

# GUÍA DE ESTUDIO

*Nivel Básico*

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ESCUELA DE GRABACIÓN Y POST-PRODUCCIÓN

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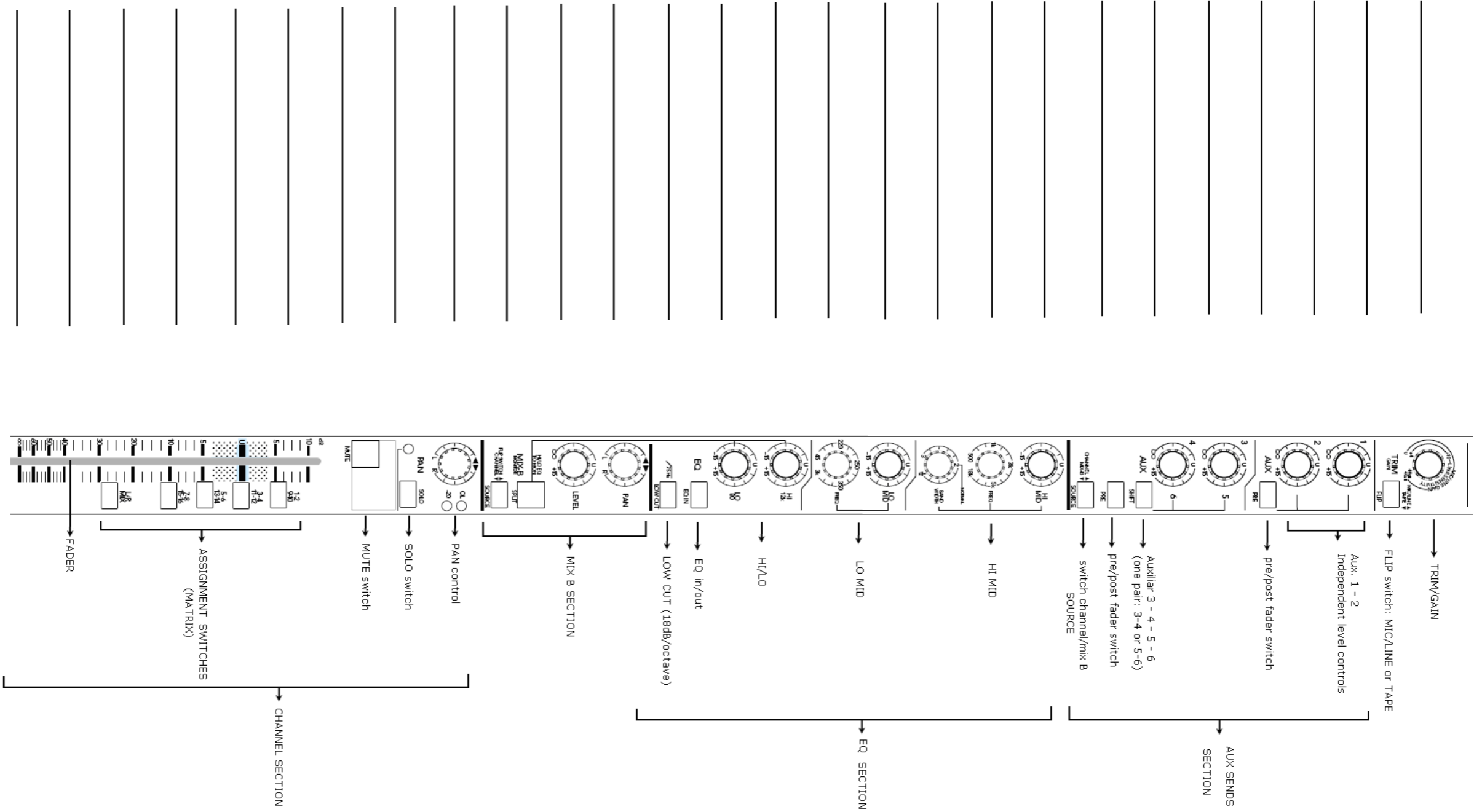
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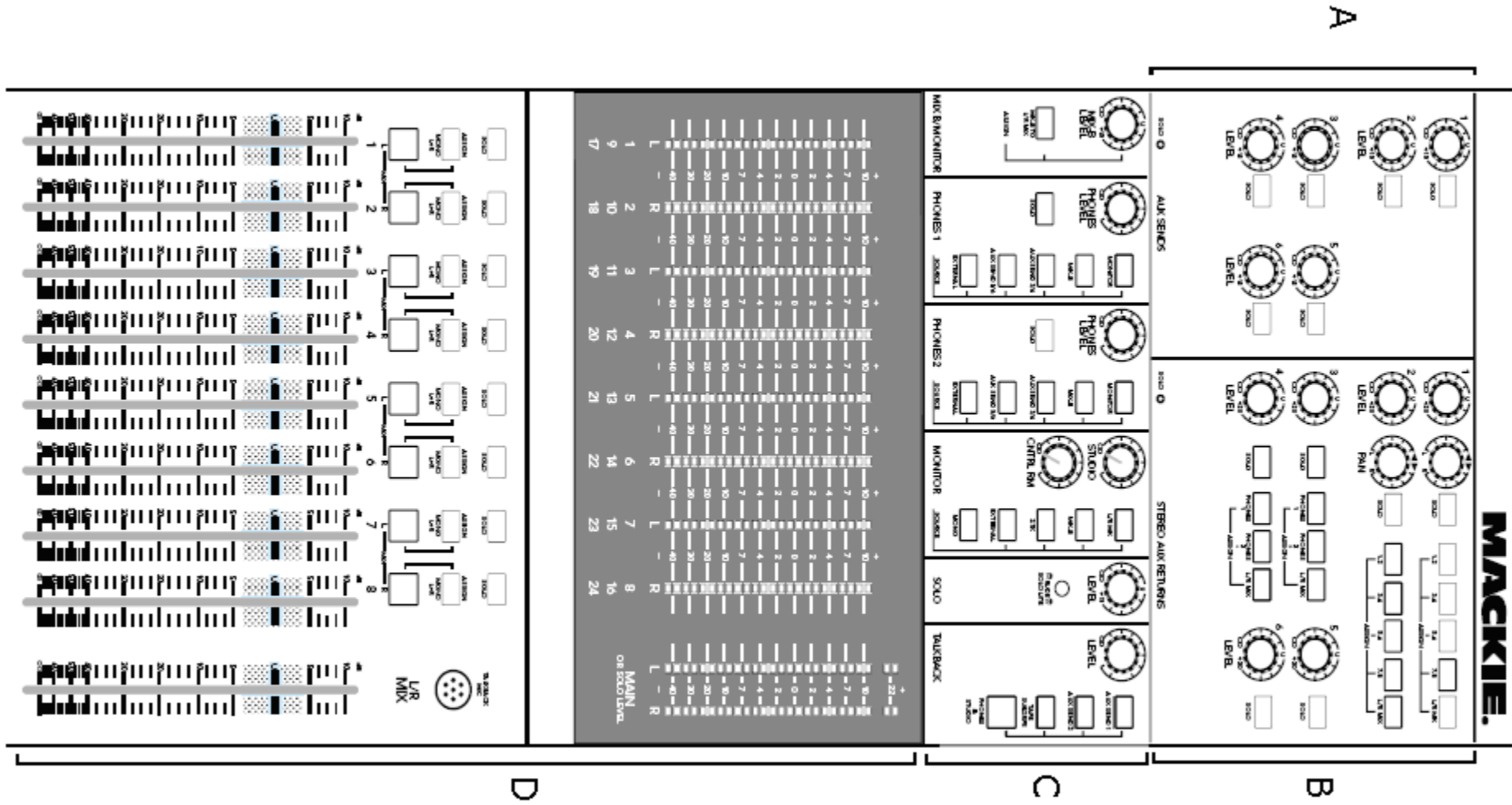
<i>Bibliografía recomendada</i>	-----	41
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Mackie 32.8

