

# Instructions for creating and using an OUTBOARD PROCESSING CHAIN in Millenium Digital Consoles:

## STEP-1

Connect to the consoles 'serial port via the supplied programming software and configure UTILITY Bus #1 as below for LEFT channel processing chain output. (Note, if UTILITY Bus-1 and or 6 is in use, use Bus pairs 2,7 or 3,8 or 4,9 or 5,10)  
For connecting to console serial input and programming instructions see console manual pages 82-93.

CHANNEL		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	ALL			
INPUT A	CHANNEL OFF	PREFADER LEFT																											
	CHANNEL ON	PREFADER RIGHT																											
	BUS SELECT	PROGRAM																											
		AUDITION																											
	BUS SELECT	TELEPHONE																											
		NO BUS SELECTED																											
	INPUT B	CHANNEL OFF	PREFADER LEFT																										
		CHANNEL ON	PREFADER RIGHT																										
		BUS SELECT	PROGRAM																										
			AUDITION																										
		BUS SELECT	TELEPHONE																										
			NO BUS SELECTED																										

THIS IS UTILITY BUS 1 MAIN.  
USE THIS BUS IN CONJUNCTION WITH UTILITY BUS 6 MAIN TO FORM A STEREO PAIR.

## STEP-2

Connect to the consoles 'serial port via the supplied programming software and configure UTILITY Bus #6 as below for RIGHT channel processing chain output. (Note, if UTILITY Bus-1 and or 6 is in use, use Bus pairs 2,7 or 3,8 or 4,9 or 5,10)

CHANNEL		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	ALL			
INPUT A	CHANNEL OFF	PREFADER LEFT																											
	CHANNEL ON	PREFADER RIGHT																											
	BUS SELECT	PROGRAM																											
		AUDITION																											
	BUS SELECT	TELEPHONE																											
		NO BUS SELECTED																											
	INPUT B	CHANNEL OFF	PREFADER LEFT																										
		CHANNEL ON	PREFADER RIGHT																										
		BUS SELECT	PROGRAM																										
			AUDITION																										
		BUS SELECT	TELEPHONE																										
			NO BUS SELECTED																										

THIS IS UTILITY BUS 6 MAIN.  
USE THIS BUS IN CONJUNCTION WITH UTILITY BUS 1 MAIN TO FORM A STEREO PAIR.

## STEP-3 (for ANALOG option)

Connect EQ ANALOG Input to console  
UTILITY ANALOG Output 1/6 via console  
RJ-45 connector J32 (or J-35,38,44,46 if  
other UTILITY Outputs are utilized)



STEP-3 (for DIGITAL option)  
Connect EQ DIGITAL Input to console  
UTILITY DIGITAL Output 1/6 via console RJ-  
45 connector J1 (or J-9,18,24,26 if other  
UTILITY Outputs are utilized)



Art Hq231 Dual EQ (or comparable balanced audio In/OUT equalizer)

## STEP-4

Use StudioHub+ (or hand-made XLR male to female stereo patch cables) to connect EQ ANALOG or DIGITAL output to FX ANALOG or DIGITAL input)



Lexicon MX-300 dual reverb/delay (or comparable balanced audioprocessor)

## NOTE

StudioHub+ wiring and ADAPTERS shown in these illustrations for clarity and consistency. Cables may also be hand-made and soldered from discreet components and audio wire.



## STEP-5

Use StudioHub+ to connect FX ANALOG or DIGITAL Output to any available console ANALOG or DIGITAL: input

## OPERATION:

- Assign any audio source(s) where processing is desired to AUDITION Bus – ONLY!
- Use channel fader(s) to set mix levels. Monitor levels in AUDITION meters.
- Set outboard monitoring gear to desired effects.
- Set monitor chain channel to PROGRAM and set input level via channel faders
- Include any other none processed sources in PROGRAM mix
- For monitoring:  
use AUDITION to monitor effects mix  
use PROGRAM to monitor full mix