



## Programmable filters amplifier for 50 channels (15 filters)

### art. 26-711 REVOLUTION PLUS 30

Indoor programmable filters amplifier, indicated to optimize the amplification of DTT signals on medium/large size TV systems. Ideal where signals are received from different directions and with different power levels.

It allows to process more than 50 TV channels.

The channels can be received individually or in groups of two, three, four or five adjacent channels.

If the channels are selected individually, it is possible to receive up to 15 channels.

If the channels are selected all at groups of five channels it is possible to receive the hypothetical maximum of 75 channels.

Each VHF band channel individually received can be converted to another VHF band channel and each UHF band channel received individually can be converted to another UHF band channel.

It is equipped with an automatic LTE filter:

- if the channels set on the inputs are lower than E48 channel, the 694 MHz filter is activated;
- if the channels set on the inputs are lower than E60 channel, the 790 MHz filter is activated;
- if the channels set on the inputs are higher than E60 channel, the LTE filter is turned off.

Equipped with an Auto Channel function: it eliminates the noise figure when the transmission of a channel is interrupted, because the adjacent channels MER does not get damaged. It also allows to program the channels weeks or months before they are broadcast, since it eliminates noise figure until broadcasts begin.

It is realized in shielded housing with screw F-type connectors.

User interface via LCD display and a control knob.

It is equipped with 4 inputs, all amplified: 1 FM input with gain level regulator 0 ÷ 20 dB and 1 DAB/VHF input and 2 UHF inputs are equipped with AGC (automatic gain control).

You can enable on them the remote power supply, to 12 V or 24 V (max 100 mA for 3 inputs).

Equipped with an output and a monitor output for test (-30 dB).

The VHF band includes from E05 channel up to E12 channel (174÷230 MHz).

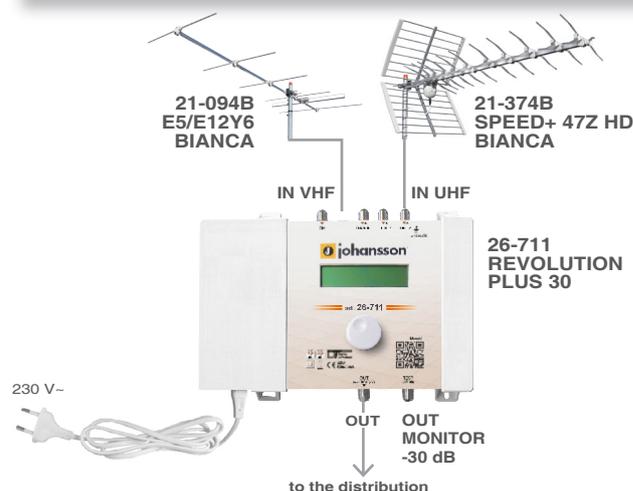
The UHF band includes from E21 channel up to E69 channel (470÷862 MHz).

Code	26-711	
Item	REVOLUTION PLUS 30	
No. of inputs	4	
Type of inputs	FM - DAB/V - U - U	
Working range	MHz	FM: 88 ÷ 108 VHF: 174 ÷ 240 UHF: 470 ÷ 862
Input level	dBµV	FM: 37 ÷ 77 VHF: 40 <sup>1</sup> ÷ 109 UHF: 40 <sup>1</sup> ÷ 109
Max output level	dBµV	FM: 113 <sup>2</sup> VHF/UHF: 115 (1 MUX) VHF/UHF: 105 (6 MUX)
No. channel selectable	>50	
Add channels	Single ch. or 2,3,4,5 adjacent ch.	
Conversions	Yes	
Gain	dB	FM: 15 ÷ 35 VHF: >60 UHF: >60
Gain adjustment	FM: 20 dB VHF and UHF: AGC	
Output level adjustment	dBµV	VHF/UHF: 85 ÷ 105 (95 default)
Slope adjustment	dB	15
Selectivity Δ 1 MHz	dB	35
Channel bandwidth options	optimized (default), Best MER or more selective filter	
Return loss	dB	10
Electrostatic discharge protection	All inputs	
Remote power supply	Vdc	12 or 24
Power Supply	mA	100 (for 3 inputs)
AC main tension	230 V~ ±10% 50Hz	
Power consumption	W	14
Isolation class	II	
SD port	mm	No
Dimensions (LxWxH)	mm	220x165x55
Packaging dimensions (LxWxH)	Kg	270x225x70
Packaging weight	Kg	1,175
Product weight	°C	0,070
Fit temperature	-5 ÷ +50	
Compliant to	EN 55083-2, EN 60065	

### Characteristics

- Can process more of 50 channels, with the possibility to convert the channel received in standard mode
- Read-out of input level strength: no need for field strength meter
- Sharpest filters on the market (>35dB on adjacent channels)
- Complete flexibility in assigning filters from any input
- Status LED for the indication of DC power presence
- Can be locked with a security code

### Example of application



<sup>1</sup> For 64QAM with code rate 3/4

<sup>2</sup> Maximum output level measured with the method 60 dB/IM3.

Technical data refer to a temperature of 25 °C