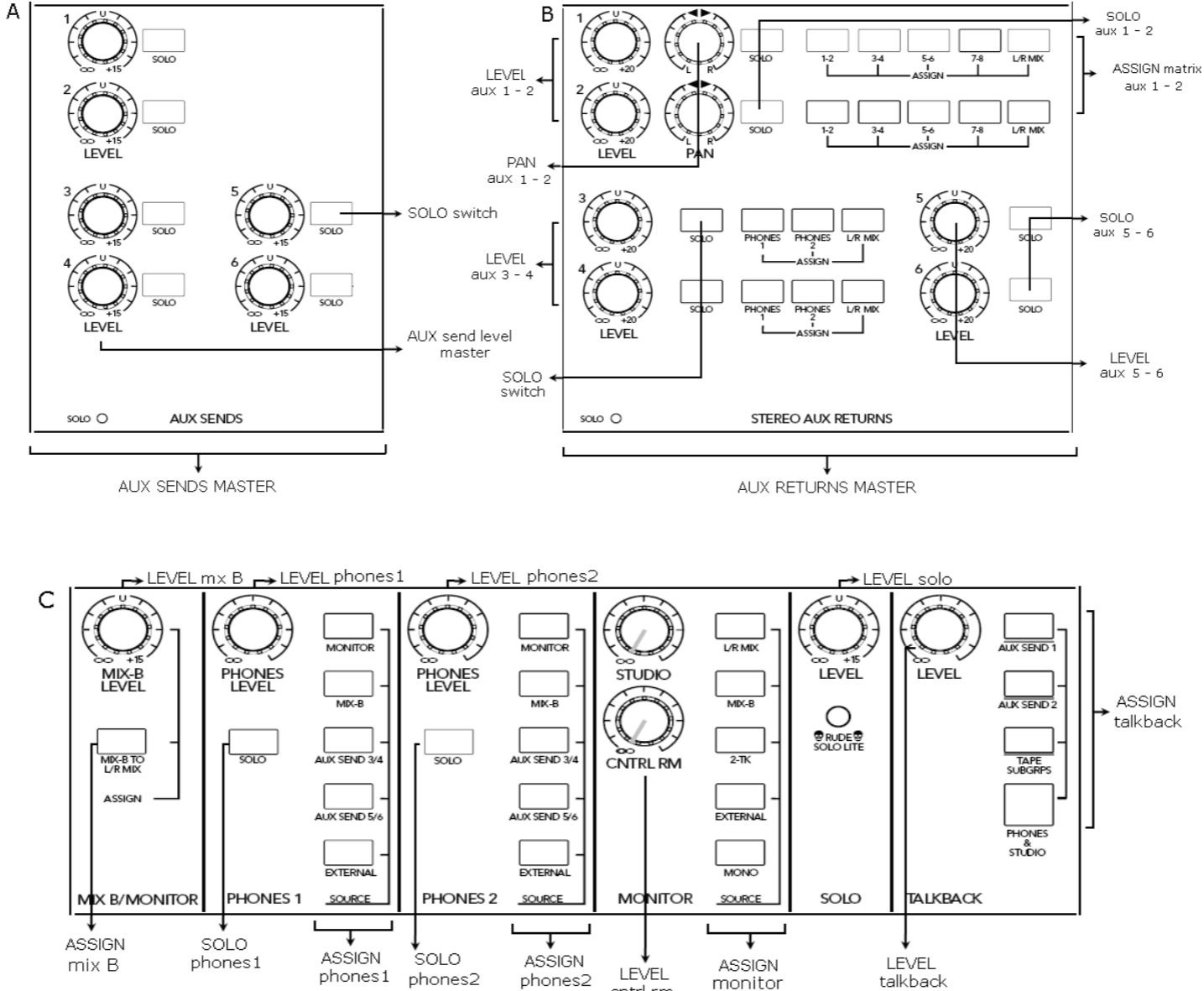
# Channel



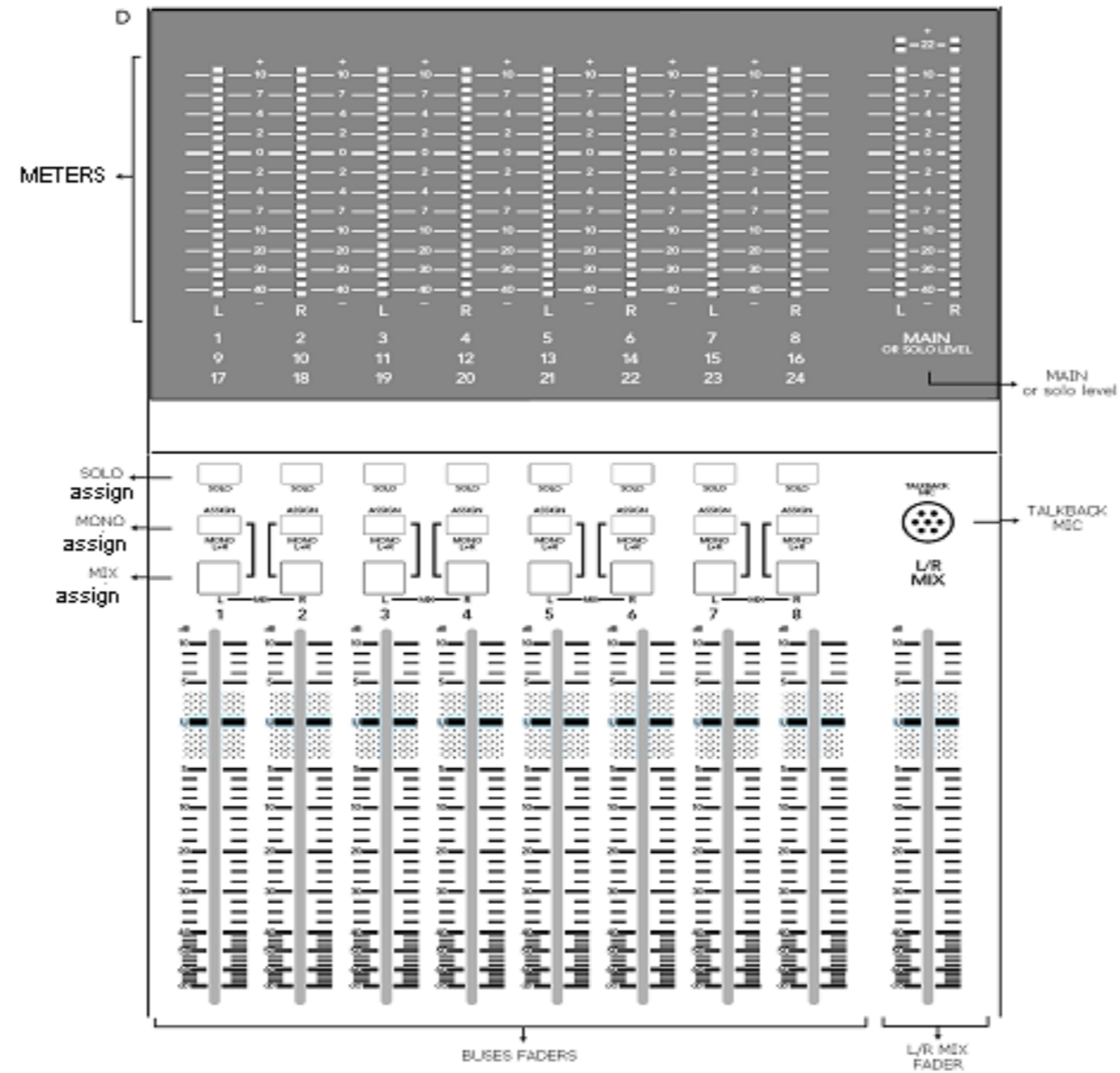
# Mackie 32.8 Master Section



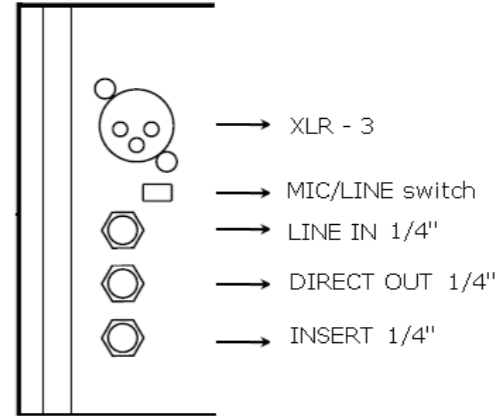
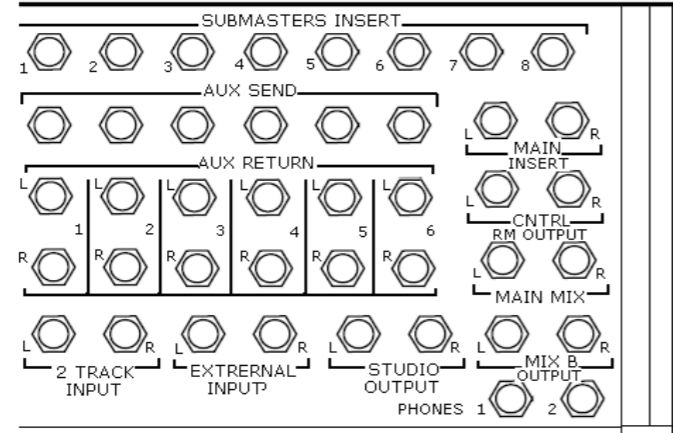
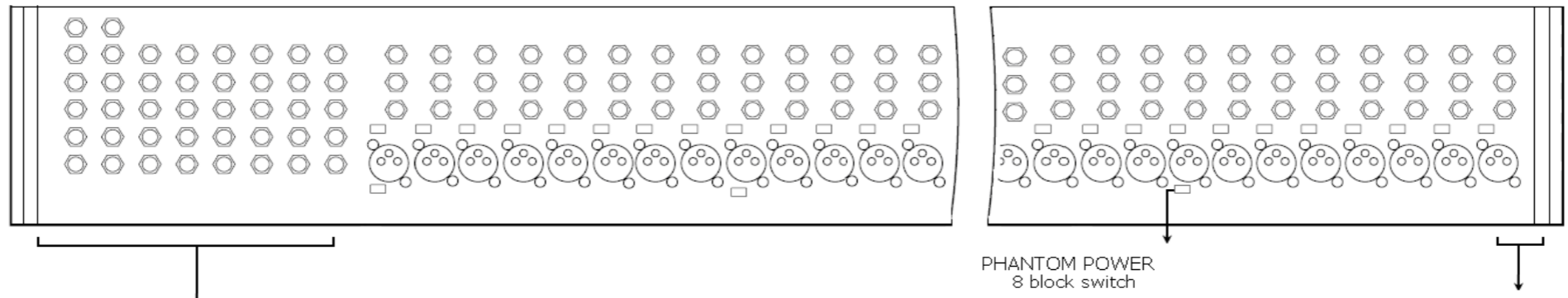
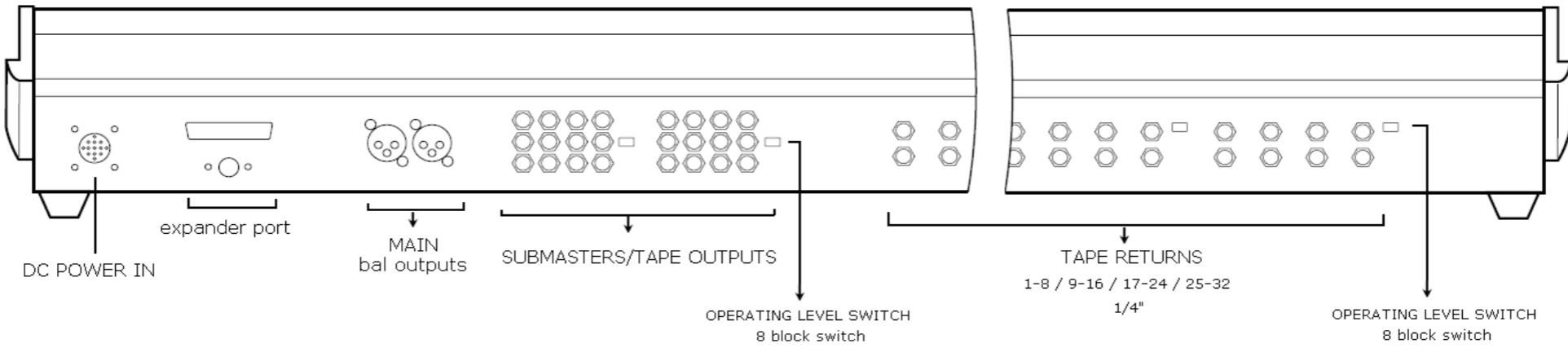
# Mackie 32.8 Master Section



# Mackie 32.8 Master Section



# Mackie Rear Panel



# - Interfaces de Grabación/Mezcla -

Antelope Orion 32 (ESTUDIO B)

Focusrite Scarlett 18i20 (ESTUDIO D)

# Antelope Orion 32



# Focusrite Scarlett 18i20



# Estudio B



## Track Sheet

<b>NIVEL:</b>			<b>DIA:</b>			<b>HORA:</b>		
<b>Proyecto:</b>				<b>Tema:</b>				
Inicio: hs / m / s		Inicio: hs / m / s		Inicio: hs / m / s		Inicio: hs / m / s		
Fin: hs / m / s		Fin: hs / m / s		Fin: hs / m / s		Fin: hs / m / s		
1	2	3	4	5	6	7	8	
9	10	11	12	13	14	15	16	
17	18	19	20	21	22	23	24	
<b>TECSON</b>		<b>Observaciones:</b>						
		<b>Toma OK N°:</b>						

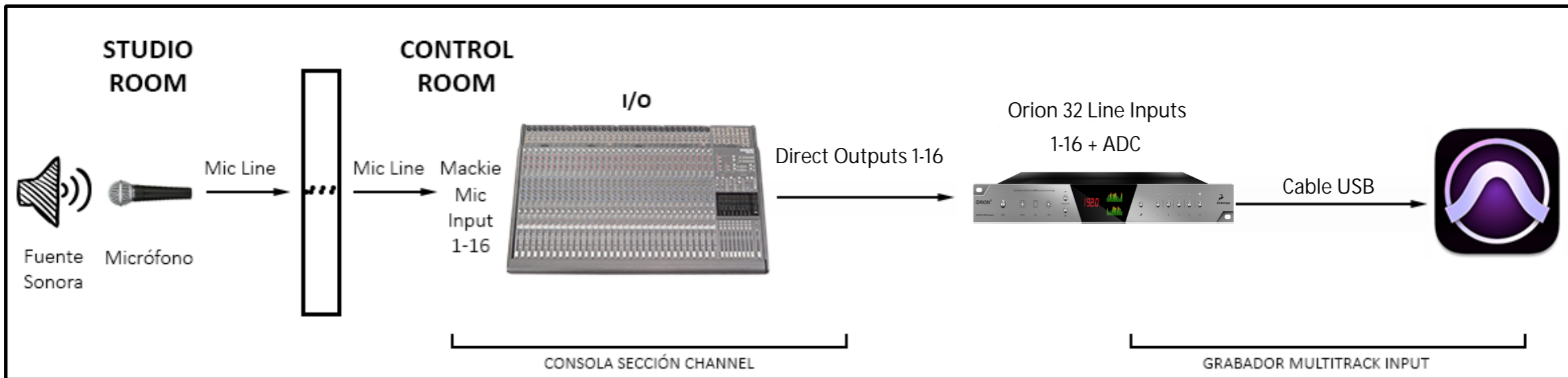




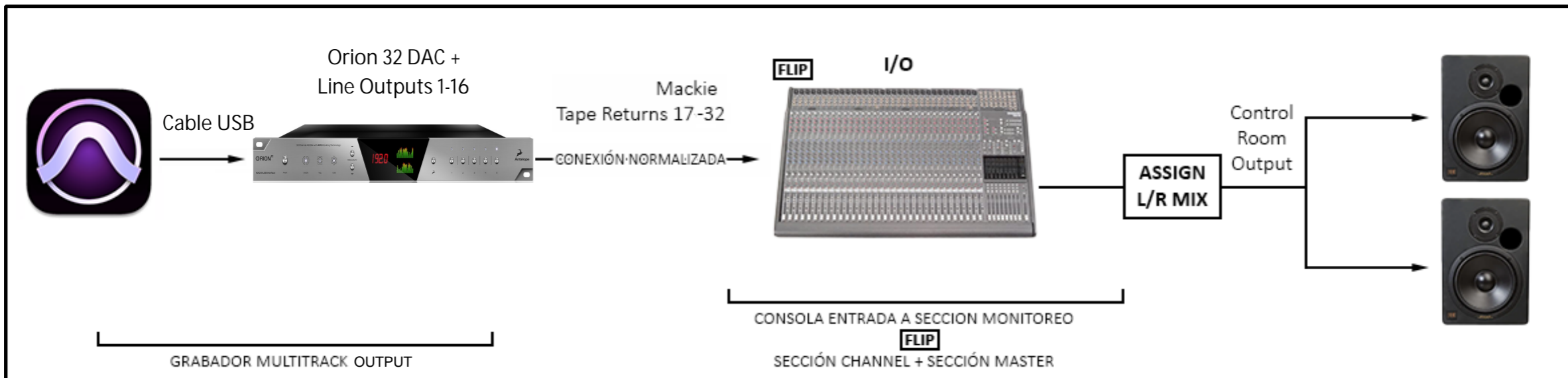


# -ESTUDIO B- SIGNAL FLOW ETAPA GRABACION

## Ruta de Canal (Mic)

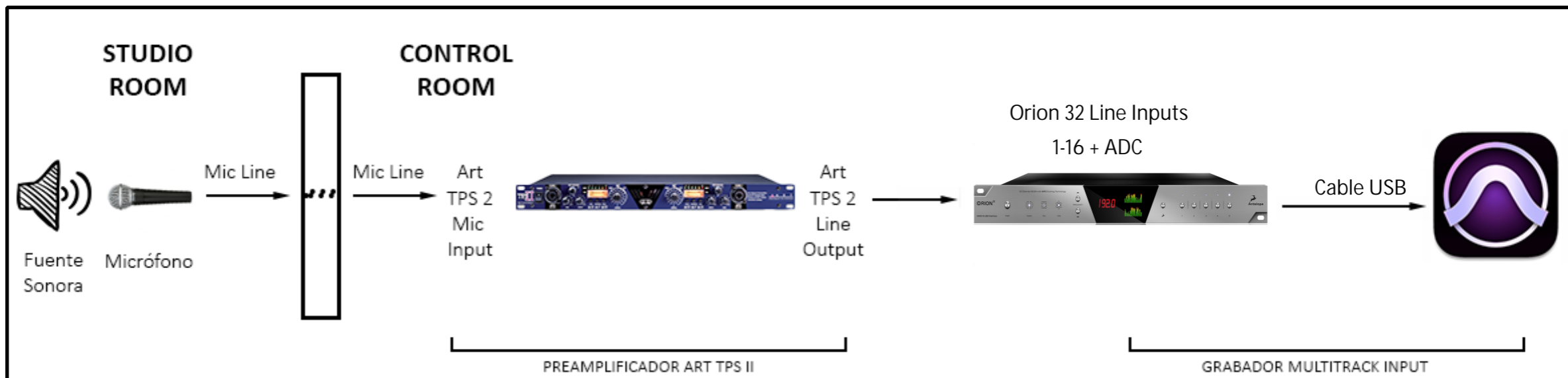


## Ruta de Monitoreo (operando en seccion Channel):

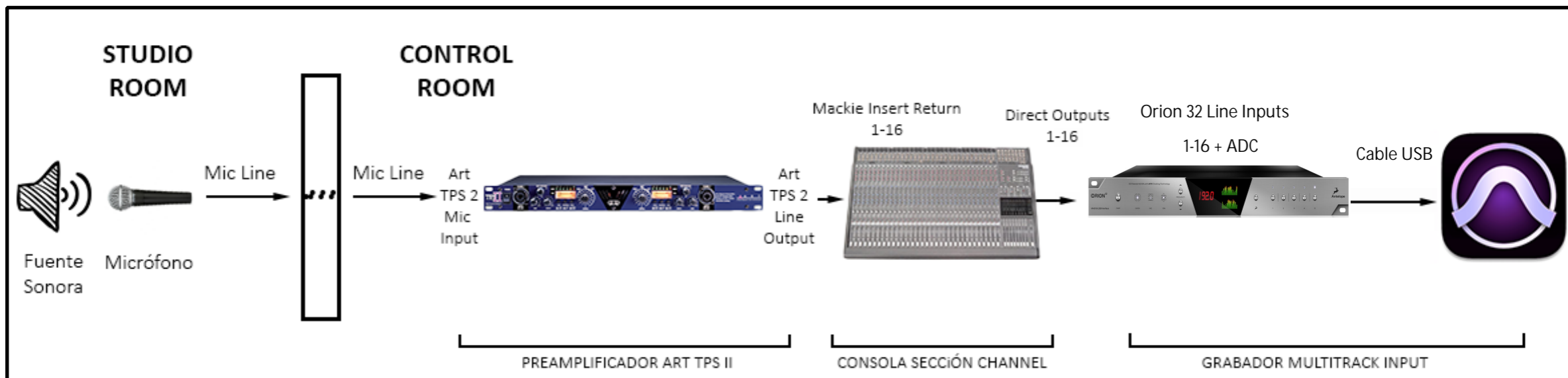


## -ESTUDIO B- SIGNAL FLOW ETAPA GRABACION

Ruta de Canal (Mic) utilizando Preamp Externo

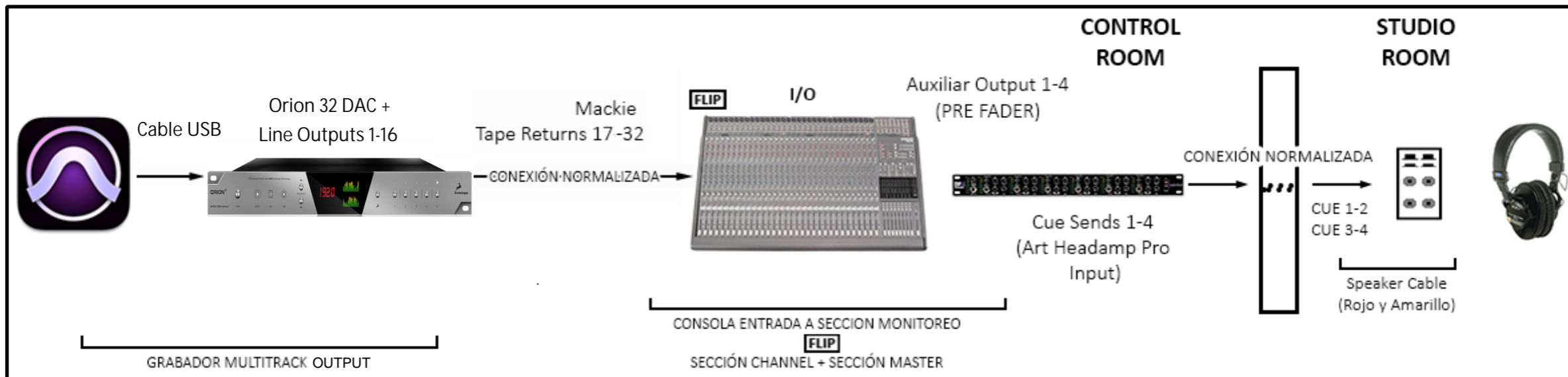


Ruta de Canal (Mic) Utilizando el Preamp Externo y la Consola:

