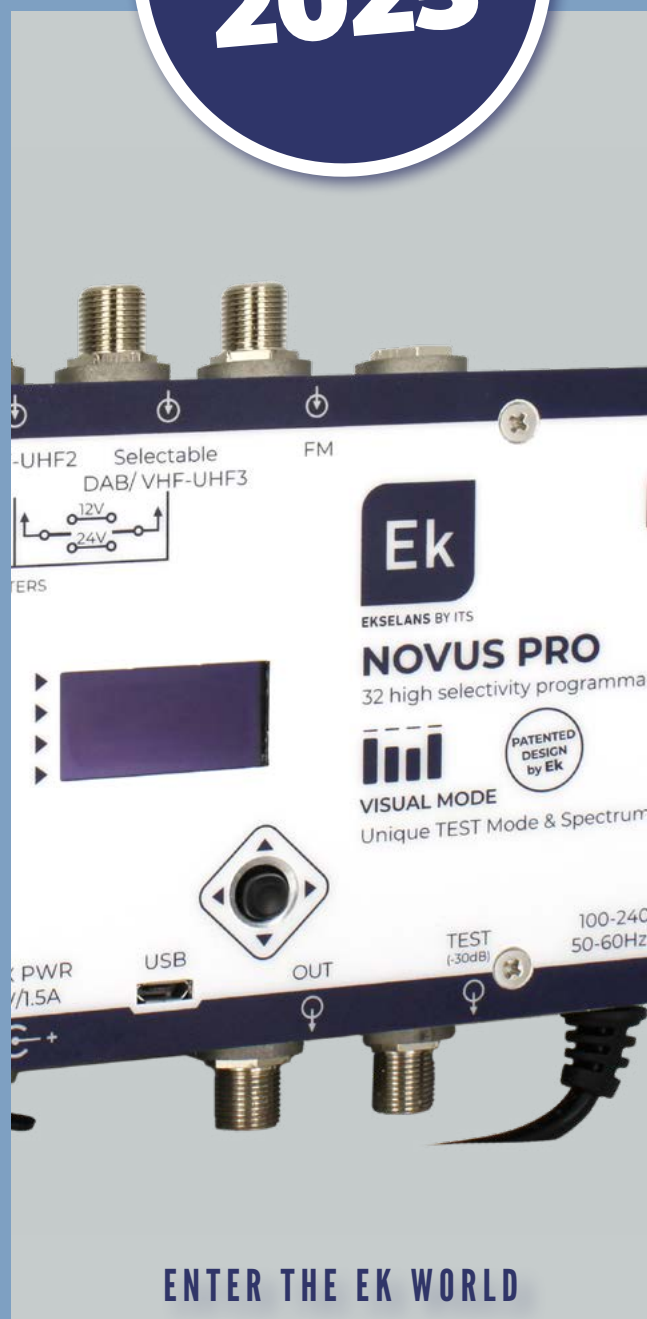




EKSELANS BY ITS



DIGITAL PROGRAMMABLE AMPLIFIERS SERIE NOVUS



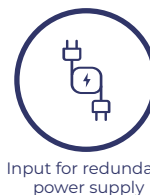
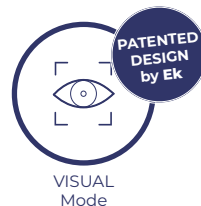
SERIE NOVUS

Our new range of NOVUS series digital programmable amplifiers redefines signal amplification and processing with an advanced architecture that integrates 32 ultra-selective digital filters and a series of advanced technical features, some of which are patented by EK. This range is divided into two lines: the ****mast series****, designed for installations close to the antenna, and the ****indoor series****, intended for indoor mounting, offering higher performance and more configuration options.

