

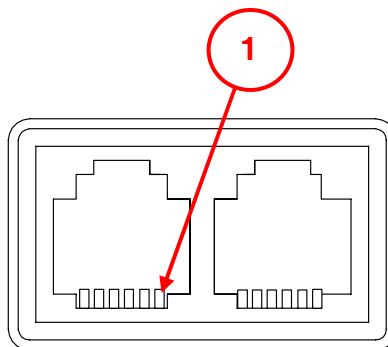
## APPENDIX A - I/O CONNECTORS AND PIN-OUT TABLES

### A-1 TABLE OF I/O CONNECTORS

CONNECTOR NAME	CONNECTOR TYPE	SIGNAL IN/OUT	SIGNAL TYPE
MIC/ACC	8 Pin DIN	IN/OUT	See Pin-Out Table
AUX RF OUT	BNC	OUT	RF
ANTENNA	TNC	IN	RF, 0.25 W CW MAX
AC LINE IN	AC Power	IN	120/240 VAC
DC IN		OUT	12 Vdc, 24 to 30 Vdc
GPIB (IEEE-488)	24 Pin Champ	IN/OUT	See Pin-Out Table
SA IF	BNC	OUT	SPECTRUM ANALYZER IF
SA VIDEO	BNC	OUT	SPECTRUM ANALYZER DETECTOR OUT
Q OUT	BNC	OUT	NOT USED
I OUT	BNC	OUT	NOT USED
SYNC	BNC	IN	
EXT TRIG	BNC	IN	AUX OSCILLOSCOPE TRIGGER IN
EXT REF IO	BNC	IN/OUT	FREQ STD IN/OUT

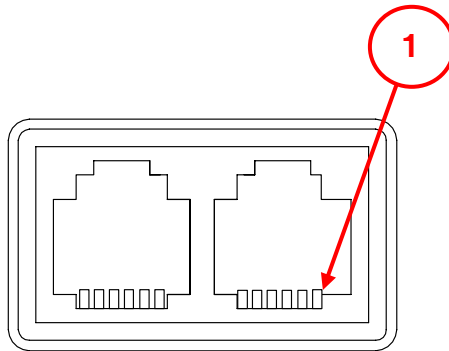
## A-2 PIN-OUT TABLE FOR MIC CONNECTOR

PIN NUMBER	SIGNAL NAME	SIGNAL TYPE	I/O
1	GND	GND	GND
2	GND	GND	GND
3	MIC IN	IN	DYNAMIC/ELECTRET
4	PTT	IN	GND=PUSH
5	AUDIO 2(+)	OUT	AUDIO FREQ OUT #2
6	AUDIO 2 GND	GND	AUDIO FREQ OUT #2 GND



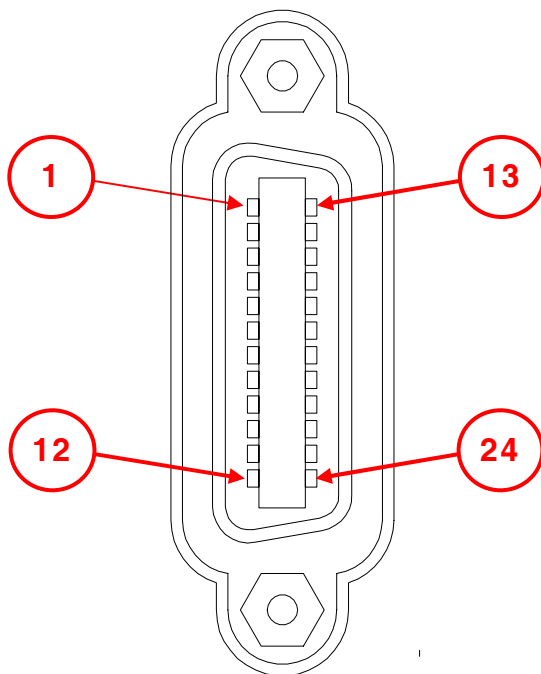
### A-3 PIN-OUT TABLE FOR AUDIO I/O CONNECTOR

PIN NUMBER	SIGNAL NAME	SIGNAL TYPE	I/O
1	AUDIO IN (+)	IN	AUDIO FREQ IN, BAL/UNBAL, (+)
2	AUDIO IN (-)	IN/GND	AUDIO FREQ IN, BAL/UNBAL, (-)/GND
3	AUDIO 1 (+)	OUT	AUDIO FREQ OUT #1, BAL/UNBAL, (+)
4	AUDIO 1 (-)	OUT/GND	AUDIO FREQ OUT #1, BAL/UNBAL, (-)/GND
5	AUDIO 2 (+)	OUT	AUDIO FREQ OUT #2
6	AUDIO 2 GND	GND	AUDIO FREQ OUT #2 GND