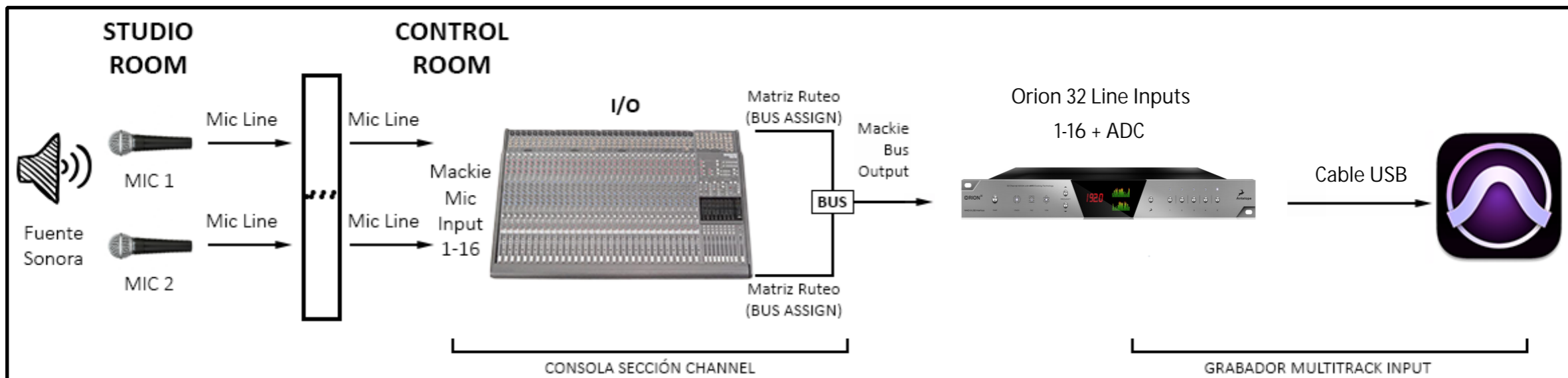


## -ESTUDIO B- SIGNAL FLOW ETAPA GRABACION

Ruta de Cue:

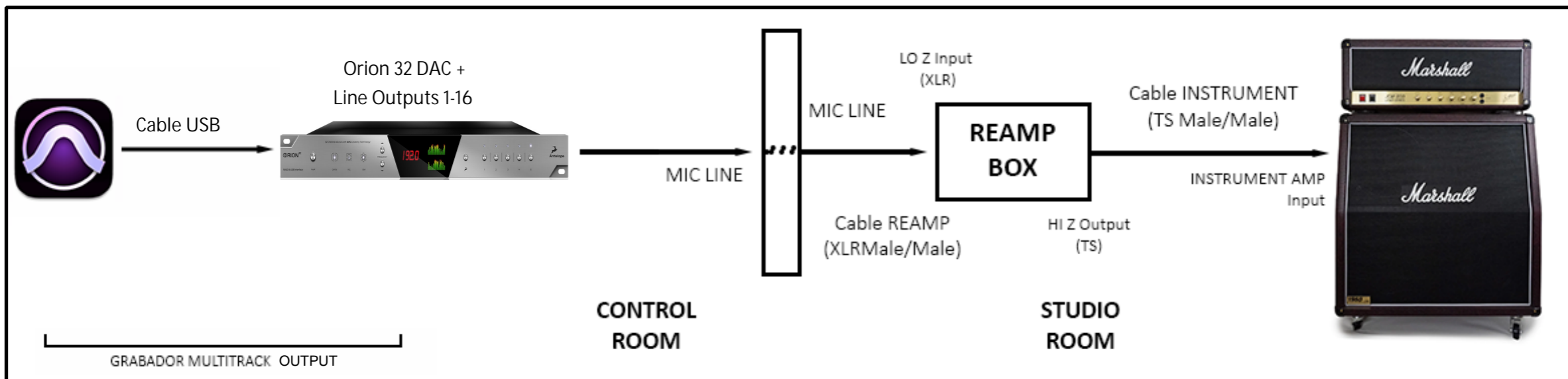


Ruta de Grabación por buses:

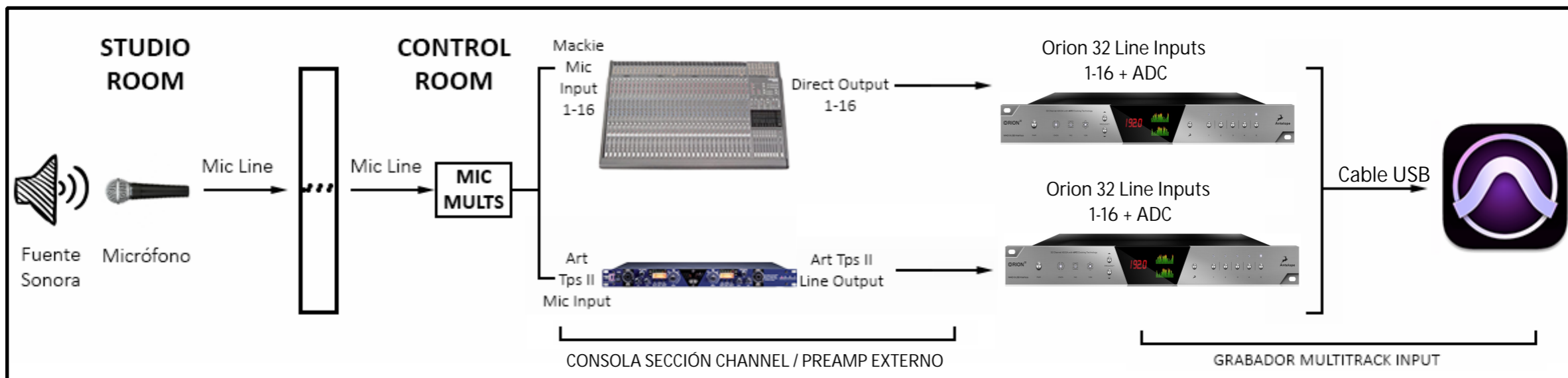


## -ESTUDIO B- SIGNAL FLOW ETAPA GRABACION

Ruta de Reamp (REAMP BOX):

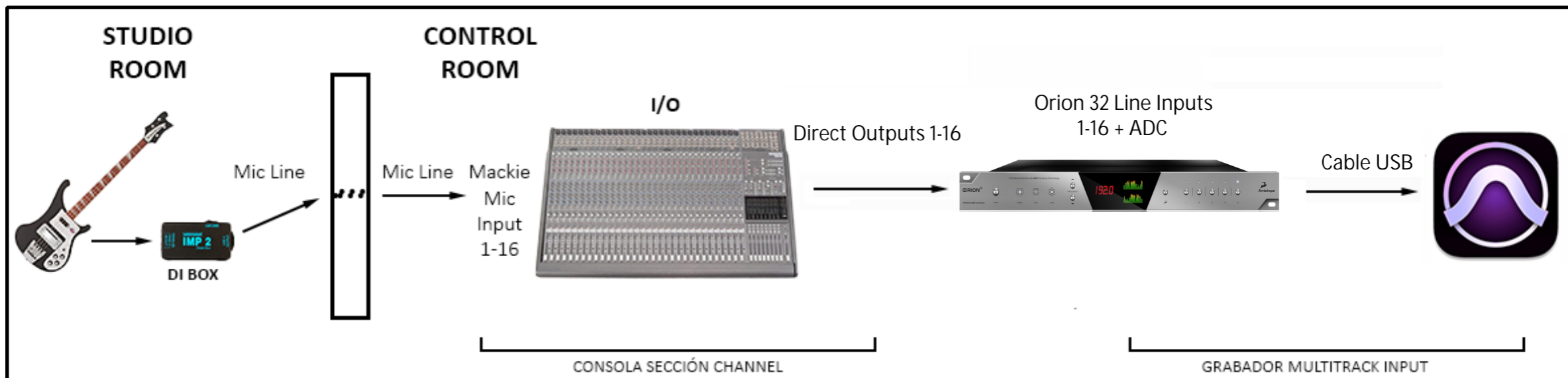


Ruta de Comparación A/B de Preamps:

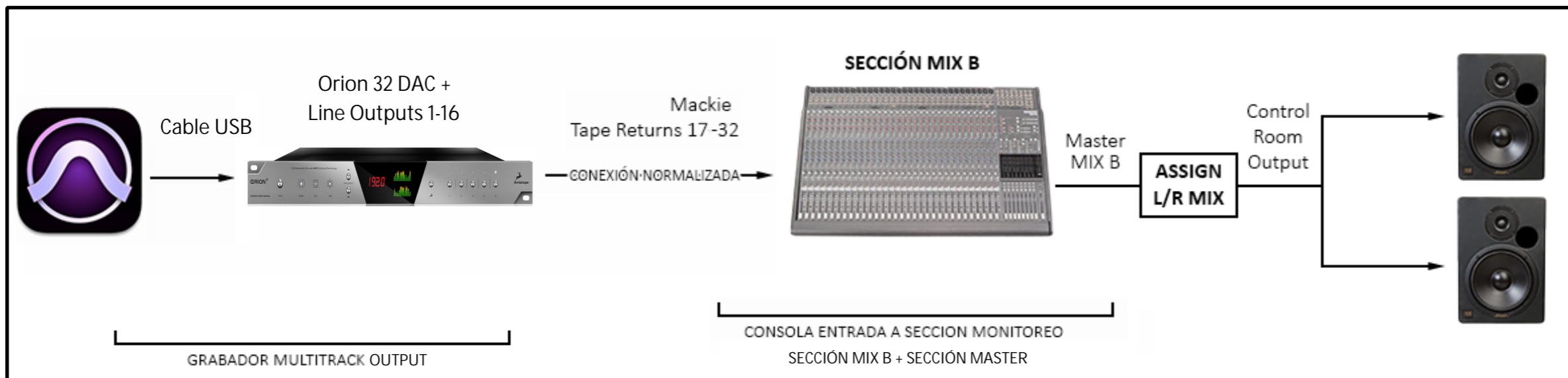


## -ESTUDIO B- SIGNAL FLOW ETAPA GRABACION

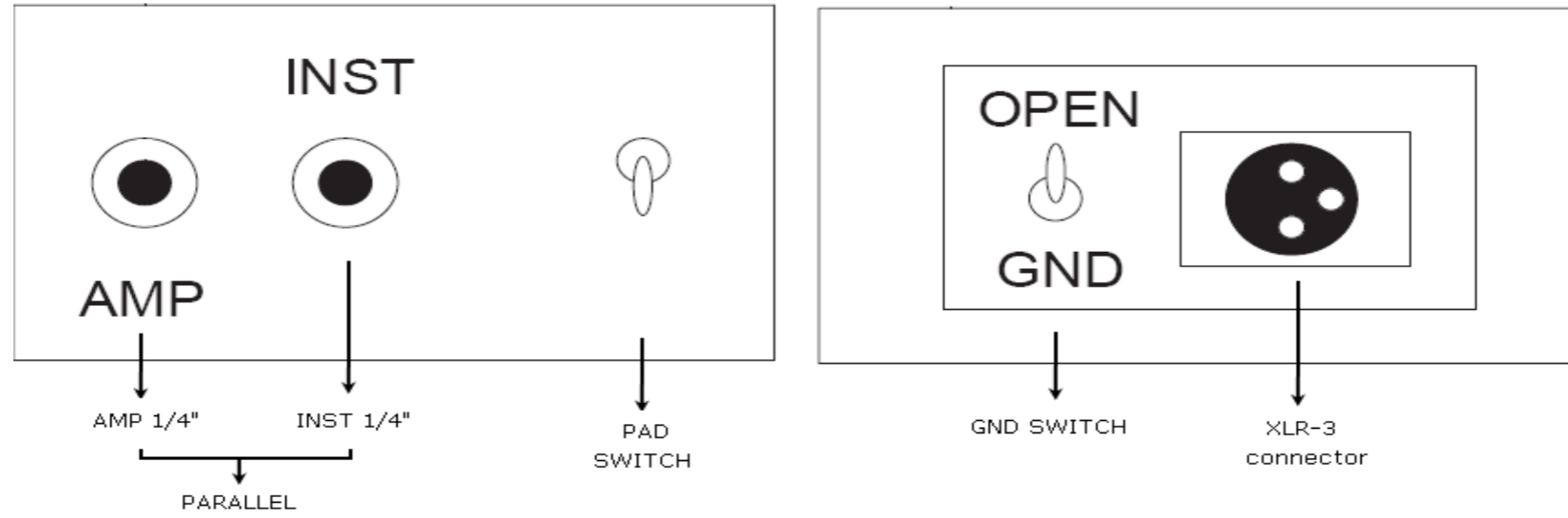
Ruta de Canal (caja D.I)



