FRACARRO FRPRO LIGHT 5G

Headend with 65dB gain and a 108dBµV output level.

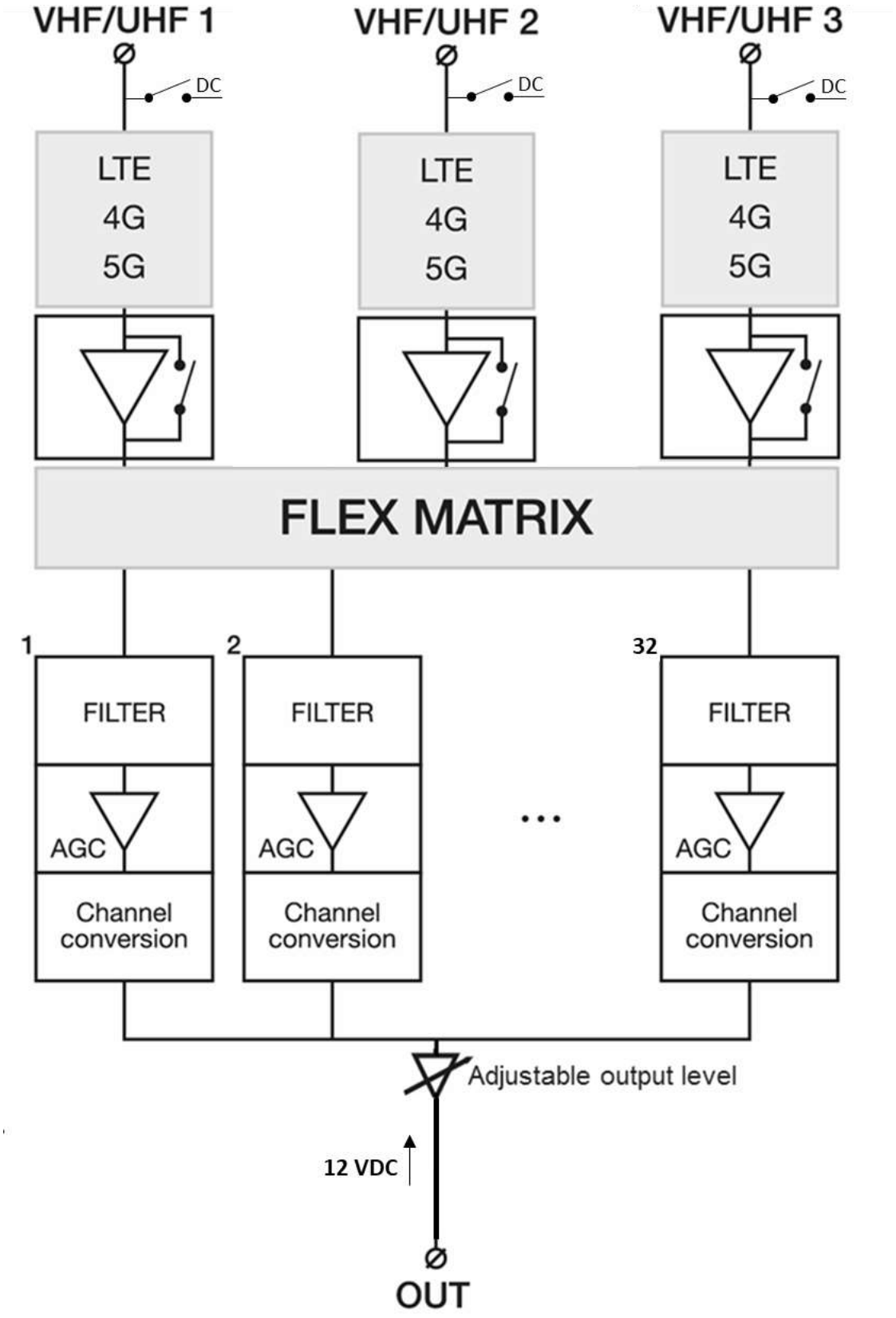
3-Input (VHF+DAB / UHF) smart self-programmable head-end for internal installation, 32 high selectivity filters.

