

VIDEO #1  
DB-25 CONNECTOR

VIDEO BOARD 1 AT: VME SLOT 8 DAC ADDR== SWITCH ADDR==

PIN	NAME	FUNCTION	CCD No.	AMP	RANGE	CODE	PIN	NAME
1	BIAS0	OUTPUT DRAIN (Vdd)	(-)	(A)	+7.5 -> +30V	-	13	GND
2	BIAS1	OUTPUT DRAIN (Vdd)	(-)	(A)	+7.5 -> +30V	-	14	+15V
3	BIAS2	BIAS SPARE 1	(-)		+6.0V -> +20V	-	15	-15V
4	BIAS3	BIAS SPARE 2	(-)		+6.0V -> +20V	-	16	GND
5	BIAS4	RESET DRAIN (Vrd)	(-)	(A)	+6.0V -> +20V	-	17	GND
6	BIAS5	RESET DRAIN (Vrd)	(-)	(A)	+6.0V -> +20V	-	18	GND
7	BIAS6	GUARD RING (Vgrd)	(-)	(BOTH)	+6.0V -> +20V	-	19	GND
8	BIAS7	GUARD RING (Vgrd)	(-)	(BOTH)	+6.0V -> +20V	-	20	GND
9	BIAS8	OUTPUT GATE (Vopg)	(-)	(A)	-5V -> +5V	-	21	GND
10	BIAS9	OUTPUT GATE (Vopg)	(-)	(A)	-5V -> +5V	-	22	GND
11	BIAS10	SUBSTRATE (Vsub)	(-)	(BOTH)	-10V -> +10V	-	23	GND
12	BIAS11	SUBSTRATE (Vsub)	(-)	(BOTH)	-10V -> +10V	-	24,25	GND

--- NOT USED ---

VIDEO #2  
DB-25 CONNECTOR

VIDEO BOARD 2 AT: VME SLOT 7 DAC ADDR== SWITCH ADDR==

PIN	NAME	FUNCTION	CCD No.	AMP	RANGE	CODE	PIN	NAME
1	BIAS0	OUTPUT DRAIN			+7.5 -> +30V	-	13	GND
2	BIAS1	OUTPUT DRAIN			+7.5 -> +30V	-	14	+15V
3	BIAS2	BIAS SPARE 1			+6.0V -> +20V	-	15	-15V
4	BIAS3	BIAS SPARE 2			+6.0V -> +20V	-	16	GND
5	BIAS4	RESET DRAIN			+6.0V -> +20V	-	17	GND
6	BIAS5	RESET DRAIN			+6.0V -> +20V	-	18	GND
7	BIAS6	GUARD RING			+6.0V -> +20V	-	19	GND
8	BIAS7	GUARD RING			+6.0V -> +20V	-	20	GND
9	BIAS8	OUTPUT GATE			-5V -> +5V	-	21	GND
10	BIAS9	OUTPUT GATE			-5V -> +5V	-	22	GND
11	BIAS10	SUBSTRATE			-10V -> +10V	-	23	GND
12	BIAS11	SUBSTRATE			-10V -> +10V	-	24,25	GND

VIDEO #3  
DB-25 CONNECTOR

VIDEO BOARD 3 AT: VME SLOT 6 DAC ADDR== SWITCH ADDR==

PIN	NAME	FUNCTION	CCD No.	AMP	RANGE	CODE	PIN	NAME
1	BIAS0	OUTPUT DRAIN (Vdd)	(-)	(A)	+7.5 -> +30V	-	13	GND
2	BIAS1	OUTPUT DRAIN (Vdd)	(-)	(A)	+7.5 -> +30V	-	14	+15V
3	BIAS2	BIAS SPARE 1			+6.0V -> +20V	-	15	-15V
4	BIAS3	BIAS SPARE 2			+6.0V -> +20V	-	16	GND
5	BIAS4	RESET DRAIN (Vrd)	(-)	(A)	+6.0V -> +20V	-	17	GND
6	BIAS5	RESET DRAIN (Vrd)	(-)	(A)	+6.0V -> +20V	-	18	GND
7	BIAS6	GUARD RING (Vgrd)	(-)	(BOTH)	+6.0V -> +20V	-	19	GND
8	BIAS7	GUARD RING (Vgrd)	(-)	(BOTH)	+6.0V -> +20V	-	20	GND
9	BIAS8	OUTPUT GATE (Vopg)	(-)	(A)	-5V -> +5V	-	21	GND
10	BIAS9	OUTPUT GATE (Vopg)	(-)	(A)	-5V -> +5V	-	22	GND
11	BIAS10	SUBSTRATE (Vsub)	(-)	(BOTH)	-10V -> +10V	-	23	GND
12	BIAS11	SUBSTRATE (Vsub)	(-)	(BOTH)	-10V -> +10V	-	24,25	GND

VIDEO #4

DB-25 CONNECTOR

VIDEO BOARD 4 AT: VME SLOT 5 DAC ADDR== SWITCH ADDR==

PIN	NAME	FUNCTION	CCD No.	AMP	RANGE	CODE	PIN	NAME
1	BIAS0	OUTPUT DRAIN			+7.5 -> +30V	-	13	GND
2	BIAS1	OUTPUT DRAIN			+7.5 -> +30V	-	14	+15V
3	BIAS2	BIAS SPARE 1			+6.0V -> +20V	-	15	-15V
4	BIAS3	BIAS SPARE 2			+6.0V -> +20V	-	16	GND
5	BIAS4	RESET DRAIN			+6.0V -> +20V	-	17	GND
6	BIAS5	RESET DRAIN			+6.0V -> +20V	-	18	GND
7	BIAS6	GUARD RING			+6.0V -> +20V	-	19	GND
8	BIAS7	GUARD RING			+6.0V -> +20V	-	20	GND
9	BIAS8	OUTPUT GATE			-5V -> +5V	-	21	GND
10	BIAS9	OUTPUT GATE			-5V -> +5V	-	22	GND
11	BIAS10	SUBSTRATE			-10V -> +10V	-	23	GND
12	BIAS11	SUBSTRATE			-10V -> +10V	-	24,25	GND

6 VIDEO BOARDS - ONE BOARD FOR EACH AMPLIFIER

THESE SIGNALS NOT WIRED

UNIVERSITY OF CALIFORNIA  
LICK OBSERVATORY

PIN ASSIGNMENTS  
VIDEO BOARD OUTPUT CONNECTORS  
HIRES SDSU2 CCD CONTROLLER

REVISION

07-29-04 ADDED SOME DETAILS

DES'N BY: B. Alcott

ORIGIN DATE: 07-31-02

DWG. NO.

NUM. 1 OF 2

DRAWN BY:

MODIFY DATE: 07-29-04

PATH: HIRES\CCD\_UPGRADE\VIDEOCON

REV. A

EL-3421