

# Egret



## OPERATOR'S MANUAL

Version (-1) first data



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Egret is a highly flexible workstation back end. It contains 8 channels of high quality D/A converters and a stereo line level mixer with color options to help bring analog summed digital mixes to life.

The stereo mixer has a level control, a aux send which is post level control, a color control, and a pan control on each channel. Each channel also contains an analog / digital source button, and solo - mute buttons.

The color function is adjustable from a transparent sound to a complex mix of second and third harmonic content. Creating the possibility of having clean modern sounds mixed with vintage sounds.

By using the balanced direct outputs and the balanced analog inputs you can insert analog processing into individual channels.

The built in Aux bus with its master level control can be used as an effects send. A balanced stereo effects return is built into the system.

The master stereo bus level control, which is a stepped attenuator, has 1 db steps for most of its range, This allows for accurate gain control, repeatability, and stereo gain matching to better than .05 db.

The headphone system allows a monitor mix to be created when Egret is being used in multi channel location recording. Thus allowing the monitoring of all channels.

The D/A converters support sample rates up to 192K and have sample rate converters on each channel for jitter reduction. There is a front panel switch to disable the SRC for cases where lower latency is required. The system is built so that the converters and the interface can be upgraded as the technology changes.

The standard interface supports AES single wire to 192KHz, ADAT, and S/MUX to 96K. The converters can also be independently operated, even at different sample rates.

Egret is built so that the stereo, and cue buses can be chained together to create a many input system. With a special cable Egret's stereo bus can also be tied to a Crane Song SPIDER as a way to sum additional analog inputs while working in a mix mode.

**COLOR** THE COLOR KNOB PROVIDES AN ADJUSTABLE TAPE - LIKE COLOR THAT SOFTENS TRANSITS AND ADDS SECOND AND THIRD ORDER HARMONICS

**PAN** POSITIONS THE CHANNEL OUTPUT THROUGH THE LEFT - RIGHT STEREO BUS

**LEVEL**  
THE CHANNEL LEVEL OR FADER



**SOLO BUTTON** BY PRESSING THIS IN THE CHANNEL IS SOLOED THE RED LED LIGHTS ON ALL MUTED CHANNELS

**MUTE BUTTON** BY PRESSING THIS IN THE CHANNEL IS MUTED. THE RED LED LIGHTS ON ALL MUTED CHANNELS

**AUX LEVEL** THIS IS FOR USE AS AN EFFECTS SEND IT IS POST LEVEL

**SOURCE BUTTON** BY PRESSING THIS IN THE EXTERNAL ANALOG SOURCE IS SELECTED. WITH IT OUT THE CHANNELS D/A CONVERTER IS SELECTED

**PHONES** THIS IS THE LEVEL OF THE HEADPHONES. THIS IS TO MONITOR THE STEREO BUS AND IS DESIGNED FOR 1 HEAD PHONE

**AUX MASTER** THIS IS THE AUX BUS OF EFFECTS SEND BUS MASTER LEVEL

**SOURCE** THIS IS DIGITAL INPUT SELECTION. IT HAS 3 CHOICES. THE LEFT MOST IS AES/EBU THE MIDDLE POSITION IS ADAT INPUT. THE RIGHT POSITION IS FOR FUTURE EXPANSION