KEY TECHNICAL FEATURES:

- **SPECTRUM Mode:** Enables real-time RF spectrum visualization, allowing precise filter configuration through an intuitive multi-directional joystick control system.
- **VISUAL Mode:** Patented EK technology that allows filter configuration and editing directly from a field strength meter, streamlining operations during on-site installations.
- **TEST Mode:** Advanced diagnostic function to verify the status of the installation, ensuring proper signal distribution and enabling the detection of potential infrastructure issues.
- **STATUS Mode:** Real-time system status monitoring for improved operational control.
- **Channel Conversion:** Advanced digital processing that enables frequency remapping, optimizing signal distribution in installations requiring multiplex reorganization.
- **High-Resolution OLED Display:** Allows clear visualization of all critical system parameters, enhancing accuracy during setup and maintenance.
- **Redundant Power Supply Input:** Dedicated input to ensure uninterrupted operation in the event of a main power failure, increasing system reliability.
- **Next-Generation Hardware:** High-quality components that guarantee stability, reliability, and superior performance.
- **Extended Warranty**

The new generation of **programmable amplifiers** with advanced and patented modes that redefine the standard.



DIGITAL PROGRAMMABLE AMPLIFIERS

NOVUS MAST

REFERENCE	NOVUS MAST		
Code	071022		
	UHF1	UHF2	FM/BIII/DAB
Inputs	1	1	1
Frequency range	470-694MHz	470-694MHz	88-240 MHz
Max. gain	>50dB Autoreg	>40dB Autoreg	12dB
Input sensitivity (AUTOSEARCH) typ.	40dBuV	50dBuV	-
Number of filters	32*		-
Attenuation control (general)	0...20dB+AGC		0...20dB
Attenuation control (individual)	0...10dB		-
Max. input level (Total)	94dBuV	100dBuV	-
Max. output level	94dBuV (DIN45004B)		-
Max. output level (10MUX)	86dBuV		-
RF outputs	TER / TEST -6dB		
Noise figure	-		<6dB
Preamp power supply	-	12V 100mA máx	-
Power supply	12V DC*		
Power consumption	<4W		
Operational temperature range	-10...45°C		
VISUAL mode	Screenless filter adjustment and editing		-

*Power supply FA 12S 500 sold separately

- ✓ 3 inputs (1 x FM + BIII + DAB, 1 UHF, 1 UHF)
- ✓ 2 outputs (TER / TEST -6dB)
- ✓ Output level 94dBuV (DIN45004B) / 86dBuV (10MUX)
- ✓ 32 ultra-selective digital filters
- ✓ Gain >50dB auto-regulated
- ✓ Automatic search for digital multiplexes
- ✓ Joystick programming
- ✓ VISUAL mode for filter adjustment and editing without a screen (EK patented), using a field strength meter.
- ✓ Processing functionality for channel conversion
- ✓ Individual output level adjustment
- ✓ Real-time automatic gain control
- ✓ 12V preamplifier power supply
- ✓ easy magnetic system - patented and exclusive by EK.



Exclusive EK
magnetic
pre-fixing

NOVUS MAST

DIGITAL PROGRAMMABLE AMPLIFIERS

NOVUS

REFERENCE	NOVUS		
Code	071023		
	UHF1	UHF2	FM/BIII/DAB
Inputs	1	1	1
Frequency range	470- 694MHz	470- 862MHz	88-240 MHz
Max. gain	>65dB Autoreg	>55dB Autoreg	12dB
Input sensitivity (AUTOSEARCH) typ.	40dBuV	50dBuV	-
Number of filters	32*		-
Filter selectivity	Optimal/Smooth		-
Attenuation control (general)	0...20dB+AGC		0...20dB
Attenuation control (individual)	0...10dB		-
Slope	0...10dB		-
Max. input level (total)	90dBuV	100dBuV	-
Max. output level	110dBuV (DIN45004B)		-
Max. output level (10MUX)	105dBuV		-
RF outputs	TER / TEST -15dB		
Noise figure	-		<6dB
Preamp/LNB power supply	-	12V 100mA máx	-
Power supply	12V DC		
Power Supply Unit	12V / 1.2Amp (included)		
Power consumption	<5W		
Operational temperature range	-10...45°C		
Display	OLED		
Status monitor	Internal temperature		
TEST mode	Installation verification		
SPECTRUM mode	Quick filter visualization and editing		
VISUAL mode	Filter adjustment and editing without a screen		
Language	Spanish/English/French/Italian		
FW update	PC connection via USB		
Password	4-digit PIN		