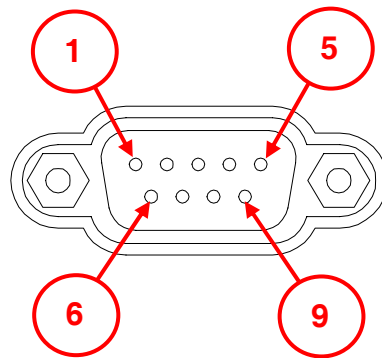
## A-4 PIN-OUT TABLE FOR GPIB CONNECTOR

PIN NUMBER	ASSIGNMENT	PIN NUMBER	ASSIGNMENT
1	DIO 1	13	DIO 5
2	DIO 2	14	DIO 6
3	DIO 3	15	DIO 7
4	DIO 4	16	DIO 8
5	EOI	17	REN
6	DAV	18	DIGITAL GND
7	NFRD	19	DIGITAL GND
8	NDAC	20	DIGITAL GND
9	IFC	21	DIGITAL GND
10	SRO	22	DIGITAL GND
11	ATN	23	DIGITAL GND
12	DIGITAL GND	24	DIGITAL GND



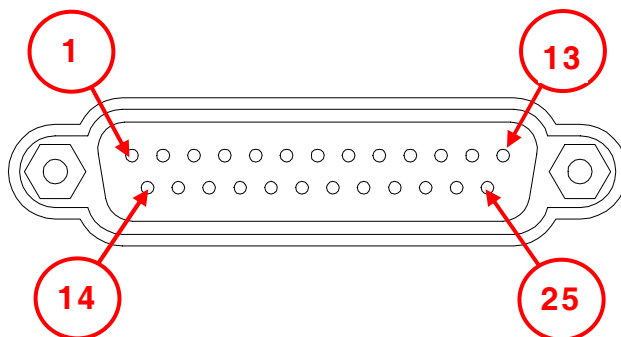
## A-5 PIN-OUT TABLE FOR RS-232 CONNECTOR

PIN NUMBER	ASSIGNMENT	SIGNAL NAME
1	INPUT	DATA CARRIER DETECT (DCD)
2	INPUT	RECEIVE DATA (RX)
3	OUTPUT	TRANSMIT DATA (TX)
4	OUTPUT	DATA TERMINAL READY (DTR)
5	POWER	DIGITAL GND
6	INPUT	DATA SET READY (DSR)
7	OUTPUT	REQUEST TO SEND (RTS)
8	INPUT	CLEAR TO SEND (CTS)
9	INPUT	RING INDICATOR (RI0)



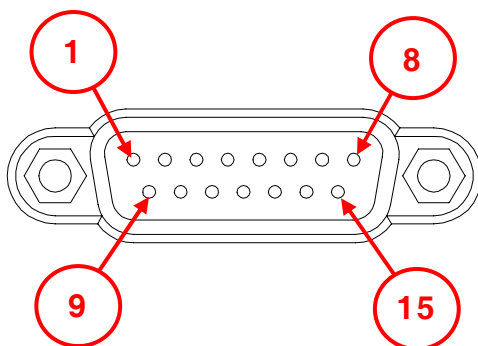
## A-6 PIN-OUT TABLE FOR PRINTER CONNECTOR

PIN NUMBER	ASSIGNMENT	SIGNAL NAME
1	BI-DIRECTIONAL	/STROBE
2	BI-DIRECTIONAL	PD0
3	BI-DIRECTIONAL	PD1
4	BI-DIRECTIONAL	PD2
5	BI-DIRECTIONAL	PD3
6	BI-DIRECTIONAL	PD4
7	BI-DIRECTIONAL	PD5
8	BI-DIRECTIONAL	PD6
9	BI-DIRECTIONAL	PD7
10	INPUT	/ACK
11	INPUT	BUSY
12	INPUT	PE
13	INPUT	SLCT
14	BI-DIRECTIONAL	/AFD
15	INPUT	/ERR
16	BI-DIRECTIONAL	/INIT
17	BI-DIRECTIONAL	/SLIN
18	POWER	GND
19	POWER	GND
20	POWER	GND
21	POWER	GND
22	POWER	GND
23	POWER	GND
24	POWER	GND