Ruta de Monitoreo Etapa grabación (Utilizando Mix B):



## DI Box



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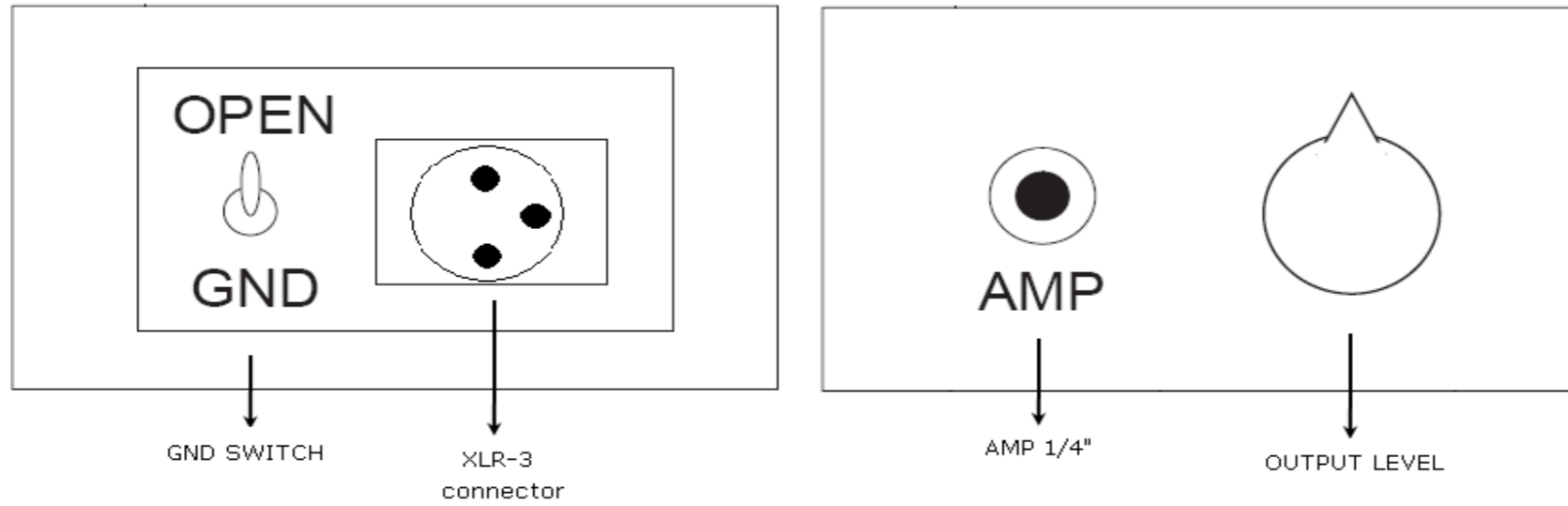
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# Reamp Box



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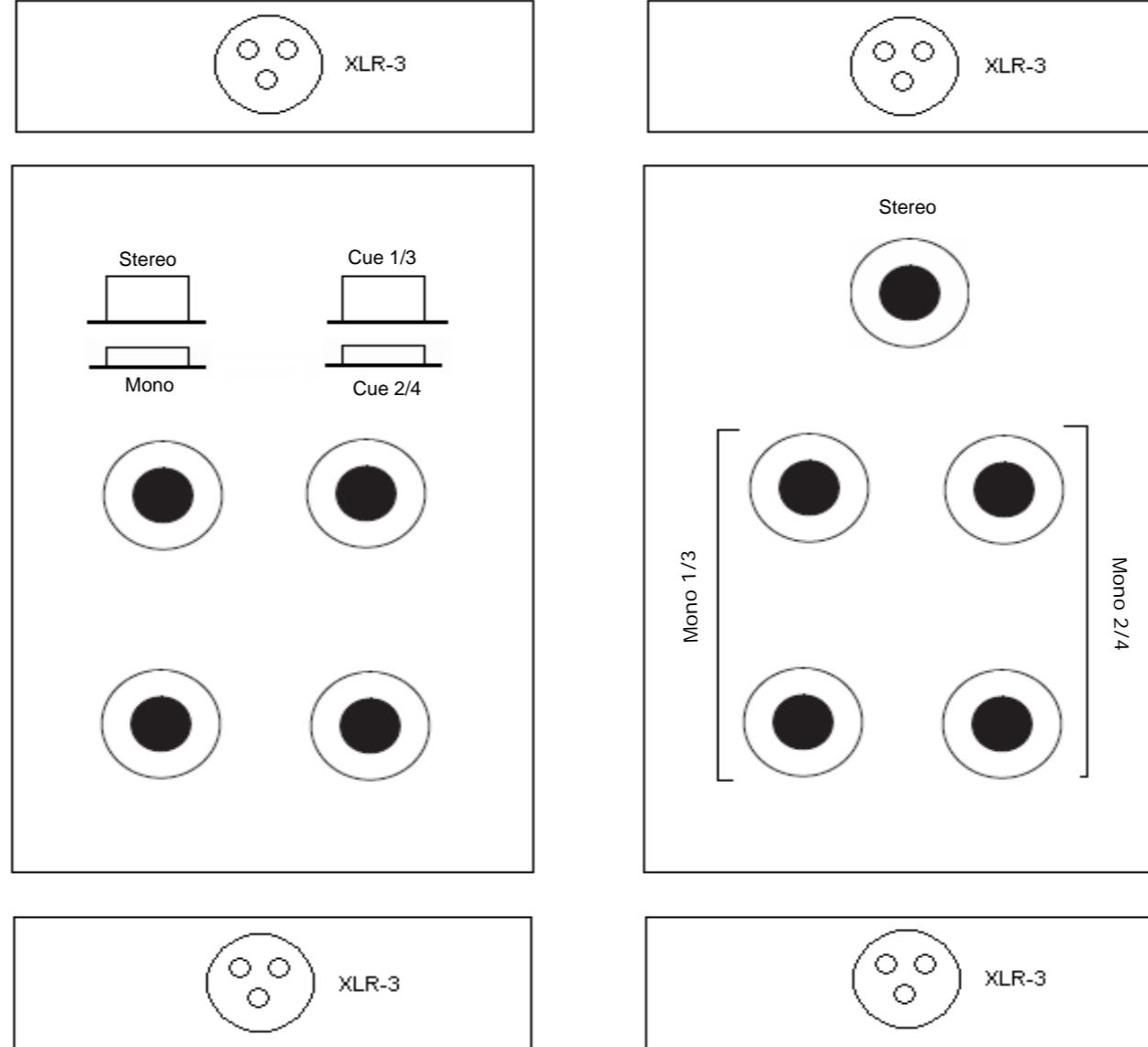
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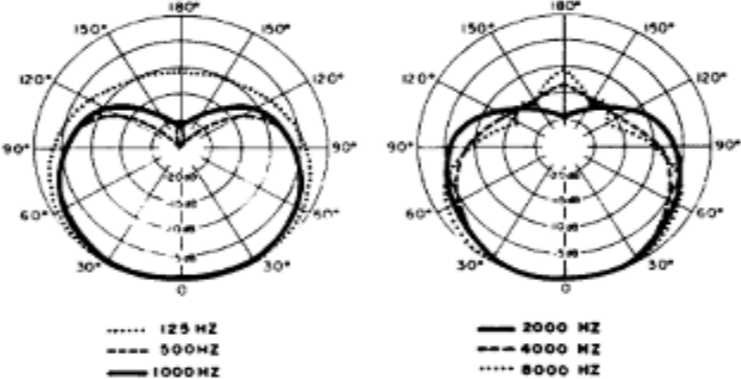
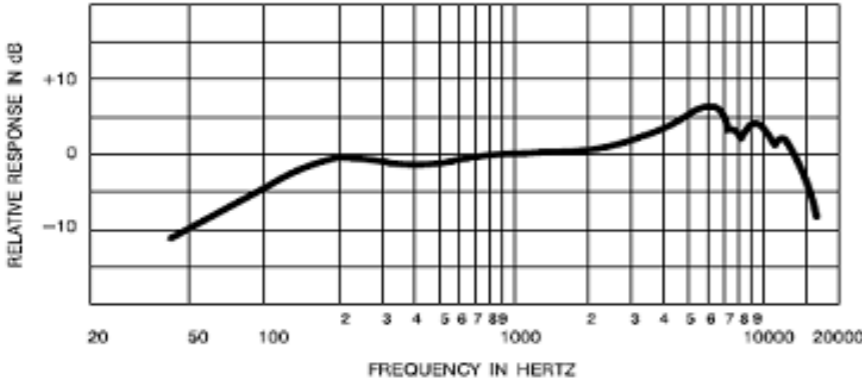
# Phones Box



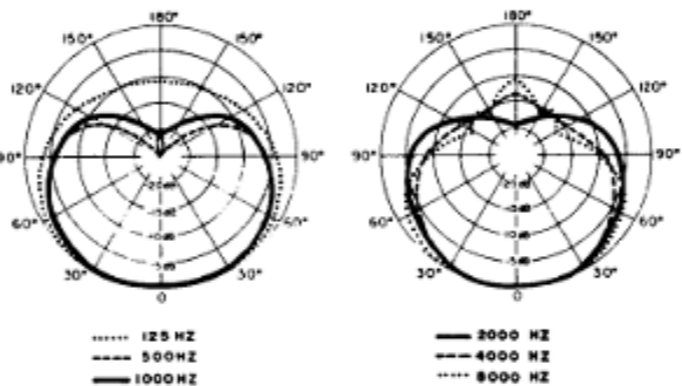
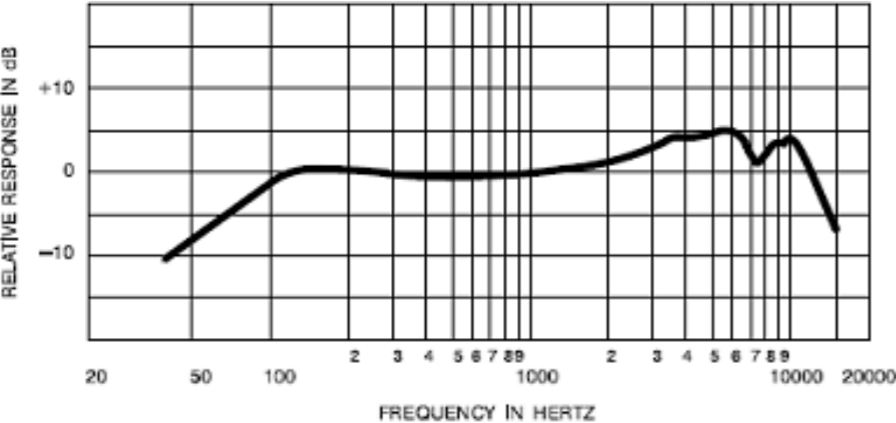
# Micrófonos

Micrófonos -nivel básico-

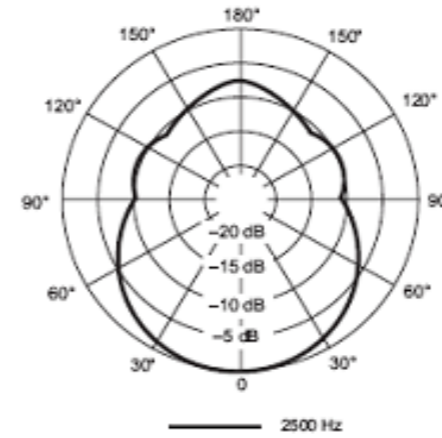
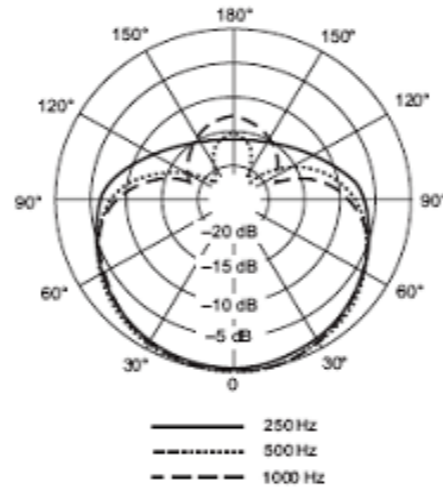
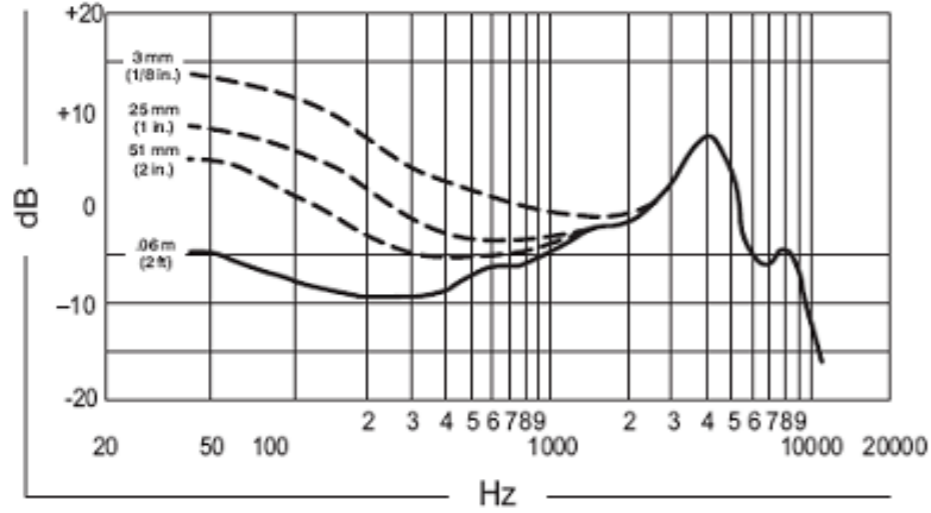
SHURE SM57 (Cardioid)



SHURE SM58 (Cardioid)

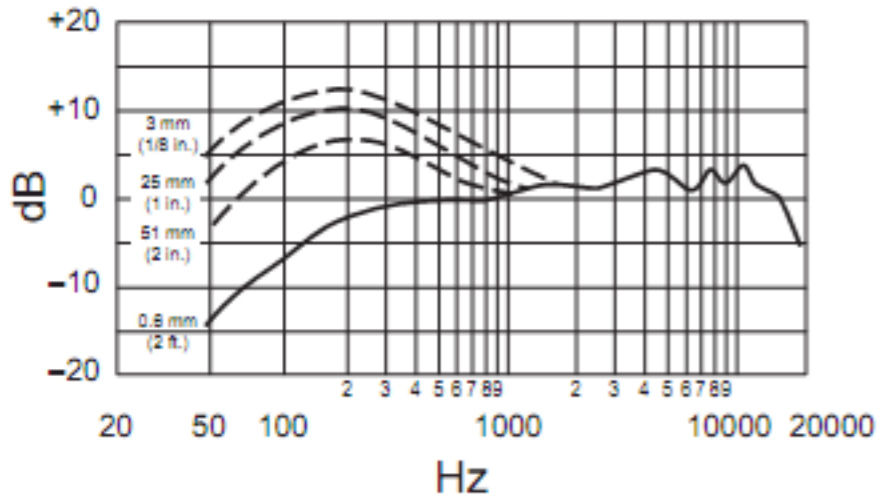


SHURE Beta 52 (*Supercardioid*)