- ✓ 3 inputs (1 x FM + BIII + DAB, 1 UHF, 1 UHF)
- ✓ 2 outputs (TER / TEST -15dB)
- ✓ Output level 110dBuV (DIN45004B) / 105dBuV (10MUX)
- ✓ 32 ultra-selective digital filters
- ✓ Gain >65dB auto-regulated
- ✓ Automatic search for digital multiplexes
- ✓ Joystick programming Simple navigation through the menu
- ✓ Processing functionality for channel conversion
- ✓ Individual output level adjustment
- ✓ Real-time automatic gain control
- ✓ 12V preamplifier power supply
- ✓ TEST mode to identify installation defects
- ✓ SPECTRUM mode for quick filter visualization and editing
- ✓ VISUAL mode for filter adjustment and editing without a screen (EK Patented)
- ✓ Status monitor for internal operation diagnostics



DIGITAL PROGRAMMABLE AMPLIFIERS

NOVUS PRO

REFERENCE	NOVUS PRO			
Code	071020			
	UHF	BIII/UHF	DAB/BIII/ UHF	FM
Inputs	1	1	1	1
Frequency range	470-694MHz	BIII 174-230MHz UHF 470-694/ 790/862MHz	DAB 195-240MHz BIII 174-230MHz UHF 470-694/ 790/862MHz	88-108 MHz
Max. gain	>75dB Autoreg	>65dB Autoreg		28dB
Input sensitivity (AUTO-SEARCH) typ.	40dBuV	50dBuV		-
Number of filters	32*			-
Filter selectivity	Optimal/Smooth			-
General attenuation control	0...20dB+AGC			0...20dB
Individual attenuation control	0...10dB			-
Slope	0...10dB			-
Max. input level	90dBuV	110dBuV		-
Max. output level	124dBuV (DIN45004B)			-
Max. output level (10MUX)	116dBuV			-
RF outputs	TER / TEST -30dB			
Noise figure	-			<6dB
Preamp/LNB power supply	-	0V/12V/24V 100mA máx		-
Power supply	100-240Vac / 50-60Hz			
Redundant power supply	12V (Jack 2.1mm)			
Power consumption	<10W			
Operational temperature range	-10...45°C			
Display	OLED			
Status monitor	Voltage and internal temperature			
TEST mode	Installation verification			
SPECTRUM mode	Quick filter visualization and editing			
VISUAL mode	Filter adjustment and editing without a screen			
Language	Spanish/English/French/Italian			
FW update	PC connection via USB			
Password	4-digit PIN			

* Number of filters for UHF inputs. If the DAB input is selected, 7 filters will be assigned to this band and 25 to the remaining UHF inputs.

- ✓ 32 ultra-selective digital filters
- ✓ Gain >70dB self-regulating
- ✓ Automatic search for digital multiplexes
- ✓ Programming with Joystick – Simple navigation through the menu
- ✓ Processing functionality for channel conversion
- ✓ Individual output level adjustment
- ✓ Real-time automatic gain control
- ✓ Preamplifier power supply: 12V and 24V
- ✓ LNB power supply (NOVUS PRO ICT)
- ✓ Suitable for common telecommunications infrastructure (ICT) installations with more than 30 outlets
- ✓ Input for optional redundant power supply
- ✓ TEST mode to identify installation defects
- ✓ SPECTRUM mode for quick filter visualization and editing
- ✓ VISUAL mode for filter adjustment and editing without a screen (EK Patented)
- ✓ Status monitor for internal operation diagnostics
- ✓ 4 inputs (1 x FM, 1 x VHF + DAB + UHF selectable, 1 x VHF/UHF selectable, 1 x UHF)
- ✓ 2 outputs (TER / TEST -30dB)
- ✓ Output level: 124dBuV (DIN45004B) / 116dBuV (10MUX)