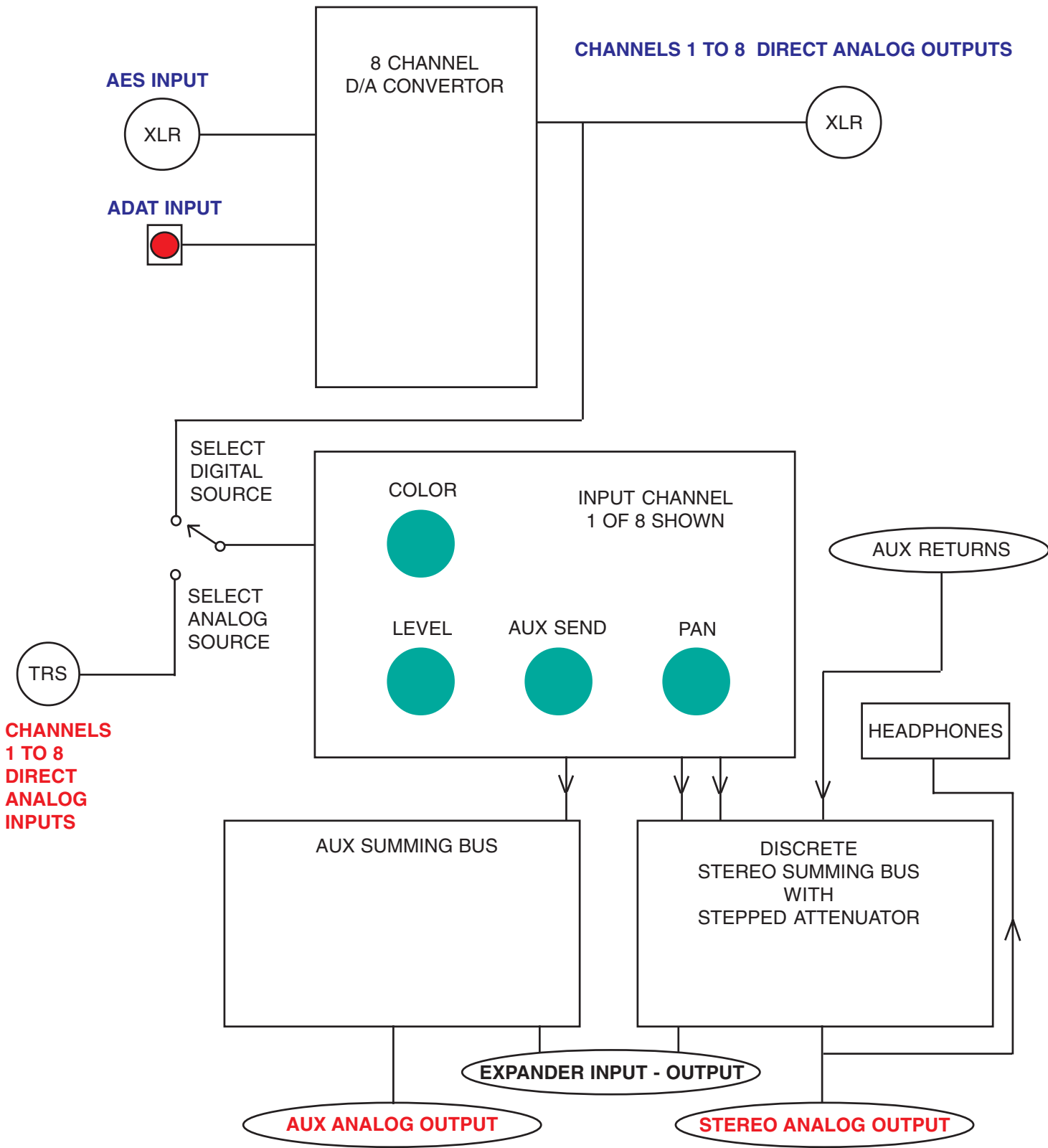


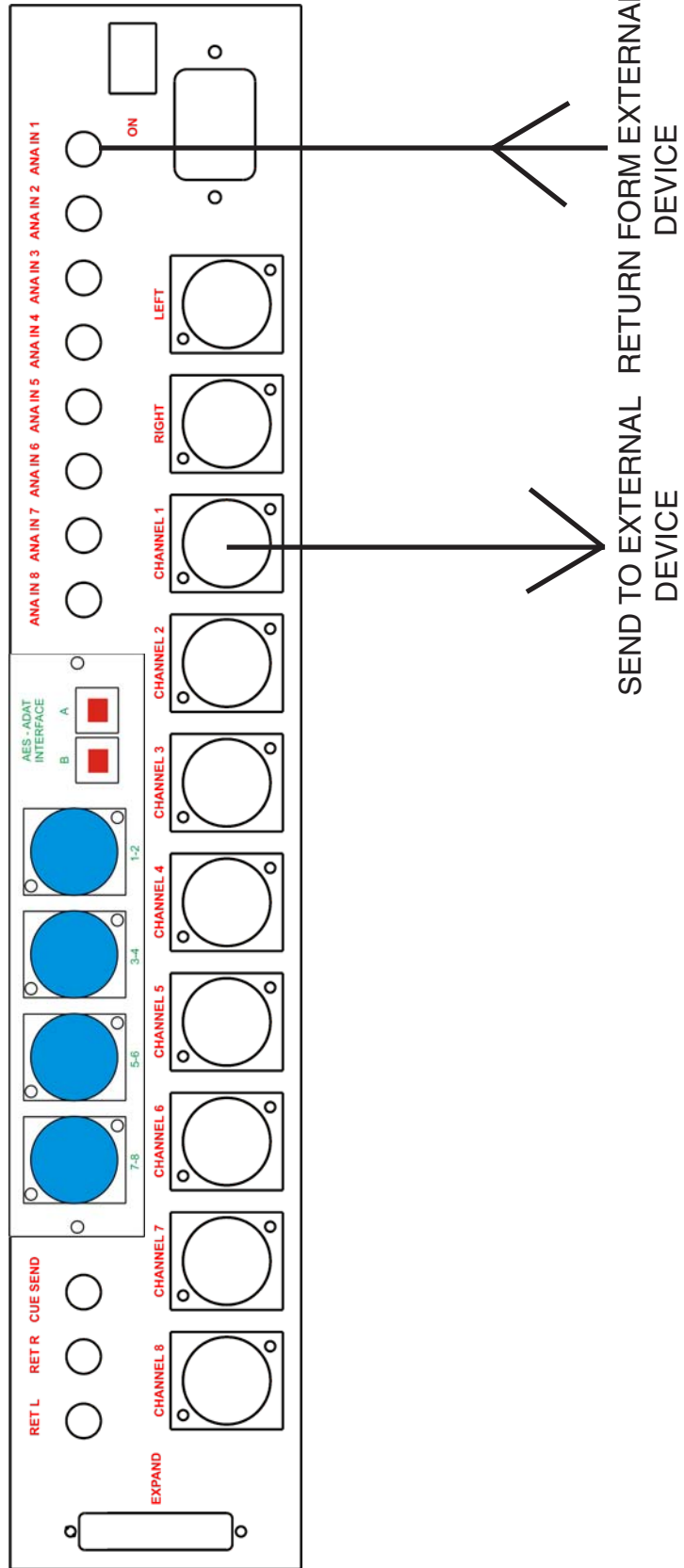
**MASTER** THIS IS THE STEREO BUS LEVEL. AND IS A STEPPED ATTENUATOR. THE GREEN LED SHOWS THE LEVEL SETTING

**METER** THE METER IS PEAK READING WITH THE OVER LOAD LED (RED) COMING ON AT +25DBU.

**SRC** THIS DISABLES THE SAMPLE RATE CONVERTER. THE SRC WILL REDUCE THE JITTER OF THE INCOMING DIGITAL AUDIO. THIS ALSO ALLOWS THE USE OF BETTER FILTERS IN AUDIO RECONSTRUCTION

