





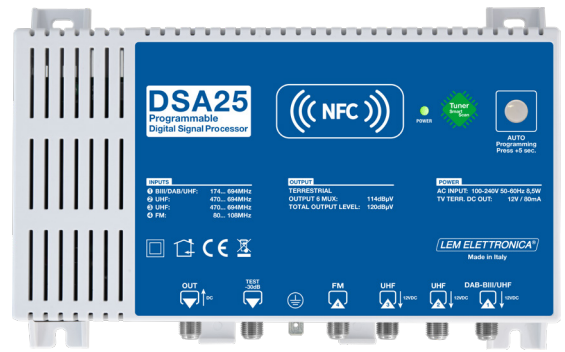


# DSA25

## AUTO-Programming Multiband Amplifier

-  **Direct manual configuration with smartphone**
-  **Passcode protection**
-  **4G/5G input protection**
-  **Total output level 120dB $\mu$ V**
-  **DIN rail and wall mounting**
-  **32 programmable digital filters with automatic gain control**



**Multi-input amplification unit with programmable digital filters for equalization and frequency conversion of DVB-T/T2 MUX.**

Advanced digital filtering with the possibility of choosing whether to program it with the **SmartScan** function (**integrated tuner**) automatically or via an application available for Apple and Android smartphones manually.

Integrated high efficiency power supply for low consumption and high reliability.

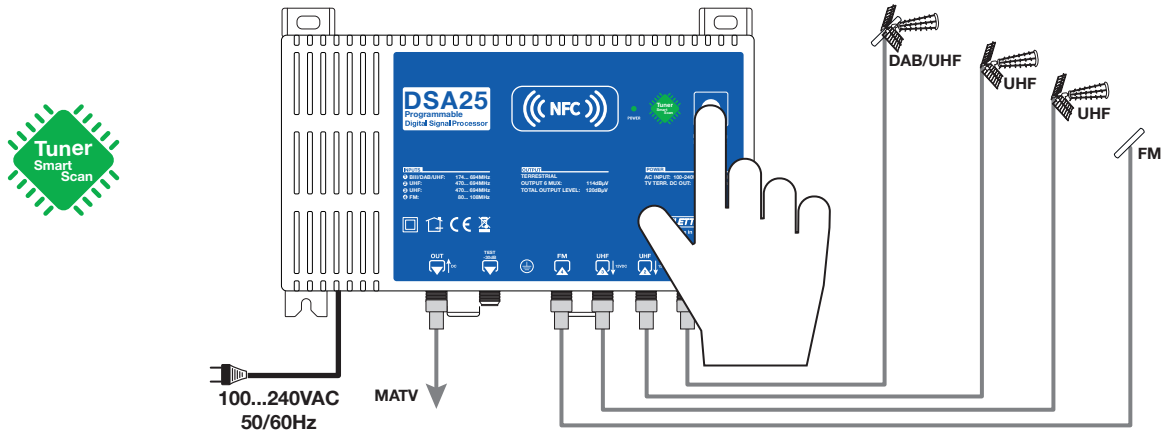


MODEL		DSA25
NUMBER OF INPUTS	4	1xFM / 1xBIII/DAB/UHF / 2xUHF
INPUTS FREQUENCY RANGE	MHz	FM (87,5... 108) BIII (170... 230) / DAB (170... 240) UHF (470... 694)
LTE PROTECTION		LTE 700 4/5G
SINGLE CHANNEL FILTERS		32
MAXIMUM INPUT LEVEL	dB $\mu$ V	FM 35... 90 - BIII/DAB 50... 110 - UHF ...50... 100
FM INPUT PREAMPLIFIER	dB	+16/0 (ON/OFF)
DAB/BIII/UHF INPUT PREAMPLIFIER	dB	+16/0 (ON/OFF)
UHF INPUT PREAMPLIFIER	dB	+16/0 (ON/OFF)
AUTOMATIC GAIN CONTROL RANGE	dB	40 dB
DIGITAL FILTERS SELECTIVITY	dB	35 @1MHz
VHF GAIN	dB	60
UHF GAIN	dB	60
OUTPUT LEVEL (ADJUSTABLE)	dB $\mu$ V	93... 114
BIII/DAB LEVEL ADJUSTMENT	dB	0... -10
UHF SLOPE ADJUSTMENT	dB	0... -5
TOTAL OUTPUT LEVEL DIN 45004B	dB $\mu$ V	120
TOTAL OUTPUT LEVEL 6 MUX	dB $\mu$ V	114
RETURN LOSS IN/OUT	dB	>12
TEST OUTPUT		1(-30 dB)
REMOTE POWER SUPPLY		12V / 80mA
INPUT VOLTAGE	V	100-240VAC 50/60Hz
MAXIMUM CONSUMPTION	W	8,5
OPERATING TEMPERATURE	°C	-5... 50
DIMENSIONS	mm	227 x 107 x 48