DIGITAL PROGRAMMABLE AMPLIFIERS

NOVUS PRO ICT

REFERENCE	NOVUS PRO ICT				
Code	071021				
	UHF	BIII/UHF	DAB/BIII/UHF	FM	SAT
Inputs	1	1	1	1	1
Frequency range	470-694MHz	BIII 174-230MHz UHF 470-694/ 790/862MHz	DAB 195-240MHz BIII 174-230MHz UHF 470-694/ 790/862MHz	88-108 MHz	950-2150 MHz
Max. gain	>70dB Autoreg	>60dB Autoreg		24dB	40dB
Input sensitivity (AUTORESEARCH) typ.	40dBuV	50dBuV		-	-
Number of filters	32*			-	
Filter selectivity	Optimal/Smooth			-	-
General attenuation control	0...20dB+AGC			0...20dB	0...20dB
Individual attenuation control	0...10dB			-	-
Max. input level	90dBuV	110dBuV		-	-
Max. output level	120dBuV (DIN45004B)			-	-
Max. output level (10MUX)	112dBuV			-	119dBuV IMD3 -35dB
RF outputs	SAT+ TER/ TER				
Noise figure	-			<6dB	<8dB
Preamp/LNB power supply	-	0V/12V/24V 100mA máx		-	13V/18V/ Bypass & 0/22kHz 300mA máx
Power supply	100-240Vac / 50-60Hz				
Redundant power supply	12V (Jack 2.1mm)				
Power consumption	<15W				
Operational temperature range	-10...45°C				
Display	OLED				
Status monitor	Voltage and internal temperature				
TEST mode	Installation verification				
SPECTRUM mode	Quick filter visualization and editing				
VISUAL mode	Filter adjustment and editing without a screen				
Language	Spanish/English/French/Italian				
FW update	PC connection via USB				
Password	4-digit PIN				

* Number of filters for UHF inputs. If the DAB input is selected, 7 filters will be assigned to this band and 25 to the remaining UHF inputs.

- ✓ 32 ultra-selective digital filters
- ✓ Gain >70dB self-regulating
- ✓ Automatic search for digital multiplexes
- ✓ Programming with Joystick – Simple navigation through the menu
- ✓ Processing functionality for channel conversion
- ✓ Individual output level adjustment
- ✓ Real-time automatic gain control
- ✓ Preamplifier power supply: 12V and 24V
- ✓ LNB power supply (NOVUS PRO ICT)
- ✓ Suitable for common telecommunications infrastructure (ICT) installations with more than 30 outlets
- ✓ Input for optional redundant power supply
- ✓ TEST mode to identify installation defects
- ✓ SPECTRUM mode for quick filter visualization and editing
- ✓ VISUAL mode for filter adjustment and editing without a screen (EK Patented)
- ✓ Status monitor for internal operation diagnostics
- ✓ 5 inputs (1 x FM, 1 x VHF + DAB + UHF selectable, 1 x VHF/ UHF selectable, 1 x UHF, 1 x SAT)
- ✓ 2 outputs (TER / TER + SAT)
- ✓ DTT output level: 120dBuV (DIN45004B) / 112dBuV (10MUX)
- ✓ SAT output level: 119dBuV (IMD3-35dB)



ACCESSORIES

REFERENCE		FA 12S 500
Code		052007
Outputs	N°	2
Frequencies	MHz	47-862
Passband loss	dB	<4
Output voltage	Vdc	12
Maximum current	mA	500
Power supply	Vac	100/240



REFERENCE	CODE	DESCRIPTION
FA 2600P	071010	External power supply for redundancy in NOVUS PRO and NOVUS PRO ICT





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