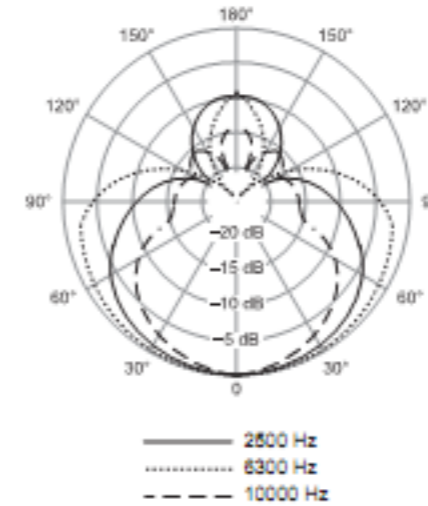
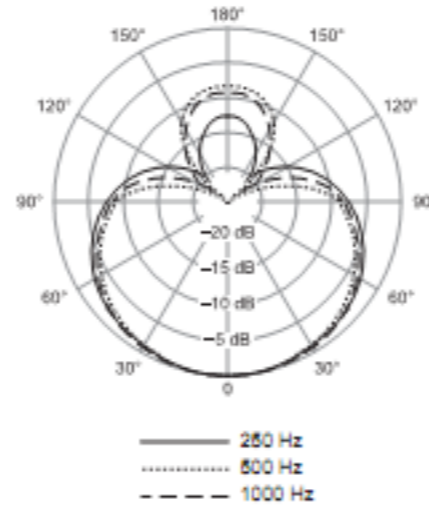


SHURE Beta 56 (*Supercardioid*)

Frequency Response

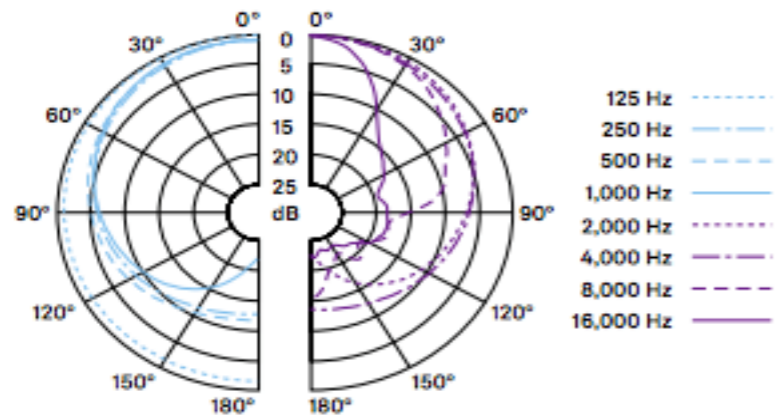


Polar Pattern

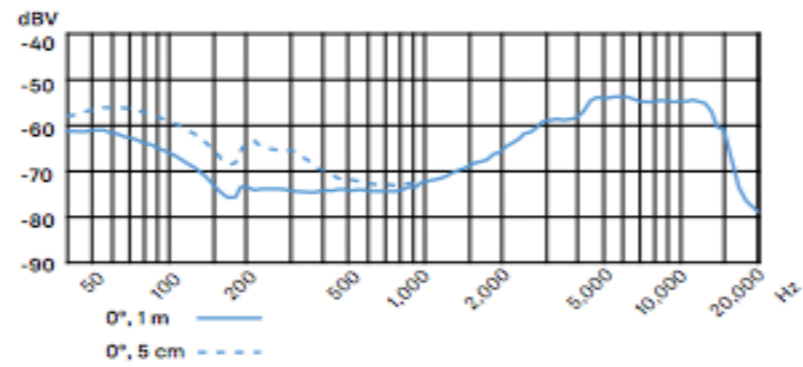


SENNHEISER E602 (Cardioid)

POLAR PATTERN

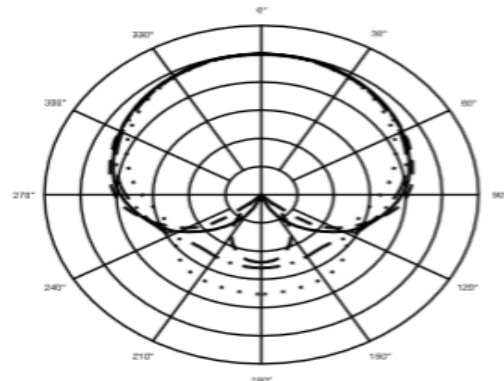


FREQUENCY RESPONSE



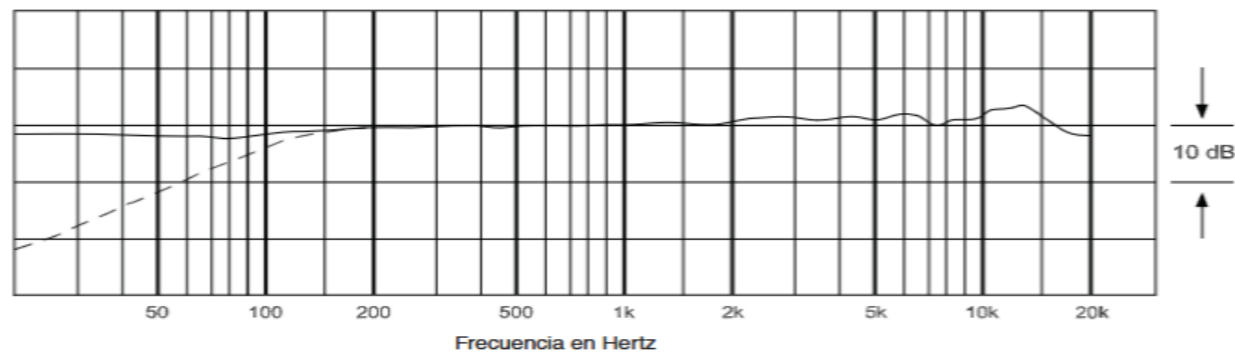
AUDIOTECHNICA AT2035 (Cardioid)

Patrón Polar



LA ESCALA ES DE 5 DECIBLES POR CADA DIVISIÓN  
 LEYENDA  
 200 Hz ————  
 1 kHz ————  
 5 kHz ————  
 8 kHz ————

Respuesta de Frecuencia

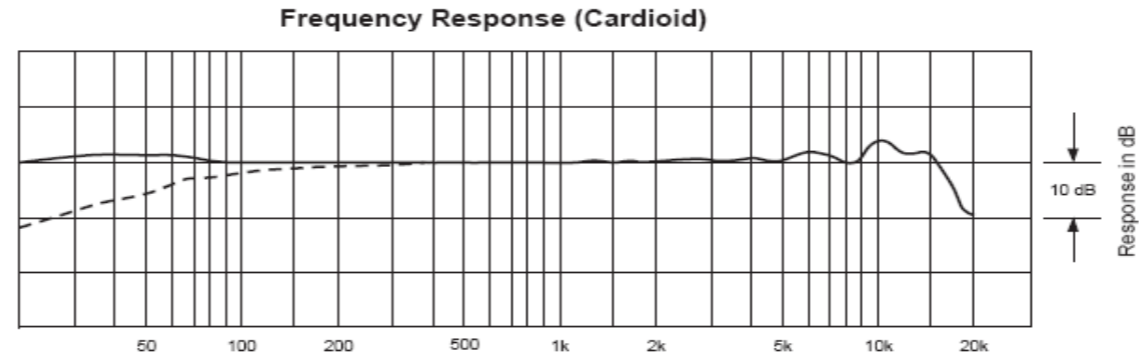
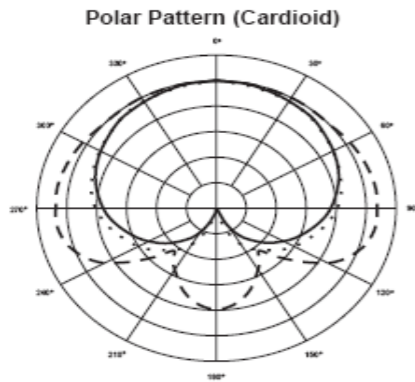


LEYENDA ———— 12" o mas en eje  
 - - - - - Atenuación de graves

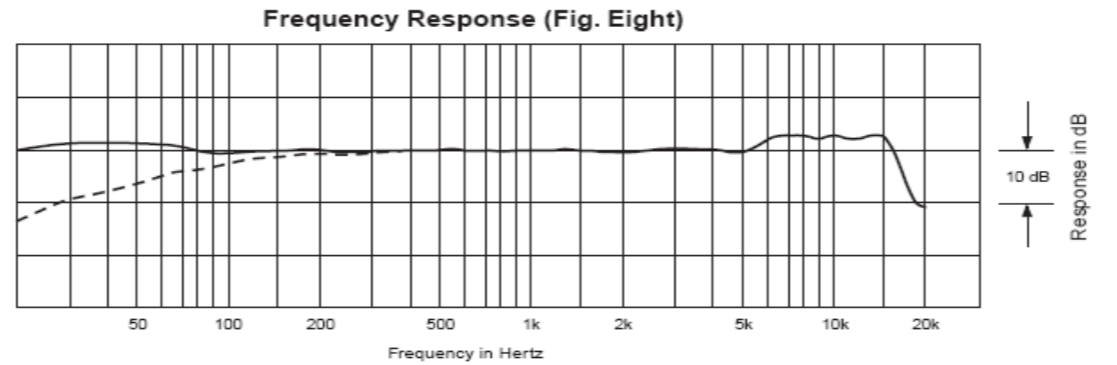
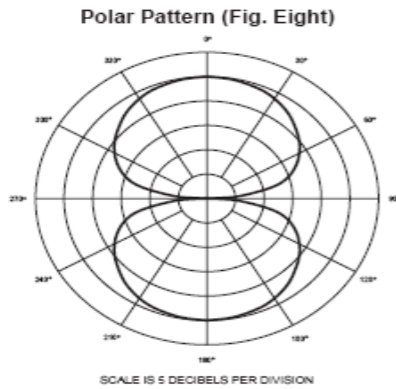
↓  
10 dB  
↑  
Respuesta en dB



*Cardioid*



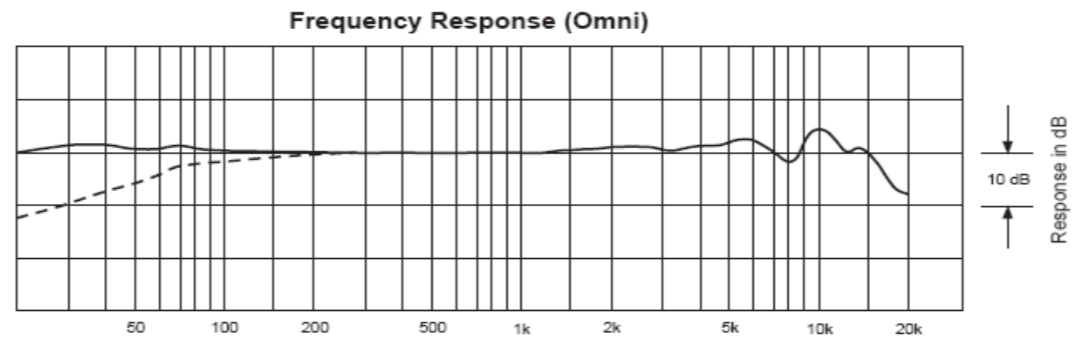
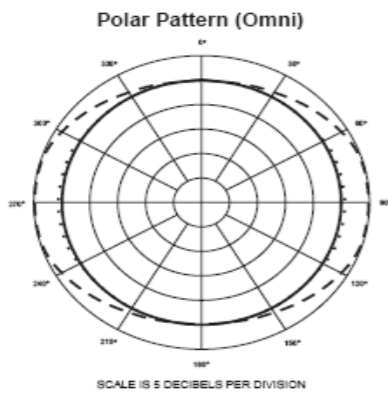
*Fig. Eight*



LEGEND  
 200 Hz same as 1 kHz  
 1 kHz ————  
 5 kHz same as 1 kHz  
 8 kHz - - - - -

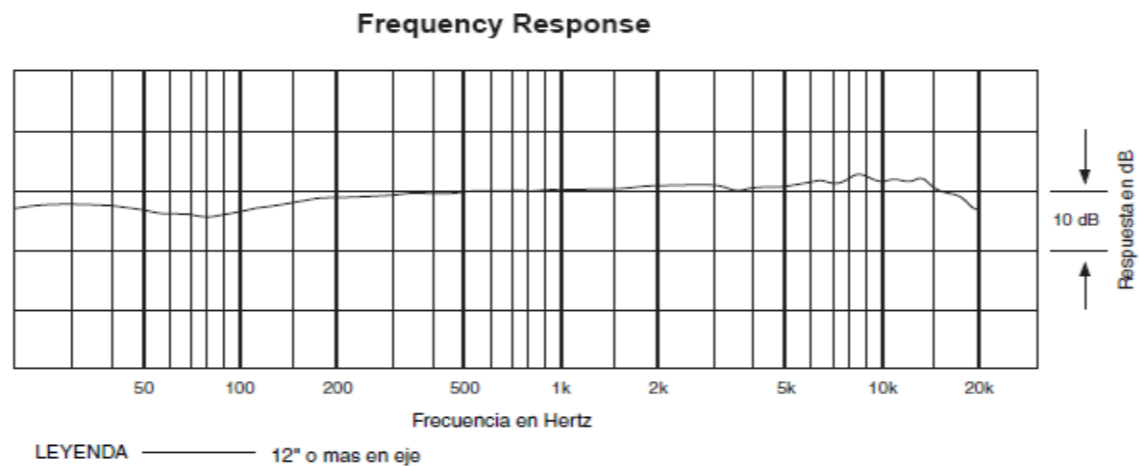
LEGEND ———— 12" or more on axis  
 - - - - - Roll-off

