D-Matrix

A339473 F_DMATRIX_EN. 3.

Satellite headend
compact and flexible
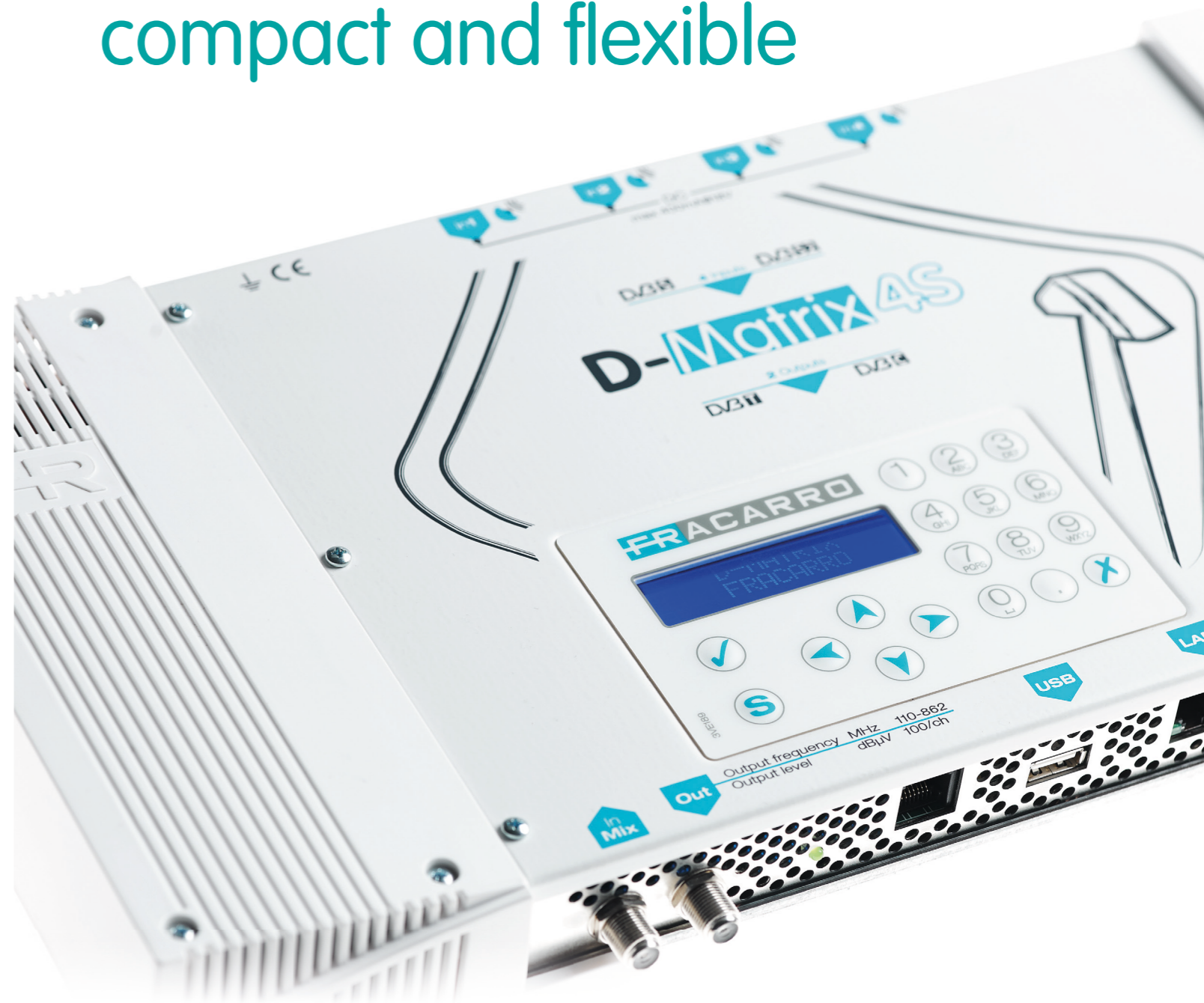
D-MATRIX
Satellite headend, digital matrix

D-matrix, the new compact and flexible headend made by Fracarro to distribute SD and HD digital contents (both encrypted and free to air) over a medium sized installation.

USB Info Channel

Thanks to the multifunctional USB port, videos (TS format) stored on a USB memory stick can be played.
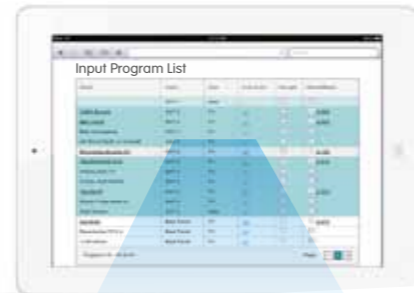
Input USB   Input Program List

MUX ad Hoc

Create a mux with the chosen programs from up to 4 Satellite transponders and manage all the descriptor parameters.

Input Program List

Output MUX 1   Output MUX 2

FPGA Technology

FPGA Technology enables a flexible and efficient way of upgrading a system, using the latest state of the art technology.

ARP 2.0

Assign a priority level to each program to guarantee continuity of service when a bit rate overflow occurs. All the programs will be sequentially restored when the global bit rate returns within the system limits.

Auto Remapping function

You can change a program in real time within the mux without the need to retune all the TV sets in the system.

Before	After
CH13	CH13

Output MUX 1   Output MUX 2

Web based interface

The headend can be remotely programmed anytime or anywhere (PC and mobile).

www

Technical features

Item		D-Matrix-4S	
Code		283131	
Front-End			
Input	No.	4	
Input frequency	MHz	950-2150	
Input level	dBµV	50-80	
LNB control	VDC, KHz	0/14/18, 0/22	
Demodulation		DVB-S2 (8-PSK, QPSK), DVB-S (QPSK)	
Symbol rate	MS/sec	2-45 (DVB-S/DVB-S2)	
AFC range	MHz	-5 to +5	
Output Modulation			
Generated muxes	No.	2	
Transmission Standard		DVB-T	DVB-C
Bandwidth	MHz	6, 7, 8	depends on the output SR that was set
Carriers		2k, 8k	-
Modulation		QPSK, 16-QAM, 64-QAM	16-QAM, 32-QAM, 64-QAM 128-QAM, 256-QAM
Guard interval		1/4, 1/8, 1/16, 1/32	-
FEC		1/2, 2/3, 3/4, 5/6, 7/8	Reed Solomon (204, 188)
Symbol rate	Msymb	-	1000 to 6999
RF Output			
Output frequency	MHz	111-862	
Output channel		S2-E69	
Typical RF output level	dBµV	100	
Typical output MER	dB	36	
General features			
Frequency mix input	MHz	47-862	
Insertion loss mix input	dB	2,5	
Mains supply	Vac, Hz	184-264, 50/60	
Power consumption	W	42 (with 2 CAM inserted)	
Connection type		F-Female (RF), RJ45, USB (only TS format)	
Common Interface		2 x PCMCIA (Standard EN50221, TS10169)	
Dimensions	mm	360x230x54 (without CAM), 385x230x54 (with CAM)	
Operating temperature	°C	-5 to +55 (without CAM)	
Compliance		EN50083-2, EN60065	

USB multifunctional port

Video playback
Firmware upgrading
Upload/download configuration settings

FRACARRO
shaping the future