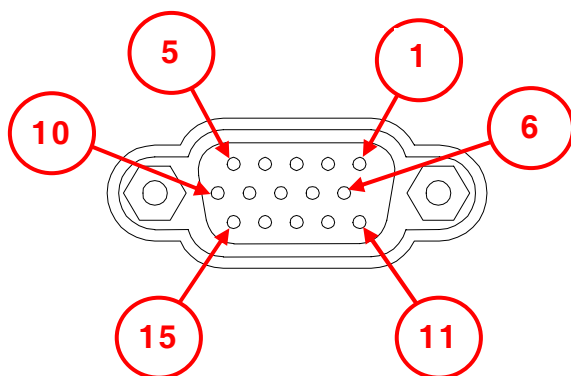
## A-7 PIN-OUT TABLE FOR TEST PORT CONNECTOR

PIN NUMBER	ASSIGNMENT	PIN NUMBER	ASSIGNMENT
1	DIGITAL IN 1	9	DIGITAL OUT 1
2	DIGITAL IN 2	10	DIGITAL OUT 2
3	DIGITAL IN 3	11	DIGITAL OUT 3
4	DIGITAL IN 4	12	DIGITAL OUT 4
5	DIGITAL IN 5	13	SERIAL OUT
6	N/C	14	N/C
7	GND	15	GND
8	PGM V+ OUT		



## A-8 PIN-OUT TABLE FOR VGA CONNECTOR

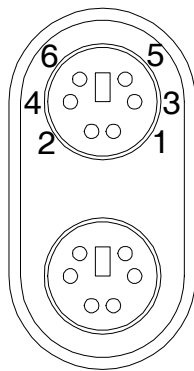
PIN NUMBER	ASSIGNMENT	PIN NUMBER	ASSIGNMENT
1	RED VIDEO	9	N/C
2	GREEN VIDEO	10	SYNC RETURN
3	BLUE VIDEO	11	MONITOR ID 0
4	MONITOR ID 2	12	MONITOR ID 1
5	GND	13	HORIZONTAL SYNC
6	RED RETURN	14	VERTICAL SYNC
7	GREEN RETURN	15	MONITOR ID 3
8	BLUE RETURN		





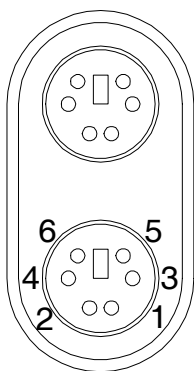
## A-9 PIN-OUT TABLE FOR MOUSE CONNECTOR

PIN NUMBER	SIGNAL NAME	SIGNAL TYPE	I/O
1	MDATA	Bi-Directional	Mouse Data
2		N/C	
3	GND	Power	GND
4	+5 V	Power	Supply Voltage
5	MCLK	Bi-Directional	Mouse Clock
6		N/C	
Shell		Earth Ground	Chassis Ground



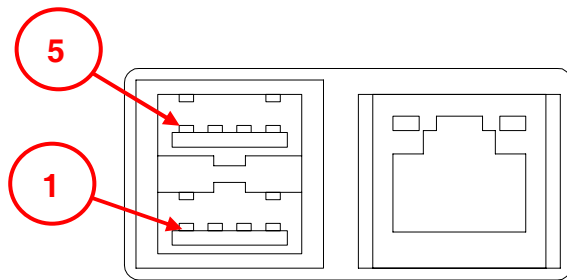
## A-10 PIN-OUT TABLE FOR KEYBOARD CONNECTOR

PIN NUMBER	SIGNAL NAME	SIGNAL TYPE	I/O
1	KBDATA	Bi-Directional	Keyboard Data
2		N/C	
3	GND	Power	GND
4	+5 V	Power	Supply Voltage
5	KBCLK	Bi-Directional	Keyboard Clock
6		N/C	
Shell		Earth Ground	Chassis Ground



## A-11 PIN-OUT TABLE FOR USB CONNECTOR

PIN NUMBER	SIGNAL NAME	SIGNAL TYPE	I/O
1	VCC	PWR	
2	(-) DATA	DATA	I/O
3	(+) DATA	DATA	I/O
4	GND	PWR	
5	VCC	PWR	
6	(-) DATA	DATA	I/O
7	(+) DATA	DATA	I/O
8	GND	PWR	



## A-12 PIN-OUT TABLE FOR ETHERNET CONNECTOR

PIN NUMBER	SIGNAL NAME	SIGNAL TYPE	I/O
1	TX (+)	DATA	OUT
2	TX (-)	DATA	OUT
3	RX (+)	DATA	IN
4	RX (-)	DATA	IN
5	GND	GND	GND
6	GND	GND	GND
7	GND	GND	GND
8	GND	GND	GND

