

Code: TR-16/DC-RACK

## VIDEO BALUN **TR-16/DC-RACK**

The TR-16/DC-RACK is designed to video signals transmission and power supplying via twisted-pair cable (UTP, FTP). The device adapts the impedance of coaxial cable 75Ω to the impedance of symmetrical line, ensuring transmission of video signal up to 400m (twisted-pair cable category 5) and eliminates asymmetric interferences. Video signal is sent over one pair of a twisted-pair cable, the remaining three pairs are used for supplying power. The TR-16/DC-RACK can be powered from one or two outer power adaptors (A or B).

Each of power line is protected by the polymer fuse and has a green LED indicator, which informs about its operation (the LED light is off when the power is off). When one of the outputs is overloaded the resistance and polymer fuse temperature are increasing (>100°C), and the LED indicator light is off. When the fuse is warmed up, the flowing current has small value. If the overloaded reasons are stopped, the fuse returns to the previous state.

In device, depending on current consumption there is a voltage drop on polymer fuses: 160mV at I=0.5A ; 300mV at I=0.7A ; 340mV at I=1A.



Standard:	<ul style="list-style-type: none"> <li>• AHD - 5 Mpx,</li> <li>• HD-CVI - 8 Mpx 4K UHD,</li> <li>• HD-TVI - 8 Mpx 4K UHD,</li> <li>• CVBS - PAL, NTSC</li> </ul>
Input voltage:	max. 40 V DC max. 10 A Power connector "A" max. 10 A Power connector "B"
Device type:	Passive / Receiver
Number of channels:	16 Video + DC
Coaxial socket voltage range 75Ω (CVBS):	1 Vpp
Output current:	1 A @ 1 ... 16
Video transmission range:	<ul style="list-style-type: none"> <li>• 250 m @ 720p - UTP cat. 5e</li> <li>• 150 m @ 1080p - UTP cat. 5e</li> <li>• 400 m @ CVBS - PAL, NTSC - UTP cat. 5e</li> </ul>
Output voltage:	max. 40 V
Attenuation:	<ul style="list-style-type: none"> <li>• 4.43 MHz @ 0.73 dB</li> <li>• 11 MHz @ 1.24 dB</li> <li>• 21 MHz @ 2.16 dB</li> <li>• 38 MHz @ 3.35 dB</li> <li>• 42 MHz @ 3.54 dB</li> <li>• 67.5 MHz @ 3.72 dB</li> </ul>
Main features:	Each of 16 power outputs can be assigned to "A" or "B" power adapter, using jumpers placed inside the device housing
Symmetrical socket impedance:	100 Ω
Connectors type:	16 x BNC Socket Video 2 x Cable terminals DC 2.1 / 5.5 mm Socket DC





# DATA SHEET

Symmetrical socket type:	16 x RJ-45 (8-pin, 4 pairs) Socket
Housing type:	RACK 19", 1U
Permissible relative humidity:	< 95 %
Operation temp:	-40 °C ... 55 °C
Power supply distance:	<ul style="list-style-type: none"><li>• Power supply 12V DC</li><li>353 m @ 50 mA</li><li>235 m @ 75 mA</li><li>176 m @ 100 mA</li><li>141 m @ 125 mA</li><li>117 m @ 150 mA</li><li>88 m @ 200 mA</li><li>70 m @ 250 mA</li><li>58 m @ 300 mA</li><li>50 m @ 350 mA</li><li>44 m @ 400 mA</li><li>39 m @ 450 mA</li><li>35 m @ 500 mA</li><li>29 m @ 600 mA</li><li>25 m @ 700 mA</li><li>22 m @ 800 mA</li><li>19 m @ 900 mA</li><li>17 m @ 1000 mA</li></ul>
Weight:	1.250 kg
Dimensions:	483 x 44 x 245 mm
Guarantee:	<b>3 years</b>
Manufacturer / Brand:	DELTA

