

Code: TR-16H/DC/R19

## VIDEO BALUN **TR-16H/DC/R19**

The TR-16H/DC/R19 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 @ PAL (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 device consists of 4 independent power modules (see diagram below) which allows for various configurations. 12V DC power sending allows to use the TR-1M/70 and TR-1PV/70. Some part of outputs can also be powered by 12V, the others eg. by 40V what enables power sending for long distances (application with TRN-1/400, ZK-40/6 or ZK-40/16).



|                                          |                                                                                                                                                                                                                      |
|------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Standard:                                | <ul style="list-style-type: none"> <li>• AHD - 8 Mpx 4K UHD,</li> <li>• HD-CVI - 8 Mpx 4K UHD,</li> <li>• HD-TVI - 8 Mpx 4K UHD,</li> <li>• CVBS - PAL, NTSC</li> </ul>                                              |
| Input current:                           | 4 x max. 10 A                                                                                                                                                                                                        |
| Maximal power voltage:                   | max. 40 V / 28 V AC                                                                                                                                                                                                  |
| Max. output current for single output:   | 2.5 A                                                                                                                                                                                                                |
| Device type:                             | Passive                                                                                                                                                                                                              |
| Number of channels:                      | 16 Video + DC                                                                                                                                                                                                        |
| Coaxial socket voltage range 75Ω (CVBS): | 1 Vpp                                                                                                                                                                                                                |
| Video transmission range:                | <ul style="list-style-type: none"> <li>• 250 m @ 720p - UTP cat. 5e</li> <li>• 400 m @ CVBS - PAL / NTSC - UTP cat. 5e</li> </ul>                                                                                    |
| Attenuation:                             | <ul style="list-style-type: none"> <li>• 4.43 MHz @ 0.09 dB</li> <li>• 11 MHz @ 0.42 dB</li> <li>• 21 MHz @ 1.04 dB</li> <li>• 38 MHz @ 0.85 dB</li> <li>• 42 MHz @ 1.00 dB</li> <li>• 67.5 MHz @ 0.87 dB</li> </ul> |
| Symmetrical socket impedance:            | 100 Ω                                                                                                                                                                                                                |
| Connectors type:                         | <ul style="list-style-type: none"> <li>• Video - 16 x BNC Socket</li> <li>• DC - Cable terminals</li> </ul>                                                                                                          |
| Symmetrical socket type:                 | Cable terminals                                                                                                                                                                                                      |
| Housing type:                            | RACK 19", 1U                                                                                                                                                                                                         |
| Permissible relative humidity:           | < 95 %                                                                                                                                                                                                               |
| Operation temp:                          | -10 °C ... 55 °C                                                                                                                                                                                                     |



# DATA SHEET

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|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Power supply distance: | Power supply 12V DC<br>353 m @ 50 mA<br>235 m @ 75 mA<br>176 m @ 100 mA<br>141 m @ 125 mA<br>117 m @ 150 mA<br>88 m @ 200 mA<br>70 m @ 250 mA<br>58 m @ 300 mA<br>50 m @ 350 mA<br>44 m @ 400 mA<br>39 m @ 450 mA<br>35 m @ 500 mA<br>29 m @ 600 mA<br>25 m @ 700 mA<br>22 m @ 800 mA<br>19 m @ 900 mA<br>17 m @ 1000 mA |
| Weight:                | 0.56 kg                                                                                                                                                                                                                                                                                                                  |
| Dimensions:            | 483 x 44 x 53 mm                                                                                                                                                                                                                                                                                                         |
| Guarantee:             | <b>3 years</b>                                                                                                                                                                                                                                                                                                           |
| Manufacturer / Brand:  | DELTA                                                                                                                                                                                                                                                                                                                    |