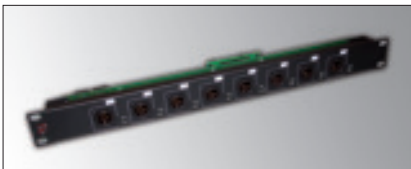# AD System

The modular concept of the AD Distribution System allows the assembly of Stage Boxes tailored to the customers' exact requirement providing an open system which is adaptable to future possible needs. With the basic elements such as the 8 channels INPUT and OUTPUT modules, AD Split and ADF multipin modules a wide range of configurations are obtainable. The internal connections with ribbon connectors and cables ensure maximum flexibility to the system, while the multipin LK connectors offer a perfect connection stability for decades.
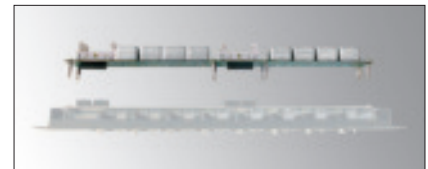

AD OUTPUT Modules

The output module has eight male XLRs on the front panel and one 26 pin ribbon cable connector mounted on a PCB.

AD INPUT Modules

The standard input panels feature a Ground Lift switch for each channel and a further PCB (AD Link) connected on "Switch out" to set each channel in parallel to three ribbon cable connectors. The unit features a second ribbon exit called "Direct Out" dedicated to the mixer to assign the Phantom Power.
The Ground Lift switch on the AD 8 IN acts only on "Switch out", providing Ground separation to the second output (Direct Out) which can be used to assign the 48 Vdc Phantom power on each channel.
The input modules are available in two versions: the AD 8 IN and the AD 8 IN 8 J, with eight Combo connectors allowing XLR input (balanced signals) or a jack plug (unbalanced signals). The unbalanced signals are balanced by transformers.
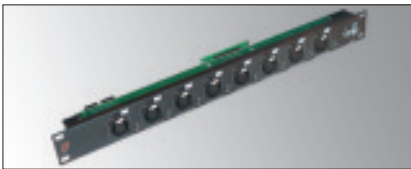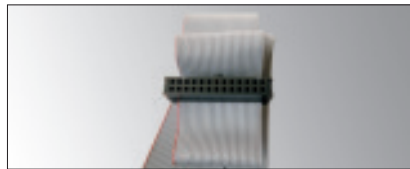
ADF Modules

ADF 2RU panels use the capability of the multi-pin LK range to connect from 8 up to 64 audio lines using only one cable.
The 26 pin ribbon cable connectors allow XLR connections. They can be used for FOH, Monitor, REC, AUX or other connections, as well as Sub-snake boxes.

AD Flat

The connection between the AD and ADF modules is made with ribbon extension cables. They are also available in different lengths on request.
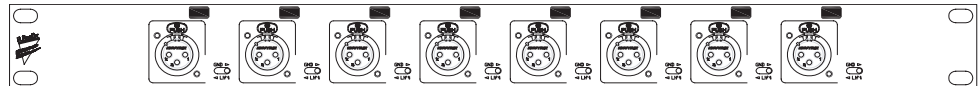
AD SPLIT

The AD SPLIT modules have been purposely engineered for highly professional applications. They provide a clean split signal thus maintaining the same quality in multiple outputs over long distances. Each Input channel is divided by the AD SPLIT module into 4 outputs, two are in physical parallel, with and without Ground disconnection (Ground Lift). The other two are individually split by high quality triple-shielded transformers.
The Ground Lift switch on the AD 8 IN acts as "Switch out", providing Ground separation to the second parallel output (Direct Out) which can be used to assign the 48 Vdc Phantom power on each channel.

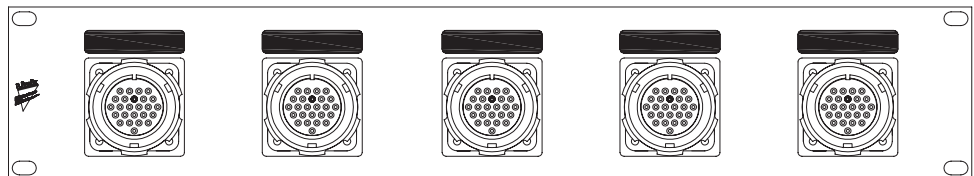| AUDIO "SPLITTER" TRANSFORMER (TRIPLE FARADAY SHIELDS)		
Transformer characteristics	Transformer ratio	01:01:01
	Induttance primary circuit at 100 Hz, 1V	> 12 Hz
	Resistance primary circuit	56 ohm
	Resistance primary circuit 1	140 ohm
	Resistance primary circuit 2	135 ohm
	Distortion (THD) ah 50 Hz	< 0.05% (+30 dbU) < 1% (+13 dbU)
	Commod-made rejection ratio (CMRR) 150 ohm balanced source	≥ 70 db (1 KHz) ≥ 50 db (20 KHz)

