

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
1	Signal Names		Connections to boards internal to the UCAM controller				Connections on UCAM housing bulkhead (see note 1)				Connectors for preamplifier				Dewar Vacuum Feedthrough	Dewar Interconnect	CCD42-90		
2	UCAM Signal Name	CCD42-90 Signal Name	Clock Driver Board (CDB) J2 connector	Timing Board JAUX, EX, EX2, and EX3 connectors	Signal Processing Board 0 (SPB0) J2 connector	Signal Processing Board 1 (SPB1) J2 connector	Motherboard J2, J2A, J5 connectors	Dewar bulkhead connector J1, Clock Cable (37-pin)	Dewar bulkhead connector J2, Bias Cable (24-pin)	8-Pin connector	Video coax connectors	Input Clock Cable (37 pin)	Input Bias Cable (24 pin)	Output J3 Preamp to dewar (42-pin)	Video In (coax)	Video Out on box (coax)	Dewar Hermetic Connector (41-pin)	Two ZIF Connectors each 20-pin	ZIF Connector
3	V11		2					1				1		3			m	Z1-9	
4	GND		1					20				20							
5	V12		3					2				2		5					
6	GND							21				21							
7	V13		4					3				3		7			t	Z2-17	
8	GND							22				22							
9	TB		5					4				4		9			c	Z2-15	
10	GND							23				23							
11	VS1	IØ2	6					5				5		4			n	Z1-1	E8
12	GND							24				24							
13	VS2	IØ3	7					6				6		6			a	Z1-2	F8
14	GND							25				25							
15	VS3	IØ1	8					7				7		8			F	Z1-3	D8
16	GND							26				26							
17	TA	DG	9					8				8		10			P	Z1-5	F3
18	GND							27				27							
19	H1	RØ3	12					9				9		13			f	Z1-6	F6
20	GND							28				28							
21	H2R	RØ1(R)	13					10				10		15			q	Z1-7	D5
22	GND							29				29							
23	H3R	RØ2(R)	14					11				11		17			p	Z1-8	E5
24	GND							30				30							
25	W	ØSW (L,R)	15					12				12		19			b	Z1-10	E2, E7
26	GND							31				31							
27	H2L	RØ1(L)	16					13				13		14			Z	Z2-18	D4
28	GND							32				32							
29	H3L	RØ2(L)	17					14				14		16			E	Z2-19	E4
30	GND							33				33							
31	R	ØR (L,R)	18					15				15		18			D	Z1-11	E3, E6
32	AGND	GND	1,20			8,16		34				34		2,12,20,34			B,W,X,i,T,V	Z1-20, Z2-20	A1,C1, A8,C8, F2,F7, A3,A6
33																			
34	VC1							16				16							
35	DGND			JAUX-1, EX-5				35											
36	VC2							17				17							
37	DGND							36											
38	ENV			JAUX-6, EX-4				18				18							
39	VCC			JAUX-2, EX-1				19 and 37	9			9							
40																			
41	+15V							1				1							
42	+V _{dd} A1	OD(R)						2				14		21			e	Z1-12	B8
43	+V _{dd} B1	OD(L)						3				6		22			S	Z2-14	B1
44	+V _o	DD (L,R)			4			4				2		23			r	Z2-16	B2, B7
45	+V _o 1	RD (L,R)						4				19		24			N	Z1-13	C2, C7
46	V _{opp0}	OG1 (L,R)				5						15		25			R	Z1-14	D3,D6
47	V _{opp1}	OG2 (L,R)						5				7		26			G	Z1-4	D2,D7
48	V _{sub0}				6							3		27			g	Z1-15	
49	-15V							9				4							
50	CryoDiode-											17		29			H	Z2-12	
51	CryoDiode+											8		30			Y	Z2-7	
52	+V _{dd} A0	JD(R)				2						5		31			k	Z2-11	C6
53	+V _{dd} B0	JD(L)				3						21		32			j	Z2-8	C3
54																			
55	CS			JAUX-10, EX2-1										22					
56	SCK			JAUX-9, EX2-2										10					
57	DO			JAUX-8, EX2-3										23					
58	DI			JAUX-7, EX2-4										11					
59																			
60	HEAT+							J5-1				24		39			J	Z2-1	
61	HEAT-							J5-2				12		40			K	Z2-2	
62	TEMP+ (CCD)							J5-3				25		41			L	Z2-3	
63	TEMP- (CCD)							J5-4				13		42			M	Z2-4	
64														16,20					
65	Bit 0 (IN)			EX3-1															
66	Bin 2 (IN)			EX3-2															
67	DGND			EX3-3															
68																			
69	VideoBR																s	Z1-16	
70	VideoAR	OS(R)				P1									P1	R	U	Z1-17	B6
71	VideoBL																C	Z1-18	
72	VideoAL	OS(L)													P3	L	A	Z1-19	B3
73																			
74	Note 1: All ground wires (GND) for the UCAM housing J1 DB-37 connectors are connected together and are connected to analog ground (AGND).																		