*Omnidirectional*

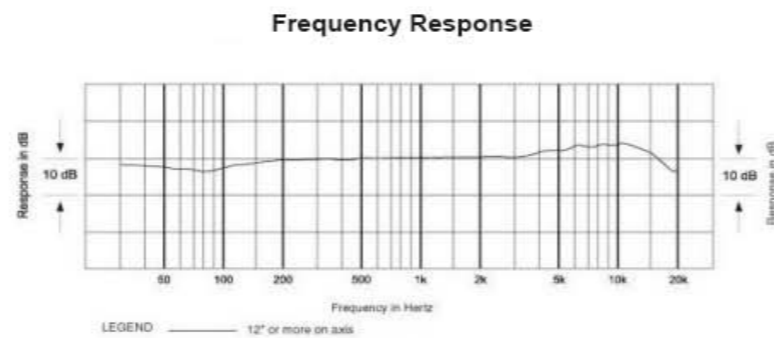
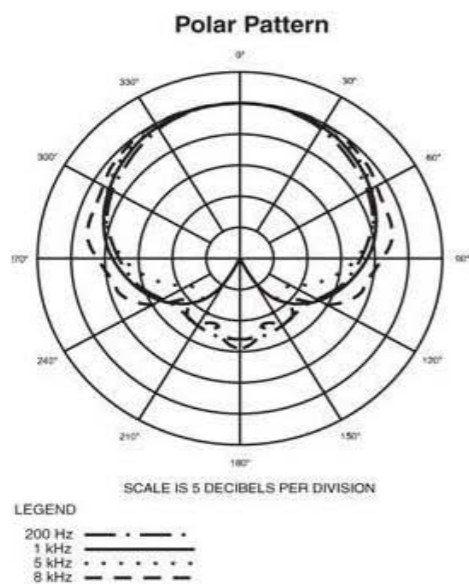


LEGEND  
 200 Hz same as 1 kHz  
 1 kHz ————  
 5 kHz same as 1 kHz  
 8 kHz - - - - -

AUDIOTECHNICA AT2020 (Cardioid)

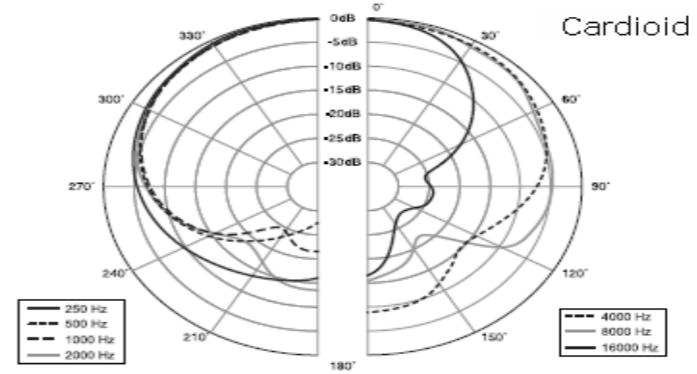
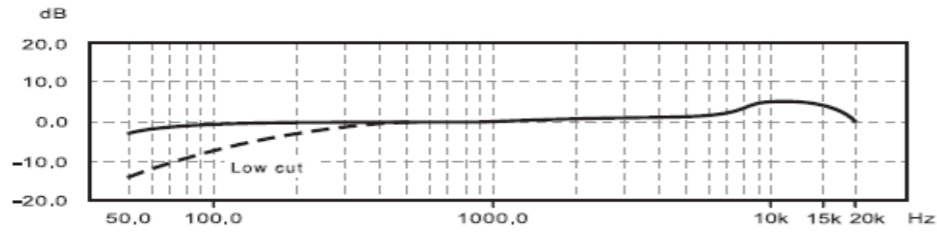


AUDIOTECHNICA AT2021 (Cardioid)

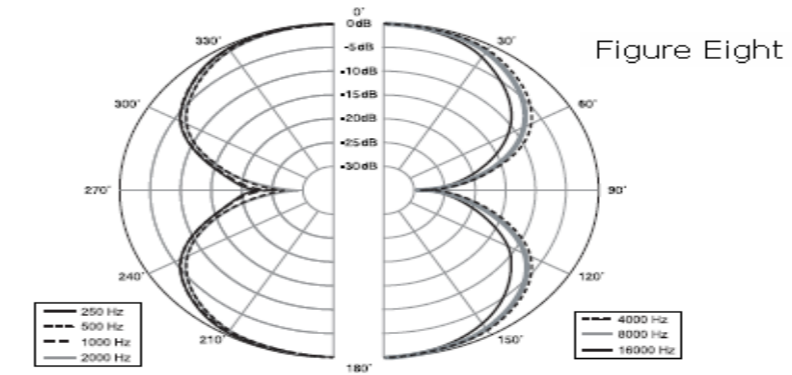
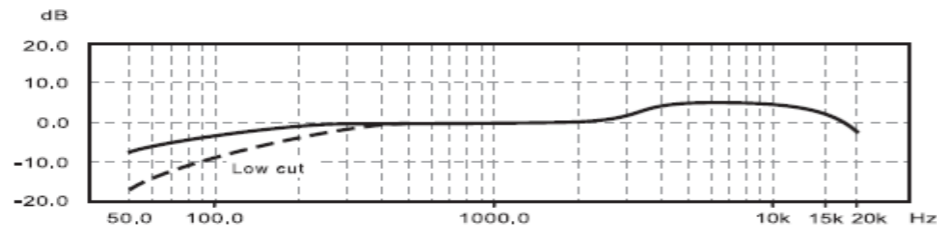


# BEHRINGER B2 PRO

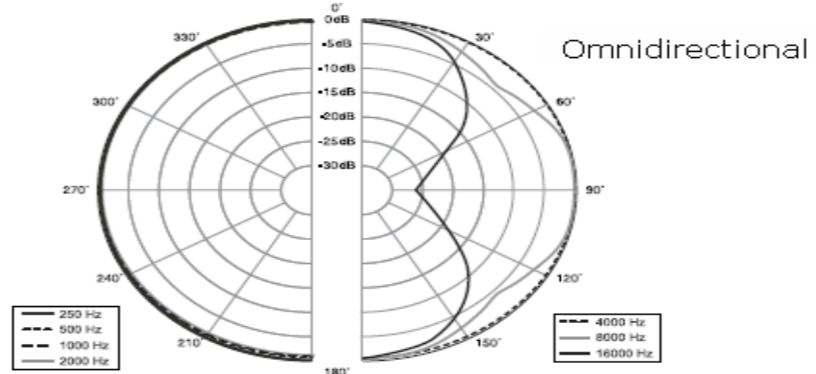
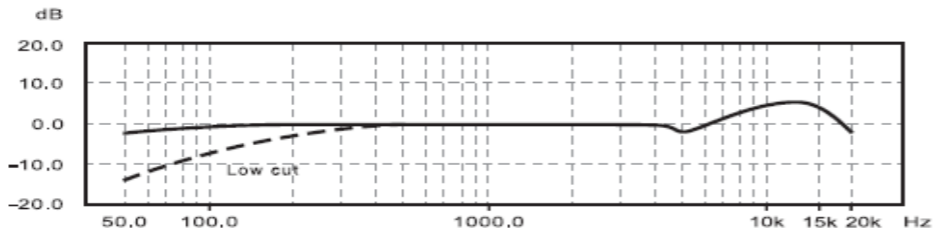
*Cardioid*



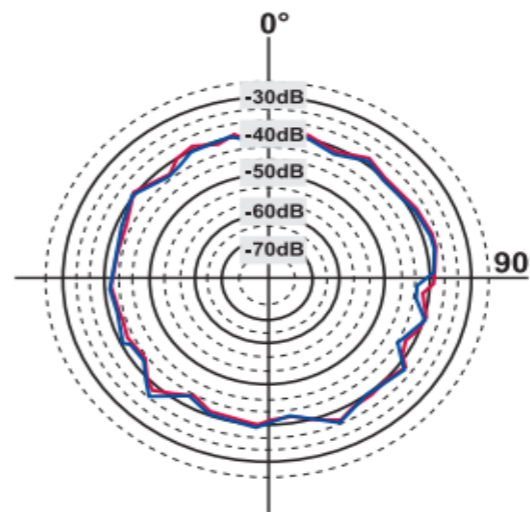
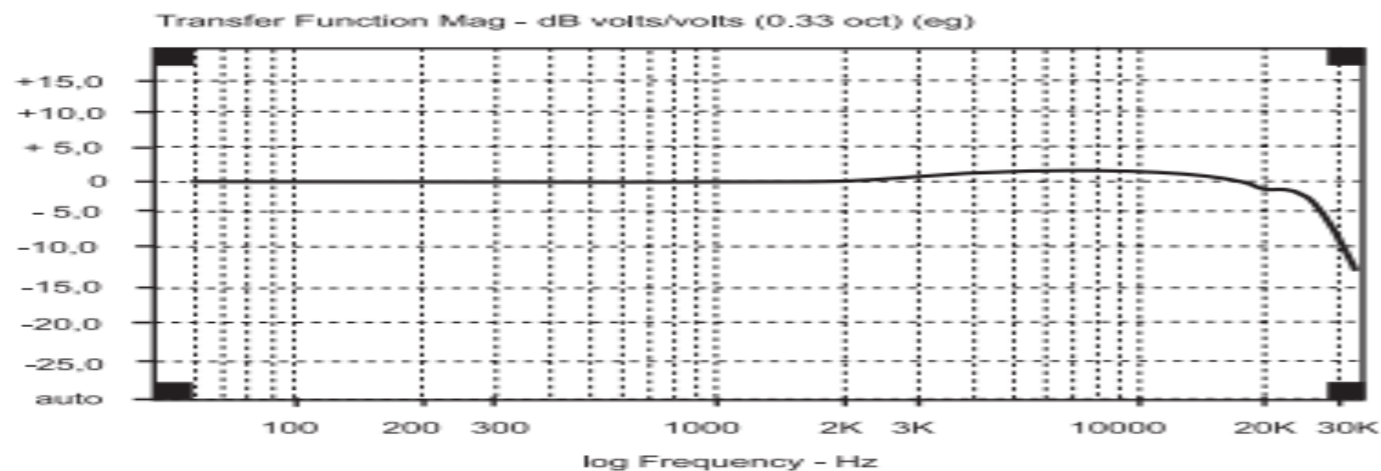
*Fig. Eight*



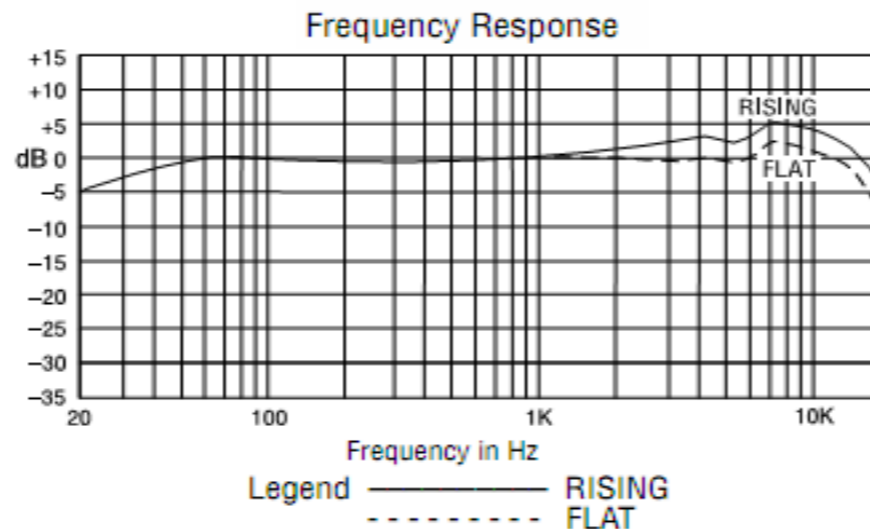
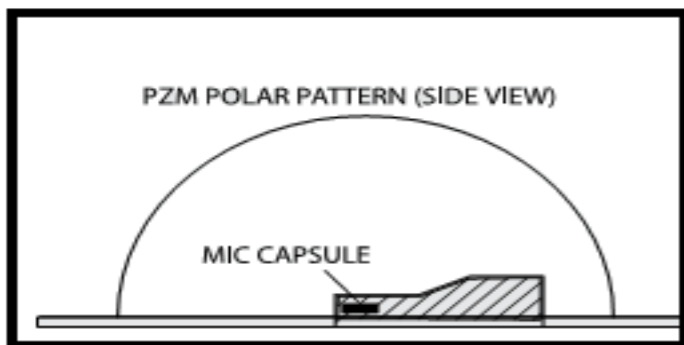
*Omnidirectional*



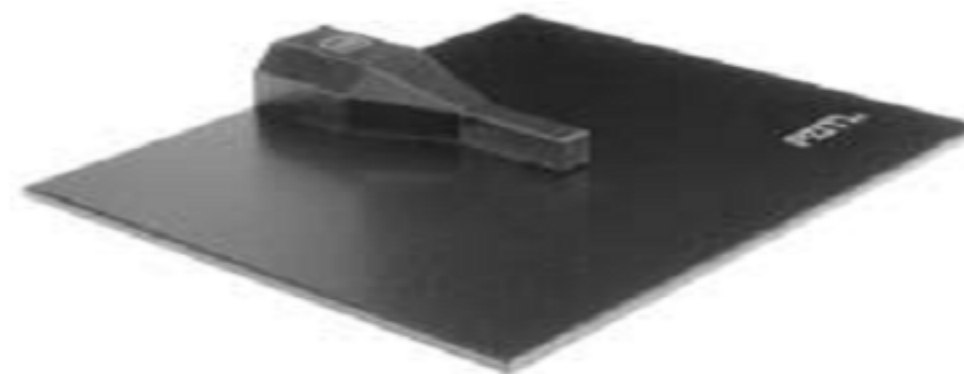
BEHRINGER ECM 8000 (Omnidirectional)



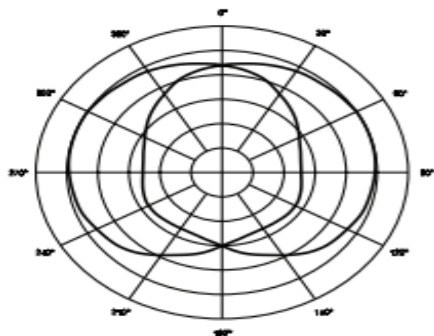
CROWN PZM30D (Hemispherical)



Low-frequency response depends on size of surface.