AD System

AD 8 ch System Audio Distribution

AD 8 IN	AD 8 ch. Input module	**AD 8 OUT**	AD 8 ch. output module
AD 8 IN GL	AD 8 ch. Input module with Ground Lif	**AD 8 OUT GL**	AD 8 ch. module with Ground Lift
AD 8 IN 8 J GL	AD 8 ch. Input module with transformer and Ground Lift	**AD D-SUB A**	AD 8 ch. SUB-D 25 Interface module for Analogue Exits
AD 8 IN-F GL	AD 8 ch. Input module with Ground Lift and European-style terminal block	**AD D-SUB D**	AD 8 ch. interface module for Digital Exits
		AD FL 26 30	AD flat cable extension 30 cm
AD LINK	AD 8 ch. link module 1-IN 3-OUT (spare part)	**AD FL 26 40**	AD flat cable extension 40 cm
		AD SPLIT II	AD splitter 8 IN 16+16 OUT Ground Lift with triple shield transf.

AD 8 IN GL

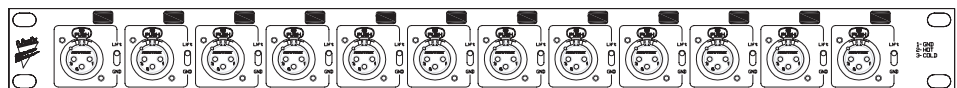|			
ADF DF 25 1	ADF 2U panel + 1 LK 25 panel female with 60 cm ribbon cable	**ADF DM 85 1**	ADF 2U panel + 1 LK 85 panel male 24 ch. with 70 cm ribbon cable
ADF DF 25 2	ADF 2U panel + 2 LK 25 panel female with 60 cm ribbon cable	**ADF DM 85 2**	ADF 2U panel + 2 LK 85 panel male 24 ch. with 70 cm ribbon cable
ADF DF 25 3	ADF 2U panel + 3 LK 25 panel female with 60 cm ribbon cable	**ADF DM150 148**	ADF 2U panel + 1 LK 150 panel male 48 ch. with 70 cm ribbon cable
ADF DF 25 4	ADF 2U panel + 4 LK 25 panel female with 60 cm ribbon cable	**ADF DM150 248**	ADF 2U panel + 2 LK 150 panel male 48 ch. with 70 cm ribbon cable
ADF DF 25 5	ADF 2U panel + 5 LK 25 panel female with 60 cm ribbon cable	**ADF DM200 164**	ADF 2U panel + 1 LK 200 panel male 64 ch. with 70 cm ribbon cable
		ADF DM200 264	ADF 2U panel + 2 LK 200 panel male 64 ch. with 70 cm ribbon cable

ADF DF 25 5

AD 12 ch System Audio Distribution

AD 12 IN	AD 12 ch. Input module	**AD 12 IN/SPL-F GL**	AD 12 ch. Input with transf., G-Lift and European-style terminal block
AD 12 IN GL	AD 12 ch. Input module with Ground Lift		
AD 12 IN/SPL GL	AD 12 ch. input module with transformer and Ground Lift	**AD LINK 3PT40**	AD 12 ch. link module 1-IN-3-OUT (spare part)
		AD 12 OUT	AD 12 ch. output module

AD 12 IN GL

AD FL 40 30	AD flat cable extension 30 cm	**ADF DM150 148-12**	ADF 2U panel + 1 LK 150 panel male 48 ch. with 70 cm ribbon cable
AD FL 40 40	AD flat cable extension 40 cm		
ADF DF 37 1	ADF 2U panel + 1 LK 37 panel female with 60 cm ribbon cable	**ADF DM150 248-12**	ADF 2U panel + 2 LK 150 panel male 48 ch. with 70 cm ribbon cable
ADF DF 37 2	ADF 2U panel + 2 LK 37 panel female with 60 cm ribbon cable		
ADF DF 37 3	ADF 2U panel + 3 LK 37 panel female with 60 cm ribbon cable	**ADF DM200 164-12**	ADF 2U panel + 1 LK 200 panel male 64 ch. with 70 cm ribbon cable
ADF DF 37 4	ADF 2U panel + 4 LK 37 panel female with 60 cm ribbon cable		
ADF DM 85 1-12	ADF 2U panel + 1 LK 85 panel male with 60 cm ribbon cable	**ADF DM200 264-12**	ADF 2U panel + 2 LK 200 panel male 64 ch. with 70 cm flat cable70 cm ribbon cable
ADF DM 85 2-12	ADF 2U panel + 2 LK 85 panel male with 60 cm ribbon cable		

ADF DM 85 2-12