**PHONES** HEADPHONE MONITORING OF THE STEREO BUS

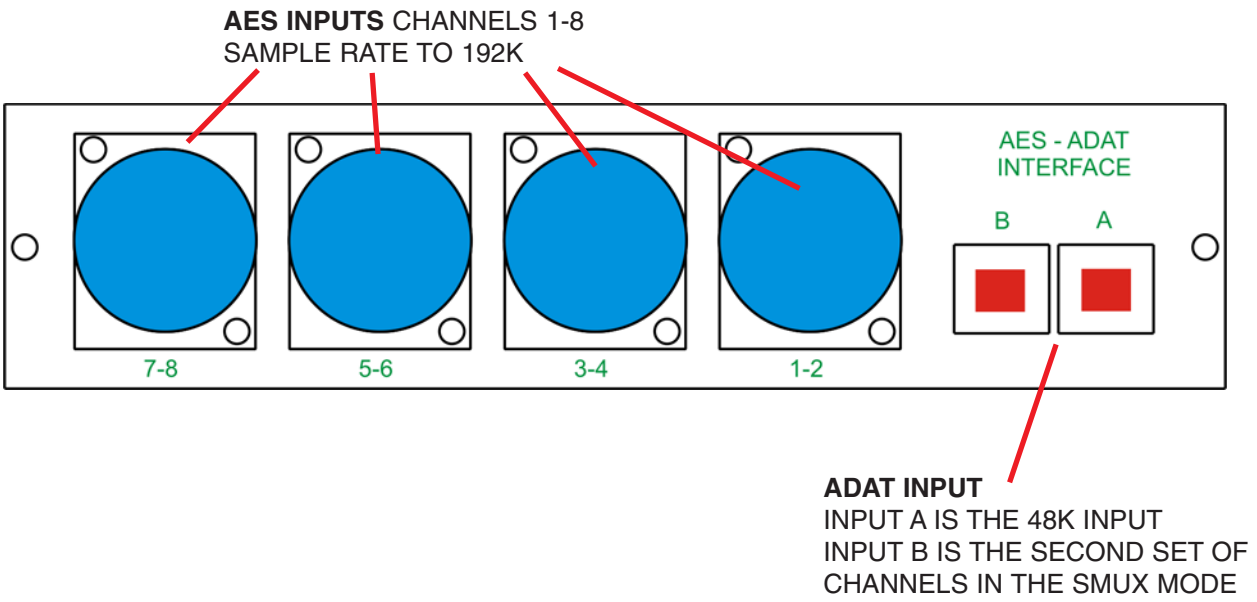




USING THE DIRECT ANALOG OUTPUT AND THE ANALOG INPUT AS AN INSERT POINT

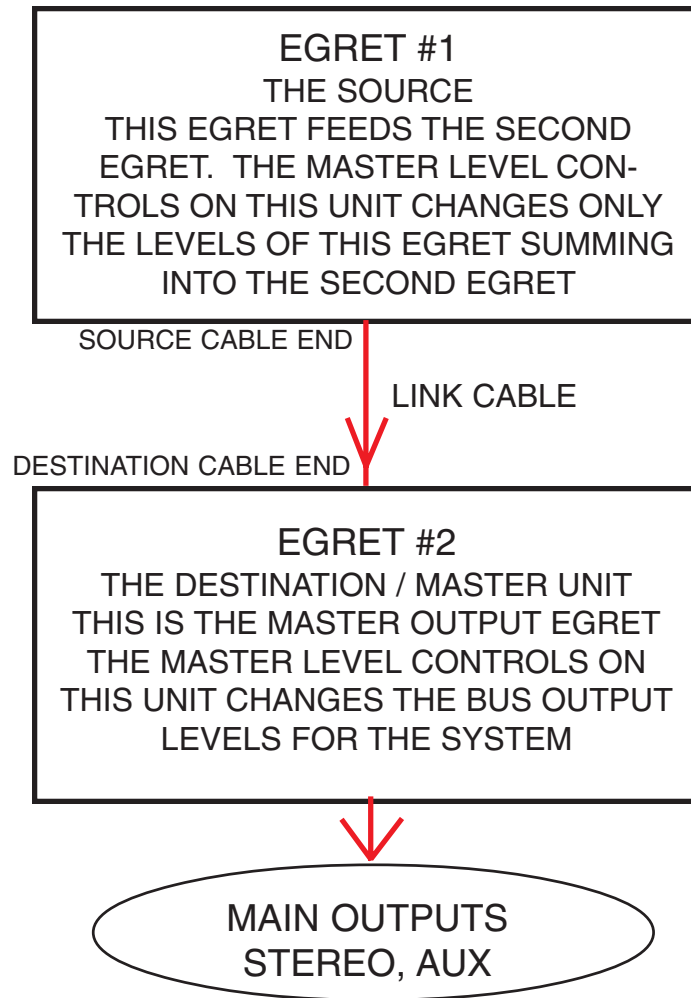






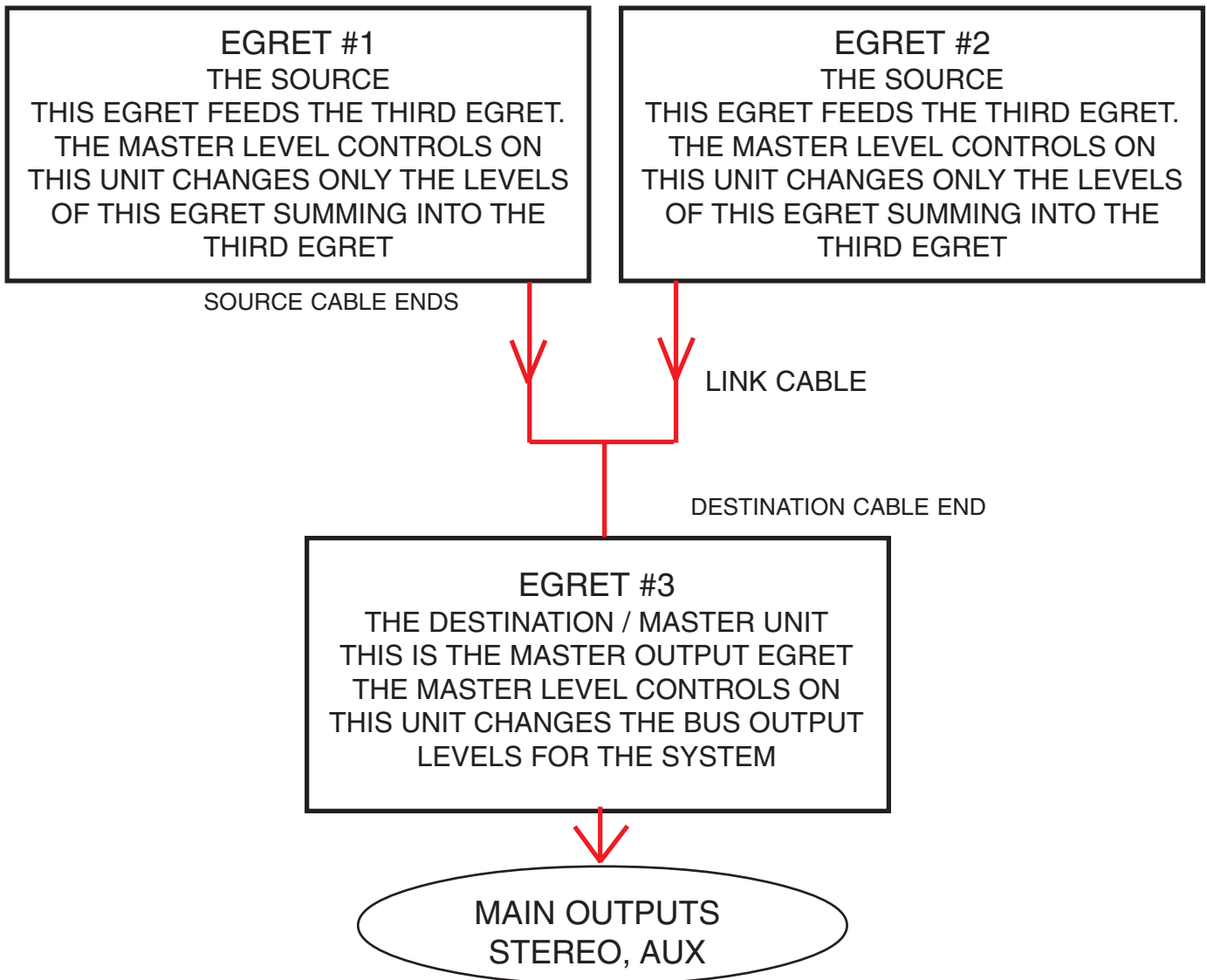
## DIGITAL INTERFACE

# 16 CHANNEL SUMMING



In this configuration each of the two Egrets has 8 digital / analog inputs for a total of 16 inputs. Linking the units together works by tying the summing bus inputs to the appropriate outputs. The source and destination units are selected by how the link cable is plugged in.