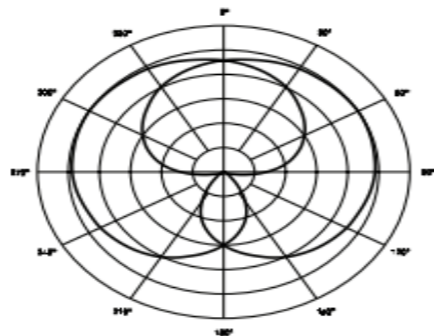


**Patrón Polar**



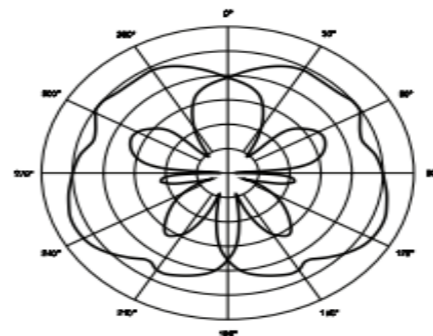
LA ESCALA ES DE 5 DECIBLES POR CADA DIVISIÓN  
LEYENDA  
200 Hz

**Patrón Polar**



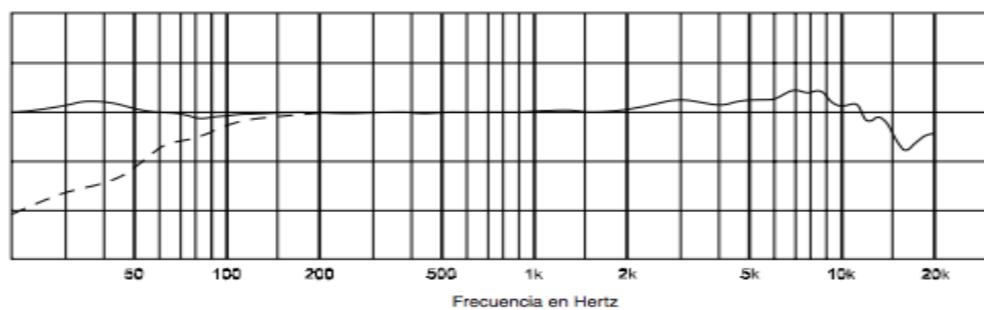
LA ESCALA ES DE 5 DECIBLES POR CADA DIVISIÓN  
LEYENDA  
1 kHz

**Patrón Polar**



LA ESCALA ES DE 5 DECIBLES POR CADA DIVISIÓN  
LEYENDA  
8 kHz

**Respuesta de Frecuencia**



LEYENDA ——— 12° o mas en eje  
- - - - - Atenuación de graves

10 dB  
↑  
↓  
Respuesta en dB



# Estudio D

# Patchbay Estudio D

MIC LINES ISO						mic lines ctrl		tie lines ctrl		CUE MIX		MACKIE DIRECT OUTPUTS				MAIN MIX		MIX INS SND		MULTS			
5	6	7	8	9	10	1	2	1	2	1	2	29	30	31	32	L	R	L	R	//	//	//	//

MACKIE INSERTION SENDS																MACKIE BUS INSERTION SENDS							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2	3	4	5	6	7	8

MACKIE MIC INPUTS				MACKIE LINE INPUTS												2 TRK		MIX INS RTN		MULTS			
29	30	31	32	17	18	19	20	21	22	23	24	25	26	27	28	L in	R in	L	R	//	//	//	//

MACKIE INSERTION RETURNS																MACKIE BUS INSERTION RETURNS							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1	2	3	4	5	6	7	8

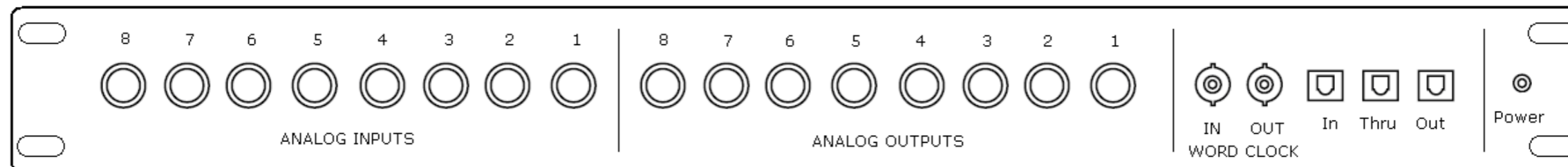
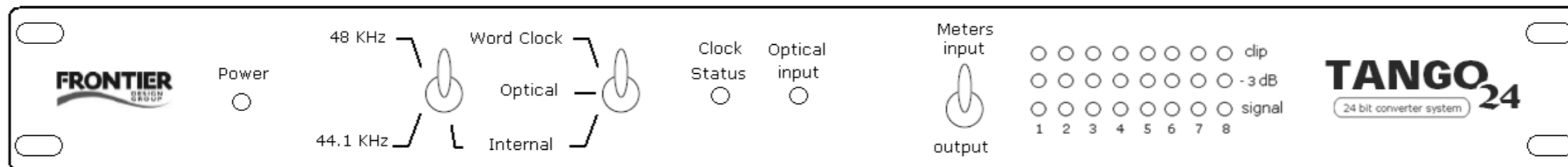
FOCUSRITE LINE OUTPUTS (1-8)								TANGO LINE OUTPUTS (1-8)								FOCUS LINE INPUTS				AUXILIAR OUTPUTS			
1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8	5	6	7	8	1	2	3	4

∅	COMPOSER	DL 241	3630	DS 404 OUTS								PCM 60	SPX 90	LXP 1	DEP-5				
in	out	1 out	2 out	1 out	2 out	1 out	2 out	1 out	2 out	3 out	4 out	L out	R out	L out	R out	L out	R out	L out	R out

MACKIE TAPE RETURNS																AUXILIAR RETURNS							
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	1L	1R	2L	2R	3L	3R	4L	4R

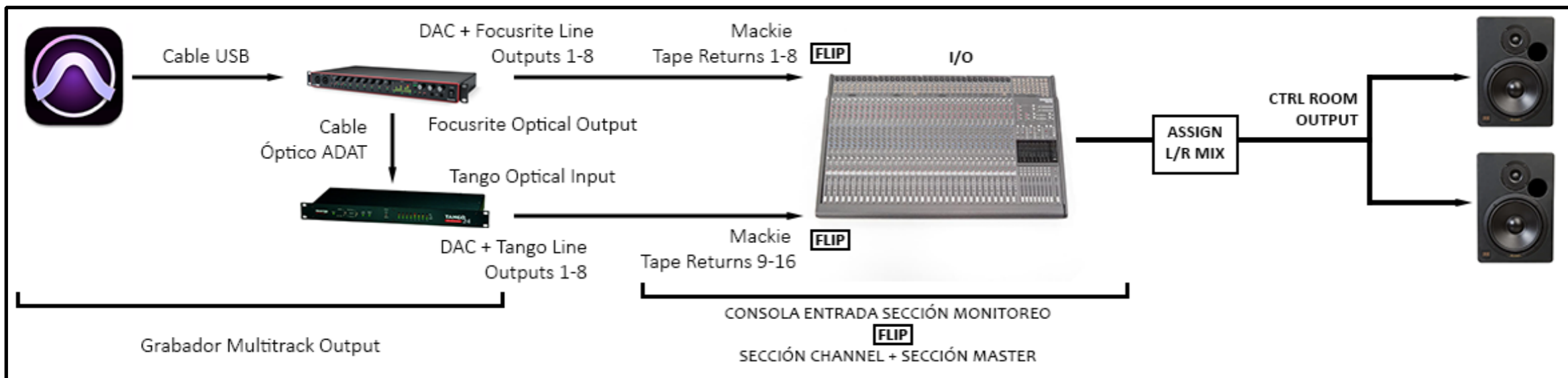
∅	COMPOSER	DL 241	3630	DS 404 INS								PCM 60	SPX 90	LXP 1	DEP-5						
in	out	1 in	2 in	1 in	2 in	1 in	2 in	1 in	KEY	1 in	KEY	1 in	KEY	1 in	KEY	in	in	in	in	in	in

## Frontier Tango 24 Front & Back Panels

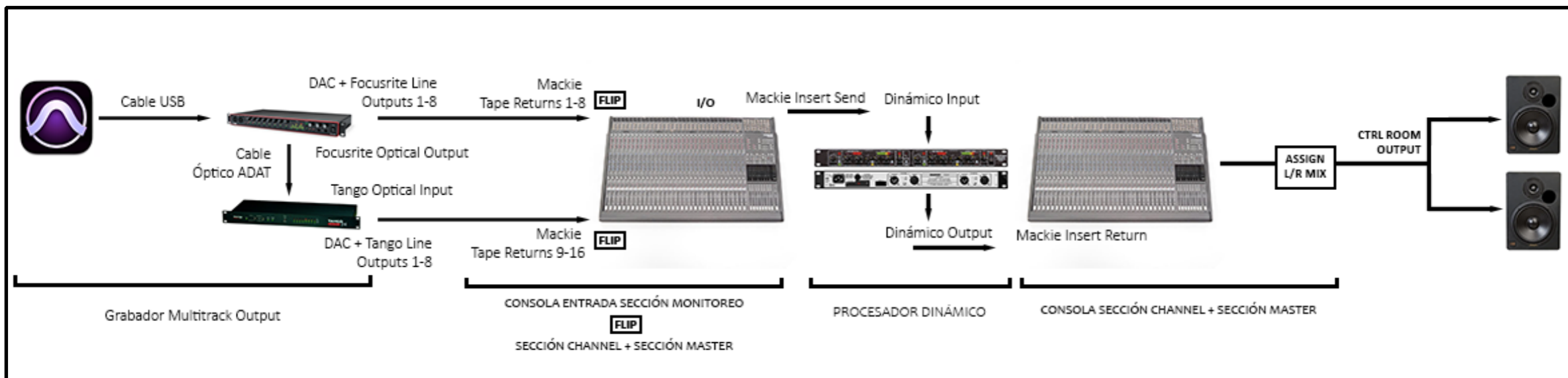


## -ESTUDIO D- SIGNAL FLOW ETAPA MEZCLA

Ruta de Monitoreo Etapa mezcla:

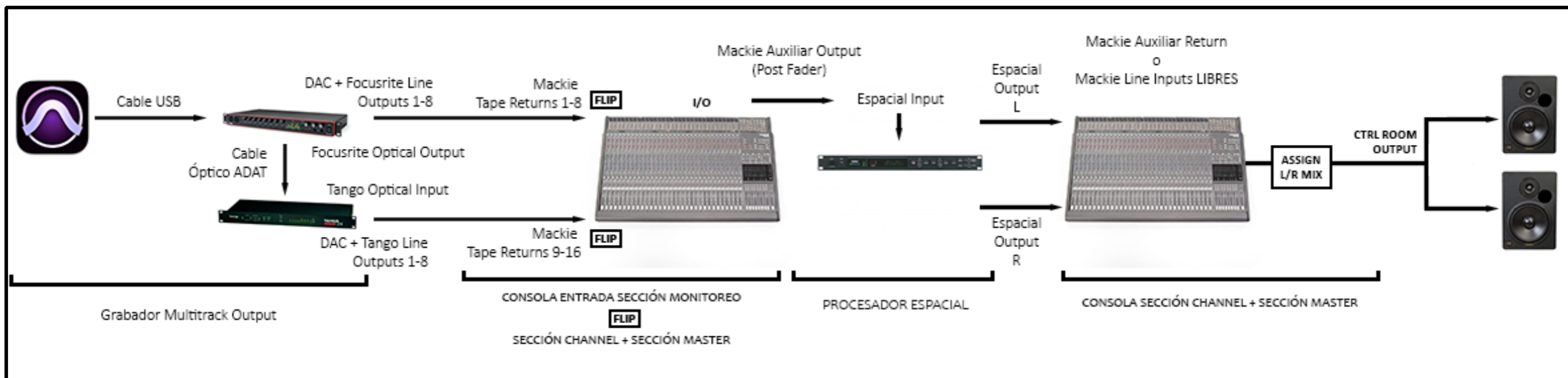


Ruta de Procesadores Dinámicos:

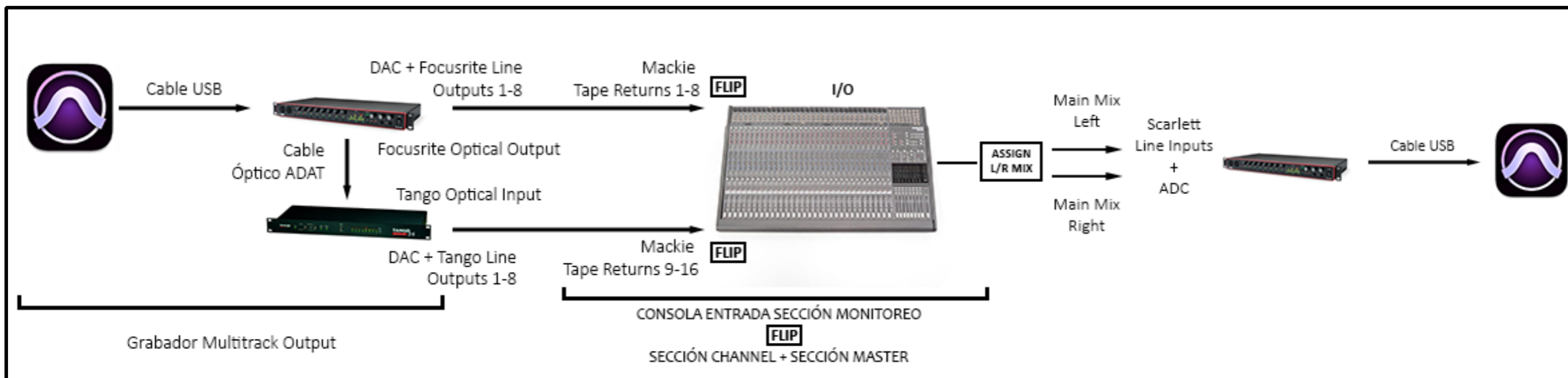


## -ESTUDIO D- SIGNAL FLOW ETAPA MEZCLA

Ruta de Procesadores Espaciales:

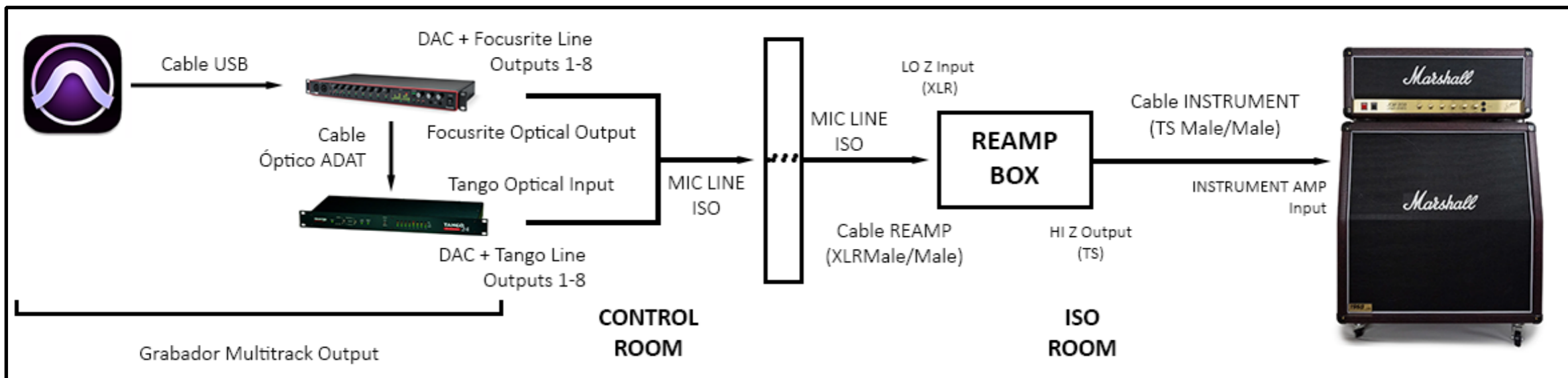


Ruta de Mixdown:

