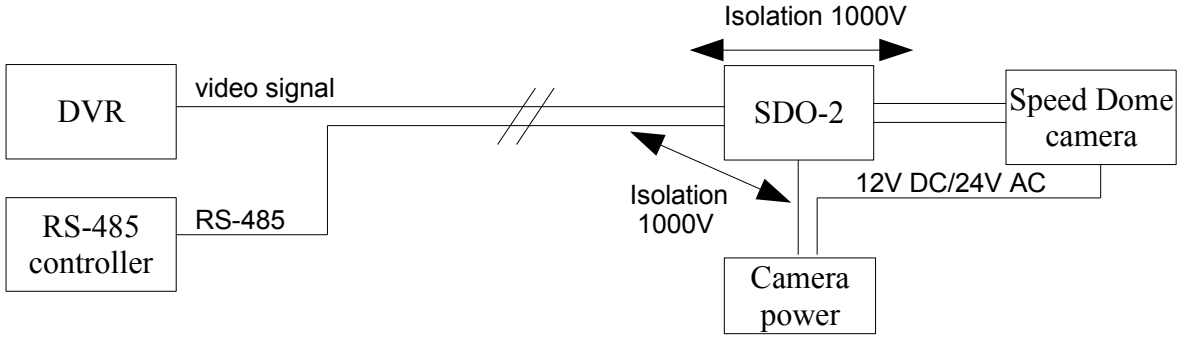
On the front panel there are all connectors enable connect the device to the CCTV system. RS-485 input and output are equipped with terminals, which allow to free connections arrangement and quick and easy disconnect the device. The RS-485 connectors are terminated by 120Ω resistors built-in. The red LED indicates the power supply, and the green one the RS-485 line activity.



Pic. 1 Front panel description

Application schematic diagram

The below picture shows the CCTV system schematic diagram with using the SDO-2 device to video signal and RS-485 telemetry signal isolation. In this application the DVR and RS-485 controller are galvanic separated from CCTV camera and its power.



Pic. 2 CCTV system with SDO-2 device application