# 24 CHANNEL SUMMING

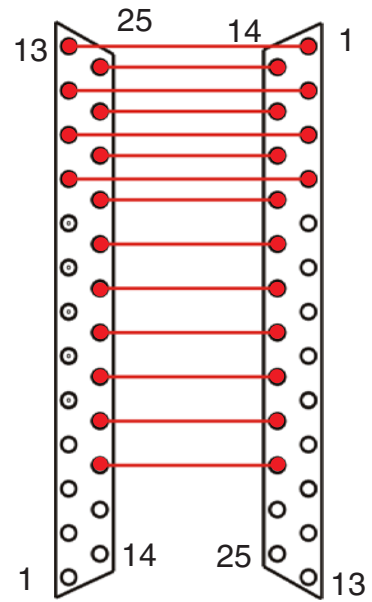
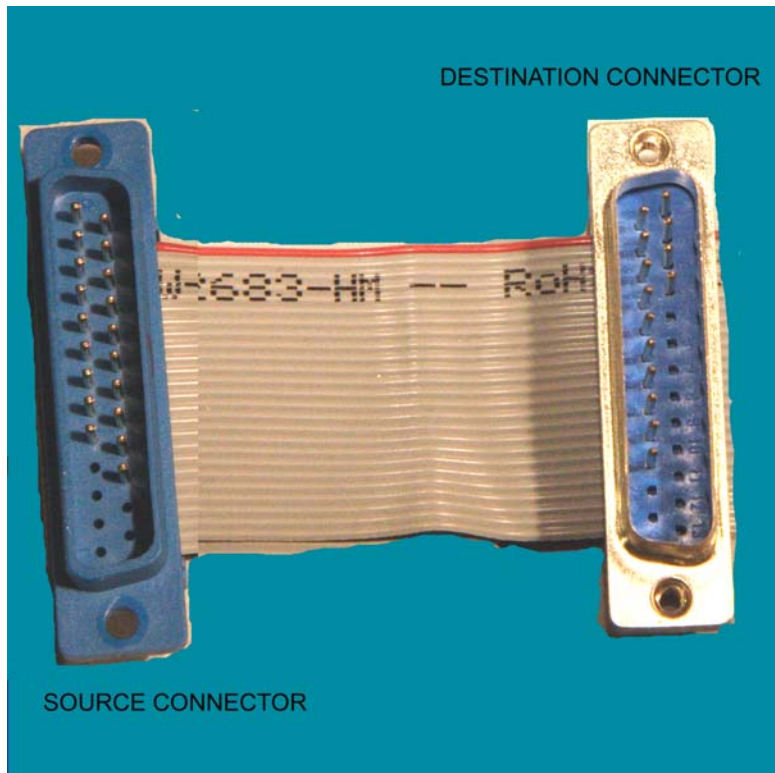


In this configuration each of the three Egrets has 8 digital / analog inputs for a total of 24 inputs. Linking the units together works by tying the summing bus inputs to the appropriate outputs.

For 56 inputs units one and two can have 2 Egrets feeding into each of them following the same pattern.

## EGRET DB-25 EXPANDER CONNECTOR PIN OUT

RIGHT 1 RETURN -	1
RIGHT 1 RETURN +	2
LEFT 1 RETURN -	3
LEFT 1 RETURN +	4
RIGHT 2 RETURN -	5
RIGHT 2 RETURN +	6
LEFT 2 RETURN -	7
LEFT 2 RETURN +	8
GND	9
LEFT SEND + (MAIN OUT)	10
LEFT SEND - (MAIN OUT)	11
RIGHT SEND + (MAIN OUT)	12
RIGHT SEND - (MAIN OUT)	13
AUX RETURN 1 SIG -	14
AUX RETURN 1 SIG +	15
AUX RETURN 2 SIG -	16
AUX RETURN 2 SIG +	17
GND	18
SOLO BUS LOGIC	19
SOLO BUS LOGIC	20
GND	21
GND	22
GND	23
AUX SEND +	24
AUX SEND -	25



## 2 UNIT EXPANSION CONNECTOR

THIS END IS THE  
SOURCE UNIT

THIS END IS THE  
DESTINATION UNIT  
THE MASTER  
OUTPUT

	1	13	
	2	12	
	3	11	
	4	10	
RIGHT 2 RETURN -	5	6	
RIGHT 2 RETURN +	6	8	
LEFT 2 RETURN -	7	7	
LEFT 2 RETURN +	8	9	
GND	9	5	
LEFT SEND +	10	4	LEFT 1 RETURN +
LEFT SEND -	11	3	LEFT 1 RETURN -
RIGHT SEND +	12	2	RIGHT 1 RETURN +
RIGHT SEND -	13	1	RIGHT 1 RETURN -
	14	25	
	15	24	
AUX RETURN 2 SIG -	16	23	GND
AUX RETURN 2 SIG +	17	22	GND
GND	18	21	GND
SOLO BUS	19	20	SOLO BUS
SOLO BUS	20	19	SOLO BUS
GND	21	18	GND
GND	22	17	AUX RETURN 2 SIG +
GND	23	16	AUX RETURN 2 SIG -
AUX SEND +	24	15	AUX RETURN 1 SIG +
AUX SEND -	25	14	AUX RETURN 1 SIG -

A cable with a twist. By putting a twist in a ribbon cable and leaving some pins out it is possible to make a simple two Egret link cable to 16 channels of summing

Blue pins are removed for the connectors