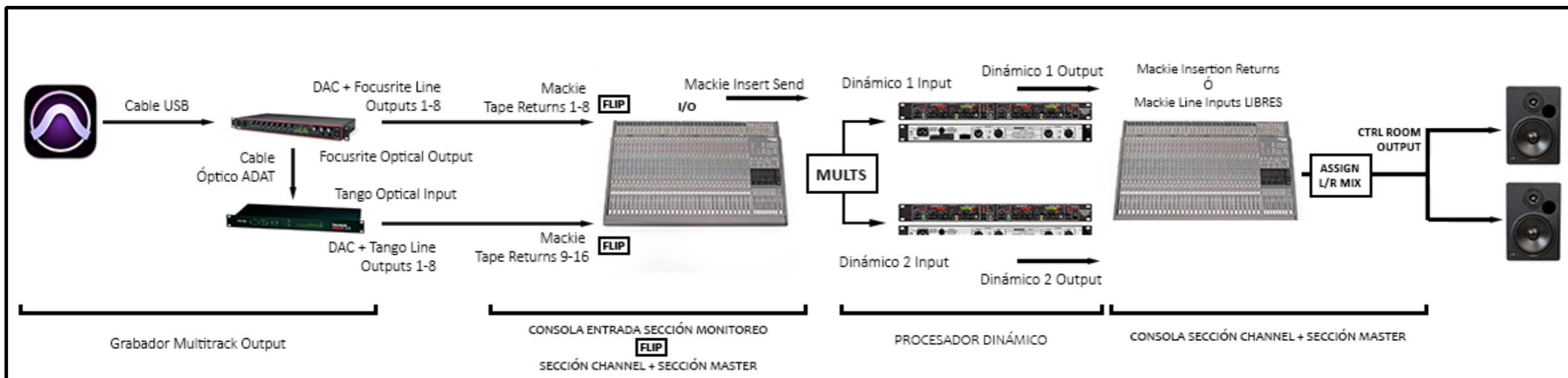


## -ESTUDIO D- SIGNAL FLOW ETAPA MEZCLA

Ruta de Reamp (REAMP BOX):

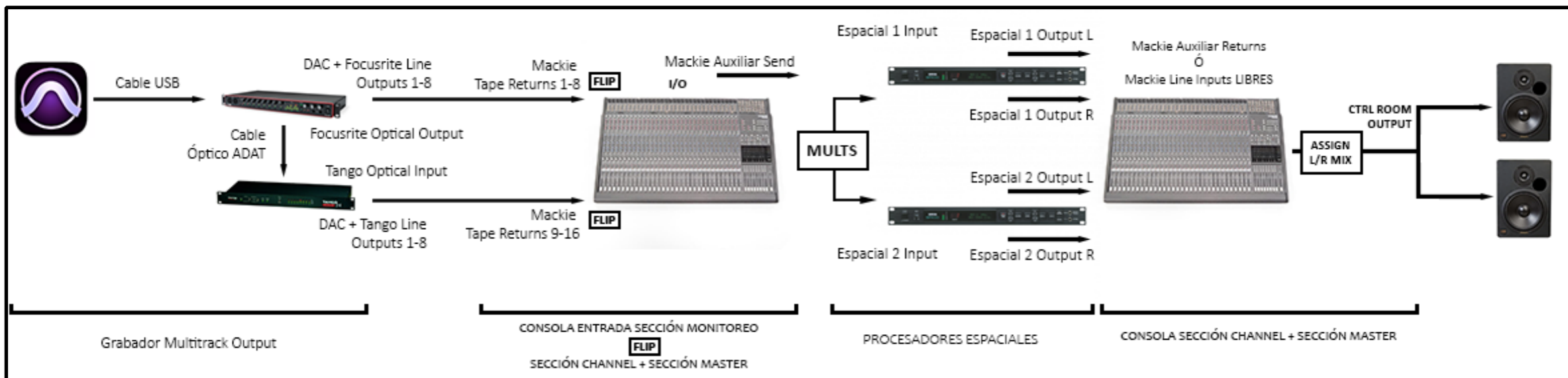


Ruta de Comparación A/B de Procesadores Dinámicos:

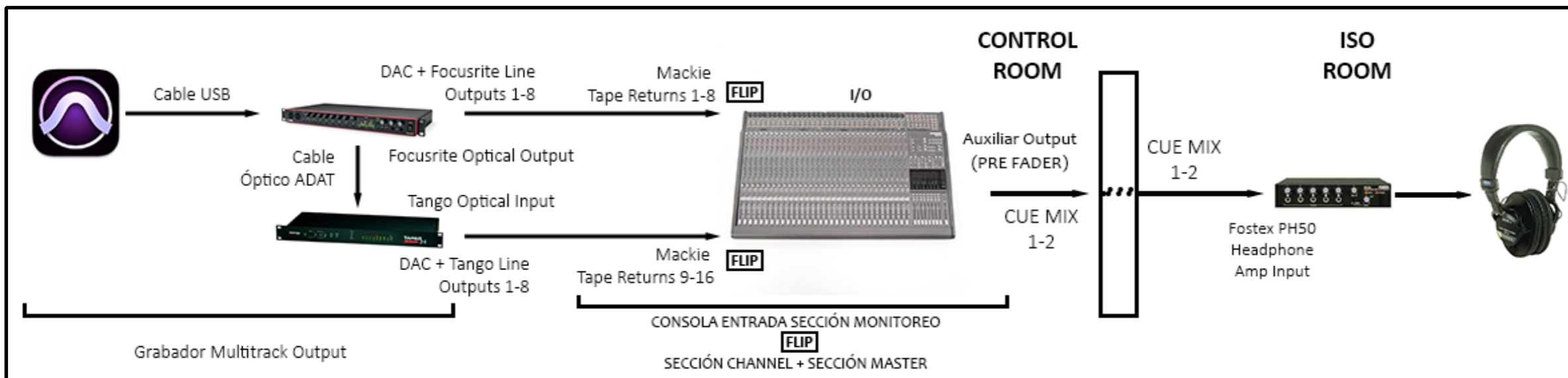


## -ESTUDIO D- SIGNAL FLOW ETAPA MEZCLA

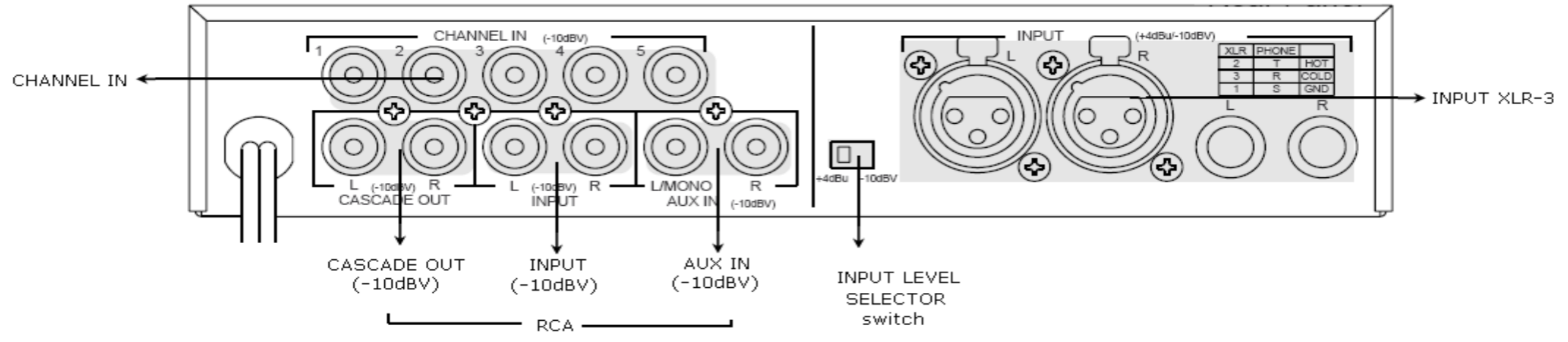
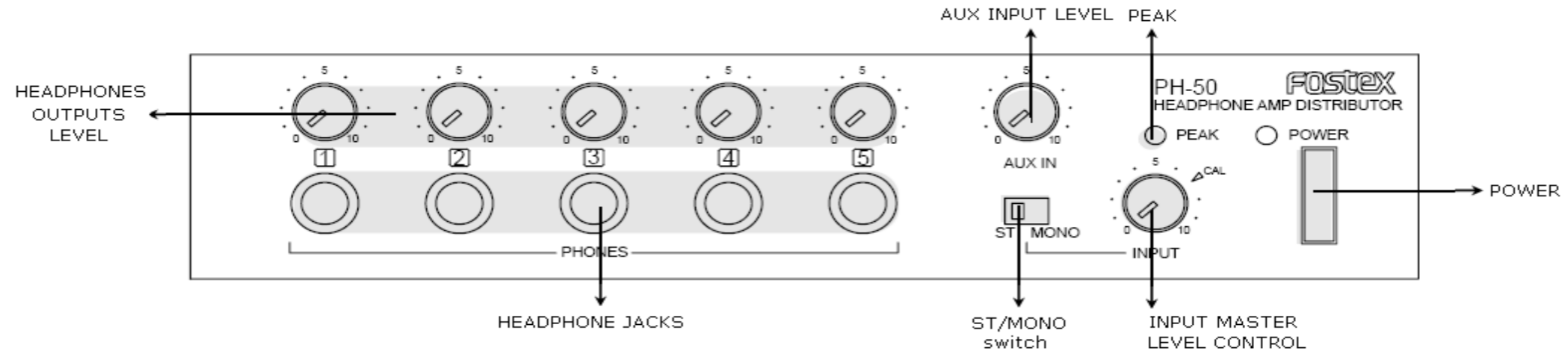
Ruta de Comparación A/B de Procesadores Espaciales:



Ruta de Cue:

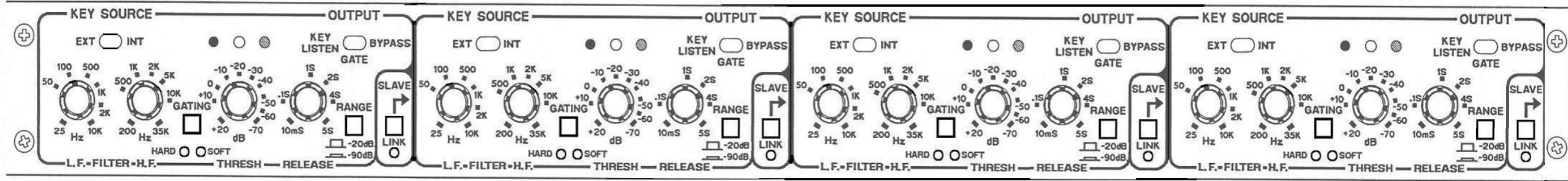


# PH – 50 PHONES BOX front & back panel

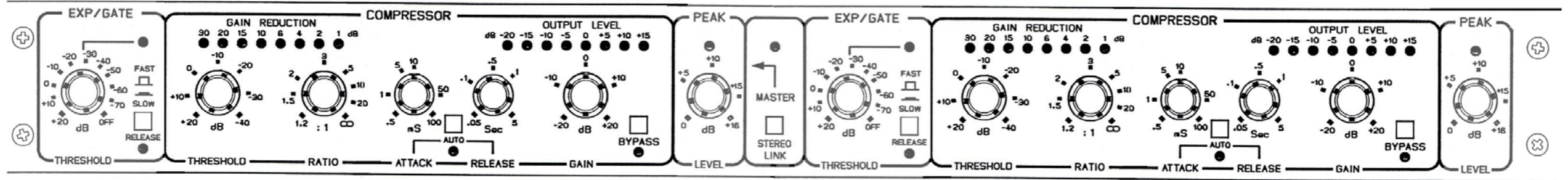


## Procesadores Dinámicos

COMPUERTA (NOISE GATE) Drawmer DS 404

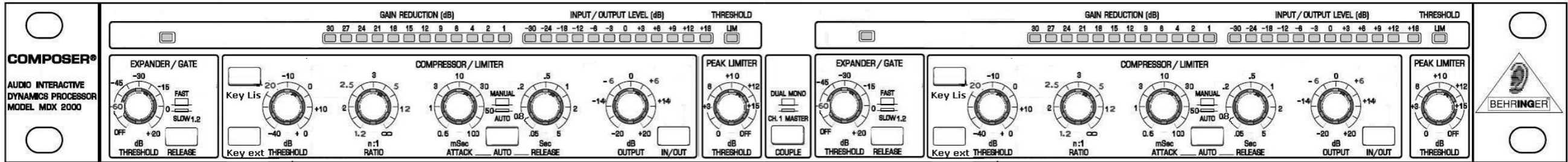


COMPRESOR (COMPRESSOR) Drawmer DL 241

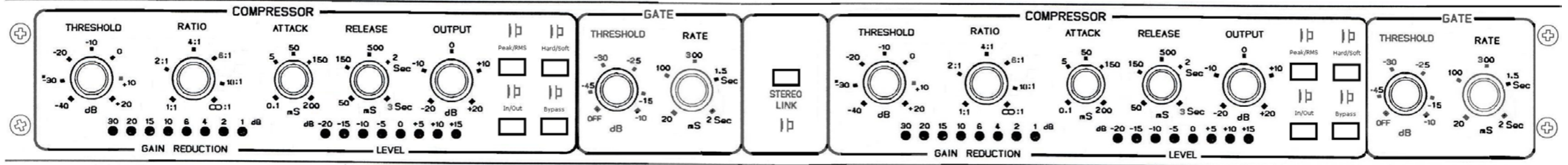


## Procesadores Dinámicos

COMPRESOR (COMPRESSOR) Behringer Composer MDX 2000



COMPRESOR (COMPRESSOR) Alesis 3630



## Bibliografía recomendada

- Apunte: Introducción al audio (<http://tecson.com.ar/introduccion/>) [español]
- Introducción al sonido y la grabación [español]
- Conectando (manual de audio de Fender) [español]
- Modern recording techniques [ingles]
- The sound reinforcement handbook (Yamaha) [ingles]
- Total Recording (David Moulton) [ingles]









