



□ Everything is included. Efficiency, technology and the future.



Automatic Equalization System (AES)



PLL controlled



Sequential Automatic Gain Control



Antenna input resistance (EN-50083-3)



Automatic digital/analogue identification



Shielding 75 dB - UHF



**micromatv**

BETTER PICTURE DEFINITION **FUTURA**  
AND EXTRA PROTECTION AGAINST THE DIGITAL CLIFF.

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# microMatv

it's available now. **FUTURA**

Fagor guarantees exceptional picture quality without interruption, freezing or pixelation...  
A picture that looks just like real life.

Patent Pending



Band		FM	BI	BII/DAB	AUX	UHF1	UHF2	UHF3	1 <sup>st</sup> IF-SAT**
Bandwidth	MHz	87.5÷108	47÷68	174÷230	47÷68 130÷862	470÷862	470÷862	470÷862	950÷2150
No. of amplifiers		1	1	1	1	10			1
Filter width		Fix				Variable 1÷6 Channels			Fix
Configuration of no. of filters per input		No				10	0	0	No
						6	4	0	
						6	3	1	
						9	0	1	
Gain	dB	40*	40*	40*	23*	53*	53*	53*	37÷45
IN regulation	dB	•	25	23	•	23	23	23	•
OUT regulation	dB	25	20	20	20	20	20	20	20
AGC		No				Programmable			No
AGC range	dB	•	•	•	•	23			•
Selectivity ±20 MHz	dB	•	•	•	•	22			•
Noise figure	dB	6	6	8	15	8			15
Operational input level	Analogue	71÷101	70÷95	70÷93	90	60÷83			68÷88
	Digital	•	55÷80	55÷78	75	45÷68			
Power supply for previous	mA	Faston connector: 100 (24Vdc), UHF1 y UHF2: 30 (12 Vdc)						300 (0/13/17; 0/22 KHz)	
Decoupling between inputs	dB	•						20	

\* model 300: -4dB  
\*\* 1<sup>st</sup> IF SAT input only on MicroMATV futura 200 y MicroMATV futura 300 models

Model		MicroMATV futura 100	MicroMATV futura 200	MicroMATV futura 300		
Reference		35580	35552	35553		
No. of outputs		1	1	2		
Band		RF	RF+1 <sup>st</sup> IF SAT	RF	RF+1 <sup>st</sup> IF SAT	
Bandwidth	MHz	47÷68 130÷862	47÷68 130÷862	950÷2150	47÷68 130÷862	47÷68 130÷862 950÷2150
IM3 DIN45004B*** output level	dBµV	121	121	121	117	117 121
Packaging dimensions	mm	390 x 275 x 60				
Weight	Kg	4.5				

\*\*\* IM3 -60 dBc for TV PAL and -35 dBc for FM, DAB, 1<sup>st</sup> IF SAT and COFDM

## □ The advantage of being the first



Fagor invites you to discover the new MicroMATV Futura, once again we are ahead of the rest and what "is on its way" is already here.

Fagor, a pioneer in the development of the first Selective Programmable Amplifier in the world, a major milestone in TV reception, is once again the centre of attention as it presents the new MicroMATV Futura incorporating real time **automatic gain control**, which sets the output level for all active channels, irrespective of the variation in adjacent channels. It is the only programmable amplifier to offer this feature.

MicroMATV Futura offers a total protection against the digital cliff effect and guarantees exceptional picture quality, without interruption to viewing, picture freezing or pixelation.

Fagor offers you a picture that looks just like real life.

## □ This is what makes the difference: AGC-S

(Sequential Automatic Gain Control)



AGC-S gives the programmable amplifier a capacity of level regulation, similar to that of processors operating through IF. MicroMATV Futura guarantees reception in areas where the signal fades due to variations in atmospheric conditions in places that are far away from the transmitter. Fagor guarantees the reception margin and continuity of viewing thanks to its Sequential AGC system which adapts to every situation.

- **Watchful AGC-S:** permanent real time control of output level.
- **Programmable AGC-S:** independent control for each filter.
- **Intelligent AGC-S:** it recognizes automatically the type of channel, analogue or digital, and adjusts levels automatically. There is no need of any manual programming.

Besides the AGC-S function, MicroMATV Futura includes:

- **12 V/30 MA output** for two UHF inputs to amplify the @kitve device of the antenna and another **24 V/100 mA output** for a faston connector.
- **RS232 connection** for software updates.
- **TEST output** (MicroMATV Futura 100 model).

There are different models depending on installation requirements:

- MicroMATV Futura 100: 1 RF output.
- MicroMATV Futura 200: 1 RF + IF output.
- MicroMATV Futura 300: 2 outputs: 1 RF + IF and 1 RF.

## □ The "digital cliff effect": all or nothing



This is loss or instant recovery of signal reception in the case of digital TV compared with deterioration or gradual improvement in the case of analogue TV. It happens when the signal received contains more erroneous bits than FEC can correct. The advantage of this effect is that until signal loss, quality of reception does not deteriorate at all. The precaution to be taken into account is knowing the margin until the cliff effect and providing the installation with automatic gain control devices.

- **A system with brain:** MicroMATV Futura is intelligent, since it automatically distinguishes between digital and analogue channels and can adjust levels without the need for any additional calculation.
- **High capacity:** MicroMATV Futura has 10 UHF filter modules. Each filter allows between 1 and 6 channels to be programmed.
- **It's Fagor, it's easy:** the UCF 200 control unit can be used to program inputs, first and last channels, gain regulation and output level. The system also allows storage of up to 8 different configurations for one-touch programming of other equipment in record time.