# Programming & Connection diagram

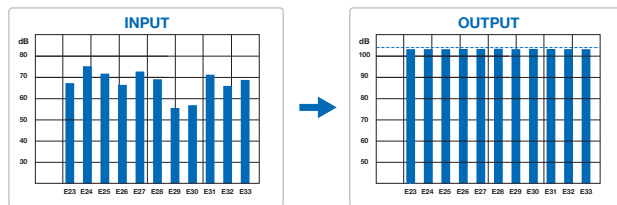
## SmartScan automatic programming

After connecting the antennas, simply press a button to start scanning the signals present in each input. Each received MUX is analyzed using the integrated DVB-T/T2 Tuner and is stored only if it has adequate quality requirements. If the same MUX is detected by different antennas, the one with the best quality parameters is chosen.



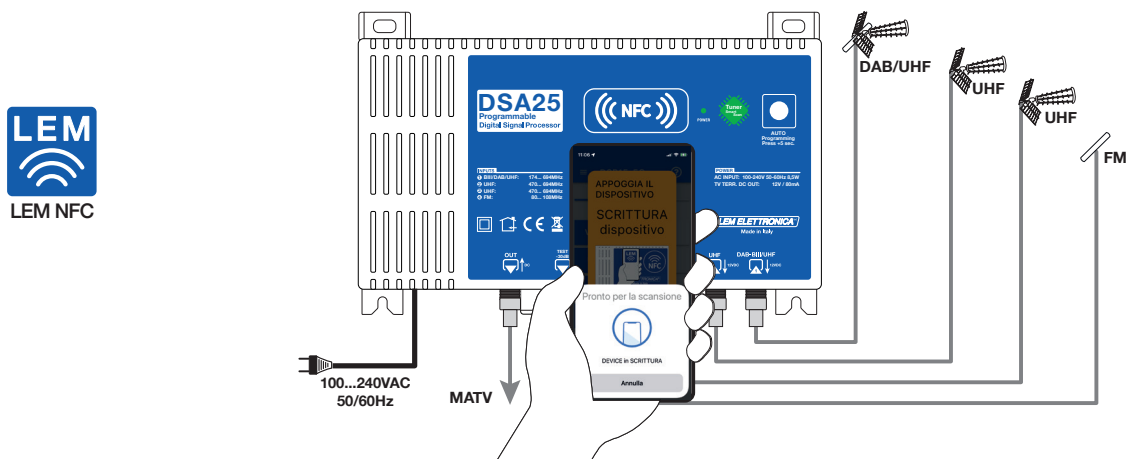
## Automatic filter equalization

After completing the search and storage of the received signals, each filter is optimized in amplitude and equalized to guarantee a perfectly linear and balanced output spectrum, reaching the maximum possible output level.



## Manual programming

With the LEM NFC smartphone application, it is possible to manually program all the parameters of the control unit or, more simply, modify them after performing the automatic search. The connection to the DSA25 control panel occurs wirelessly via NFC, eliminating the need to connect cables or use additional interfaces. It is possible to read the configuration even when the control panel is turned off and save it for future reuse.



## Automatic equalization and slope adjustment

Once the configuration is transmitted, each filter is automatically equalized to obtain a perfectly flat output spectrum. If required, a positive SLOPE slope can be added to compensate for the attenuation of the coaxial cables. The presence of automatic gain control C.A.G. It operates independently for each filter to guarantee an unaltered output signal over time.

