

GALIL DMC-4080
EXTENDED I/O PIN ASSIGNMENTS

PIN I/O	LABEL	TO	FUNCTION	GALIL	PIN I/O	LABEL	TO	FUNCTION		
1	I	I/O18	J1-B	5th MIRROR IS EXTENDED (IN BEAM)	23	O	I/O35	BRD2-7	COMMAND 5th MIRROR COVER OPEN	PULSE
2	I	I/O21	J1-E	MIRROR COVER IS CLOSED	24	O	I/O37	BRD1-3	COMMAND TV MAGNIFICATION TO HIGH	PULSE
3	I	I/O24	J1-H	IODINE CELL IS RETRACTED (OUT OF BEAM)	25		NC			
4	I	I/O26	J1-K	IODINE CELL IS IN PLACE	26	O	I/O40	BRD3-9	COMMAND IODINE CELL EXTEND (IN BEAM)	PULSE
5	I	I/O29	-	-	27	O	I/O43	-	-	
6	I	I/O32	-	-	28	O	I/O46	-	-	
7	O	I/O33	BRD3-3	COMMAND 5th MIRROR EXTEND (IN BEAM)	29	O	I/O48	-	-	
8	O	I/O36	BRD2-9	COMMAND 5th MIRROR COVER CLOSE	30		+3.3V			
9	O	I/O38	BRD1-5	COMMAND TV MAGNIFICATION TO LO	31	I	I/O19	J1-C	IODINE CELL IS EXTENDED (IN BEAM)	
10		NC			32	I	I/O22	J1-F	TV MAGNIFICATION IS LOW	
11	O	I/O41	BRD1-7	SET COVER POWER ON (LEVEL)	33		Ground	-	-	
12	O	I/O44	-	-	34	I	I/O27	J1-L	AIR PRESSURE IS OK	
13	O	I/O47	-	-	35	I	I/O30	-	-	
14		NC			36		Ground	-	-	
15		NC			37	O	I/O34	BRD3-5	COMMAND 5th MIRROR EXTEND (IN BEAM)	PULSE
16	I	I/O17	J1-A	5th MIRROR IS RETRACTED (OUT)	38		NC			
17	I	I/O20	J1-D	MIRROR COVER IS OPEN	39		Ground	-	-	
18	I	I/O23	J1-G	TV MAGNIFICATION IS HIGH	40	O	I/O39	BRD3-7	COMMAND CELL RETRACT (OUT OF BEAM)	PULSE
19	I	I/O25	J1-J	IODINE CELL IS EXTENDED (IN BEAM)	41	O	I/O42	BRD1-9	SET IODINE CELL POWER ON (LEVEL)	LEVEL
20	I	I/O28	-	-	42	O	I/O45	-	-	
21	I	I/O31	-	-	43		Ground	-	-	
22		NC			44		NC			

NOTE1: HAMILTON 8-CHANNEL CONTROLLERS ORDERED WITHOUT THE 5V OPTION. THEY ARE ABLE TO DRIVE THE OPTO-22 I/O MODULES FINE.

NOTE2: BRD REFERS TO THE OPTO-22 I/O MODULE RACK. BRD1 REFERS TO THE FRONT-MOST PANEL IN THE CHASSIS. BRD2 IS THE MIDDLE AND BRD 3 IS CLOSEST TO THE REAR PANEL.

NOTE2: BRD PIN NUMBERS REFER TO 'CONTROL' SIDE SCREW TERMINALS.

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REVISIONS	http://loel.ucolick.org/manual/Hamilton_II/schematics/HAM_II_box_wiring_sh_11.pdf
10-20-09	ADDED THIS SHEET - INCORPORATING IODINE CELL AND 5th MIRROR CONTROL
11-03-09	ADDED GUIDE TV MAGNIFICATION SIGNALS (OUTPUTS BITS 37 & 38 INPUT BITS 22 & 23)
06-30-10	ADDED NOTE 1 - ALL LICK CONTROLLERS ARE ORDERED WITH 5V OPTION

UNIVERSITY OF CALIFORNIA LICK OBSERVATORY		8-CHANNEL CONTROLLER EXTENDED I/O HAMILTON SPECTROGRAPH II	
DES'N BY: B. Alcott	ORIGIN DATE: 06-27-08	DWG. NO.	NUM. 11 OF 12
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