

Tv Amplifer 8000 series



General		
Power supply	Vac	95 ÷ 220
Power consumption	W	4 (min) ÷ 9 (max)
Total remote power	mA	100 (12 V)
Dimension	mm	165x125x41

Model	Description	Gain	Output level	BIV	BV
OUTPUT LEVEL 113dBuV					
8100	5 Inputs TV Amplifier BI-BIII UHF-BIV-BV	22dB 24dB	113dBuV	21÷36	39÷69
8101	5 Inputs TV Amplifier BI-BIII UHF-BIV-BV	22dB 24dB	113dBuV	21÷32	35÷69
8102	5 Inputs TV Amplifier BI-BIII UHF-BIV-BV	22dB 24dB	113dBuV	21÷38	41÷69
8103	5 Inputs TV Amplifier BI-BIII UHF-BIV-BV	22dB 24dB	113dBuV	21÷41	44÷69
8110	1 Inputs TV Amplifier (VHF + UHF)	24dB VHF 28dB UHF	113dBuV	---	---
8120	2 Inputs TV Amplifier VHF UHF	24dB 27dB	113dBuV	---	---
8130	3 Inputs TV Amplifier VHF UHF - UHF	24dB 27dB	113dBuV	---	---
OUTPUT LEVEL 118dBuV					
8200	5 Inputs TV Amplifier BI-BIII UHF-BIV-BV	32dB 34dB	118dBuV	21÷36	39÷69
8201	5 Inputs TV Amplifier BI-BIII UHF-BIV-BV	32dB 34dB	118dBuV	21÷32	35÷69
8202	5 Input TV Amplifier BI-BIII UHF-BIV-BV	32dB 34dB	118dBuV	21÷38	41÷69
8203	5 Inputs TV Amplifier BI-BIII UHF-BIV-BV	32dB 34dB	118dBuV	21÷41	44÷69
8210	1 Inputs TV Amplifier (VHF + UHF)	37dB VHF 38dB UHF	118dBuV	---	---
8220	2 Inputs TV Amplifier VHF UHF	37dB 38dB	118dBuV	---	---
8230	3 Inputs TV Amplifier VHF UHF - UHF	35dB 35dB	118dBuV	---	---
OUTPUT LEVEL 124dBuV					
8300	5 inputs TV Amplifier BI-BIII UHF-BIV-BV	43dB 45dB	124dBuV	21÷36	39÷69
8301	5 inputs TV Amplifier BI-BIII UHF-BIV-BV	43dB 45dB	124dBuV	21÷32	35÷69
8302	5 inputs TV Amplifier BI-BIII UHF-BIV-BV	43dB 45dB	124dBuV	21÷38	41÷69
8303	5 inputs TV Amplifier BI-BIII UHF-BIV-BV	43dB 45dB	124dBuV	21÷41	44÷69

Multi-band terrestrial signal amplifier

8000 Series



Multi-band signal amplifier

8000 series

built in power supply

The 8000 series is the new range of wide band heads with built-in power supply launched by Telewire. These new products are a concentrate of the best that technology has made available to design engineers for the purpose of offering the market a product capable of achieving performances that, until today, have been technically unreachable. Every single detail of the product has been carefully designed, starting from the **container**.

Made in die-cast metal, generally used for products intended for professional use, it ensures excellent shielding especially from outside interferences, which may damage the quality of signals.

With regards to the **connections**, on this range of products we also used die-cast terminals which, just like for the multiswitch, antenna sockets and taps/splitters families, also proved to be easy to connect and with a high contact quality.

For the **amplification**, **monolithic amplifier** were used instead of the usual transistor, since this type of component makes it possible to achieve considerable amplification linearity. In addition, output levels from 113 dbuV to 124 dbuV **are guaranteed**, along with amplifications of up to 45db (using two separate stages for VHF and UHF). These output levels make it possible to use heads even in case of medium/large-size installations. Naturally, the technology used is fully **compatible** with **DTT** signals with **OFDM** modulation. Moreover, in order to guarantee full protection of the ends from electrostatic charges, a circuit was added to carry out this task.

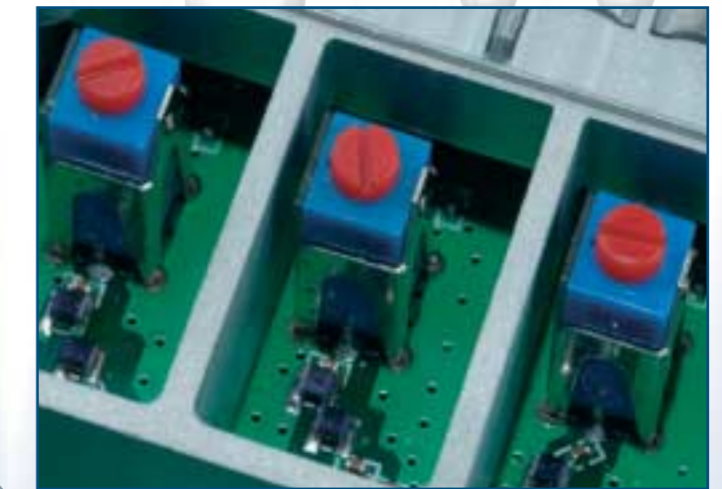
The power supply features **switching technology**, as a result it is very light and very high levels of currents can be reached with almost no heat dissipation. The head is also equipped with a total 100 mA **autoreset remote supply** on the inputs that, in case of short circuit, goes into self-protection mode and automatically resets as soon as the connection is normalized.

Internally, the printed circuit was separated by means of die-cast cells between each single band. In addition, 75 ohm **variable balanced attenuators** were used for signal attenuation (0 -20 db). These attenuators guarantee proper adaptation to the signals, prevent unwanted intermodulation and optimize the reflections. The device is equipped with a -30db test output used for testing.

The heads are available with 5, 3, 2, 1 inputs with various filter sizes, depending on the areas where they are meant to be installed.



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