Technical Info

- **Self Equaliser**; Scans all input signals and automatically filters, amplifies and equalises all receivable channels.
- **Repeated Mux Conversion**; When channels are mirrored on different inputs, it's possible to either maintain the stronger channel and re-locate weaker channels on the LTE band or to remove the weaker channels altogether.
- This product can filter, convert, amplify and distribute many DVB-T channels (32 filters).
- Perfect equalisation of output signals with (AGC) on every output mux.
- 4G and 5G filtering.
- Fully programmable via keypad.
- **65dB gain with a 108dBµV output level.**

FRPRO LIGHT 5G		
Code		287629
Input		
Inputs		3 x VHF/UHF
Input no.		3
Connectors		F female
Filter		Flexible Matrix 32/1
DAB, III Frequency	MHz	174 - 240
Frequency	MHz	470 - 694 (5G >40dB filter)
Input levels	dBµV	Self eq: 45 ÷ 109, Manual adj.: 37 ÷ 109
Output		
Outputs number		1
Connectors		F female
Mixed band	MHz	174 - 240 / 470 - 862
Output power (60dB/IM3)	dBµV	114
Output power (36dB/IM3)	dBµV	125
Output power with 1-6 MUX	dBµV	108
Output power with 15 MUX	dBµV	105
Output power with 32 MUX	dBµV	102
Max Gain	dB	>65
Channel Conversion		Any VHF-UHF channel to any VHF-S-UHF channel
Output level adjustment	dBµV	88-108 (VHF/UHF)
Additional VHF attenuator	dB	15 (VHF)
Cluster selectivity filter	dB	50@1MHz
MER RF	dB	III+DAB / UHF: 35
Return loss	dB	>10
Features		
Power supply	V	12-15 (Included)
Working temperature	°C	-5 to +50
Dimensions	mm	190x165x50
Conformity		EN60065: 2004-06, EN50083-2: 2002-05
Package Contents		
1 x FRPRO LIGHT 5G 1 x Power Injector 1 x Power Supply		

Internal Architecture



Reset to Default

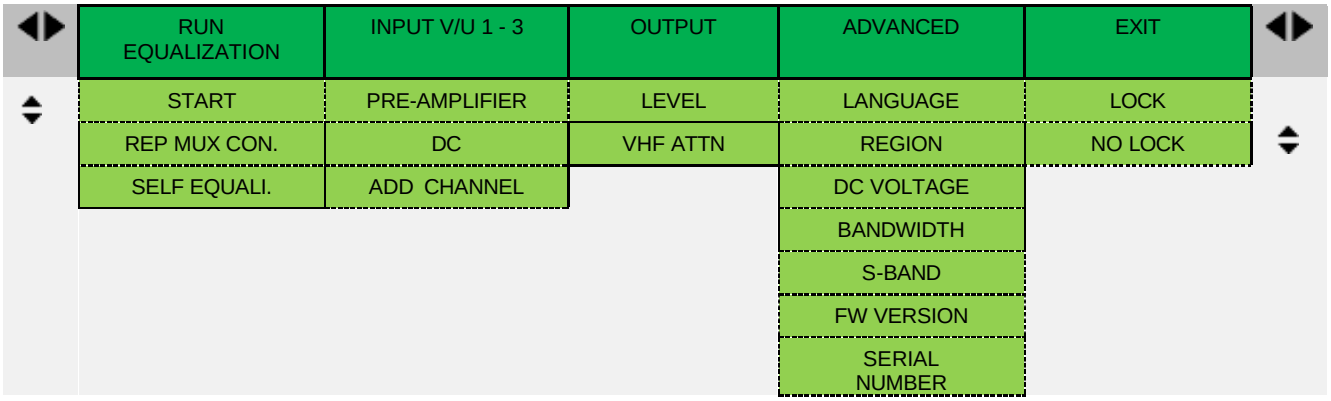
1. Unpower the unit, push and hold the “✔” button while you repower the unit.

2. Release the “✔” button when the display shows “RESET FINISHED”.

3. Set the country or region, this will determine the channel plan, language, etc.

Menu Tree

Push and hold the “✔” button for 2 seconds to access the menu.



Run Equalization

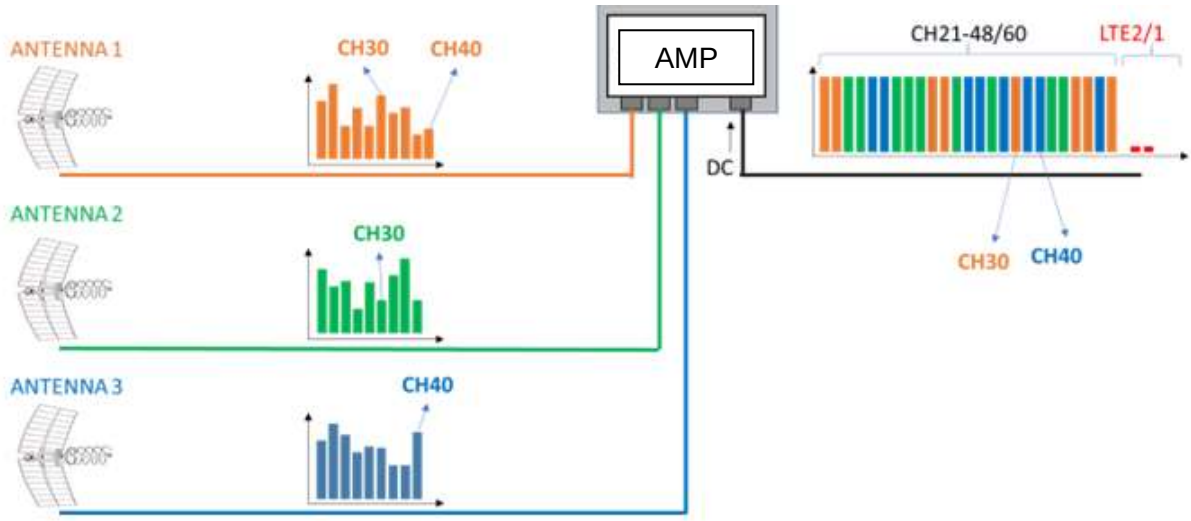
DISPLAY READOUT	EXPLANATION
	Tap the "✔" button to enter the self equalization menu.
	Toggle down to START and tap the "✔" button to start scanning.
	Scanning can take up to 1 minute.
	When scan is finished, a channel map is automatically created. All detected input channels will be output on the same frequency (non-converting). Changes can be made to the channel map via the "INPUT SETTINGS" menu if conversion is required.
	When channels are mirrored on different inputs, it's possible to either maintain the stronger channel and relocate weaker channels on the LTE band or to remove the weaker channels altogether. (see Repeated Mux Conversion) When "REP MUX CON" is ON the stronger channel is maintained and weaker channels are relocated on the LTE band. When "REP MUX CON" is OFF the weaker channels are filtered.
	When "SELF EQUALI" is ON, the device will automatically run a channel scan after a power interruption of 5 seconds or less. When "SELF EQUALI" is OFF, the device will never run a channel scan automatically, it must be run from the menu.

Repeated Mux Conversion

OFF: Weakest duplicate channel is filtered.

Example 1. **CH30 > CH30 ➔ CH30** is passed ➔ **CH30** is filtered

Example 2. **CH40 < CH40 ➔ CH40** is filtered ➔ **CH40** is passed



ON: Weakest duplicate channel is converted to LTE band.

Example 1. **CH30 > CH30 ➔ CH30** is passed ➔ **CH30** is converted to LTE band

Example 2. **CH40 < CH40 ➔ CH40** is converted to LTE band **AND** ➔**CH40** is passed