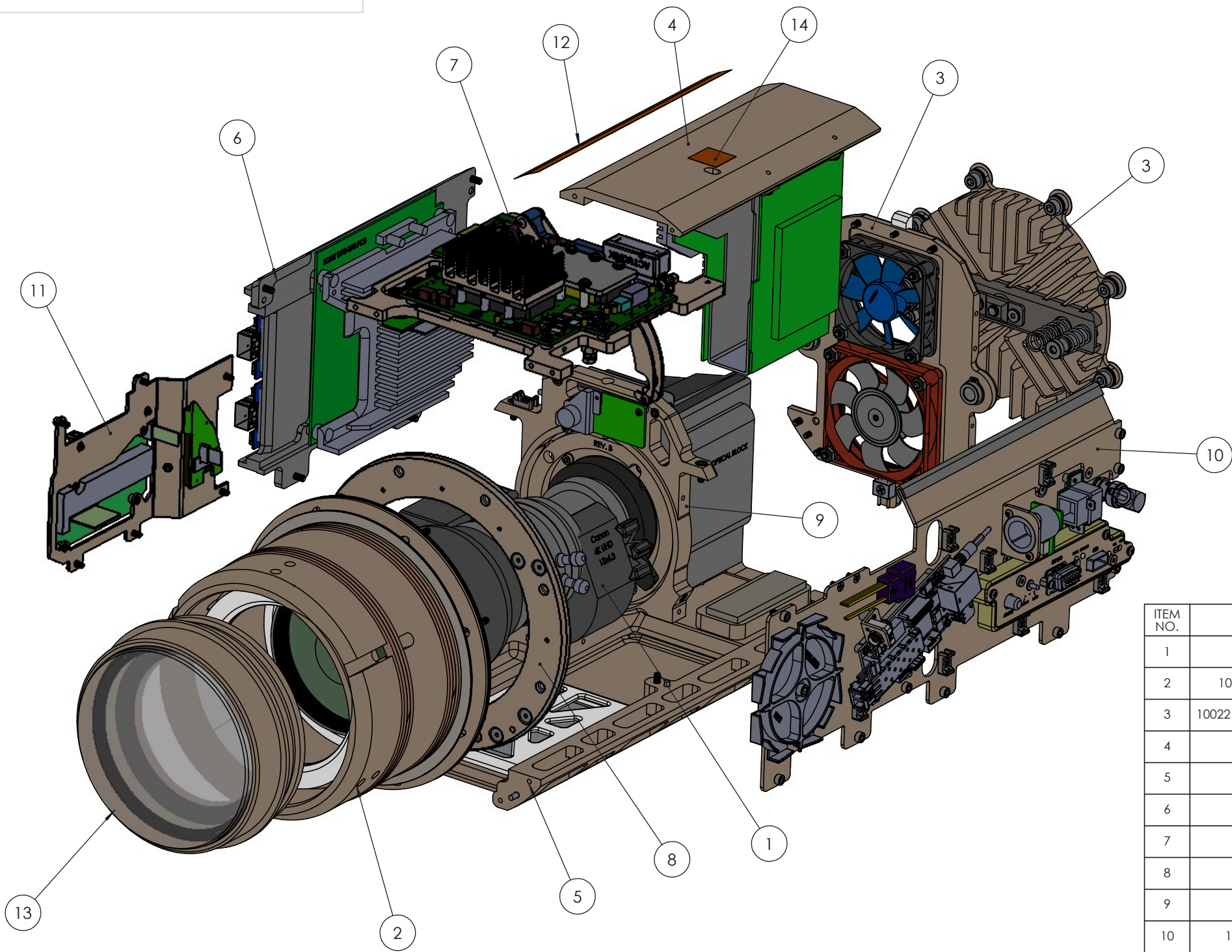


REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	XX	XX/XX/202X	
C	XX	XX/XX/202X	



NOTE 1. SOLID MODEL LOCATION:
\\atlas\ProjectLibrary\902001_4K_ROVCameraDevelopment
\EngineeringDesignDocuments\MechanicalDesign\4K_CameraChassis\100221414-01-A_4KSonyP50Chassis.SLDASM

NOTE 2. KAPTON TAPE STRIP ITEMS# 12 & 14 MUST BE APPLIED AFTER ASSEMBLY TO SEAL CAMERA AIR PLENUM.

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Canon15x4.3Lens	Canon15x4.3Lens w/ 2x extender	1
2	100221414-05-A_ChassisAlignmentConeAssembly	MBARI Chassis alignment cone assembly	1
3	100221414-41-A_BulkheadMount&RearChassis_Assembly	Bulkhead mount and rear chassis assembly	1
4	100221414-19-A_CameraTopPlateAssembly	CameraTopPlateAssembly	1
5	100221414-03-A_BasePlateAssembly	Chassis base plate assembly	1
6	100221414-38-A_RightChassisPanelAssembly	Right chassis panel assembly	1
7	100221414-10-A_ChassisTopPlateAssembly	Chassis top plate assembly	1
8	100221414-16-A_FrontChassisPlateAssembly	Front chassis plate assembly	1
9	100221414-24-B_OpticalBlockMountAssembly	Optical block mount assembly	1
10	100221414-36-A_LeftSideChassisPanelAssembly	Left side chassis panel assembly	1
11	100221414-21-A_LensServoPanelAssembly	Lens servo panel assembly	1
12	100221414-46-A_KaptonTapeStrip	7.2", raw material Digikey PN 2363-KPT2-3/4-ND	1
13	89L_Optics_Assembly_20200812a	DeepSea/Fathom Imaging 89L_Optics_Assembly	1
14	100221414-46-B_KaptonTapeStrip	0.75", raw material Digikey PN 2363-KPT2-3/4-ND	1

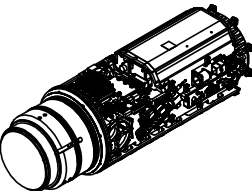
Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS		DATE	
Inspector		1 PLACE DIM ±.125	2 PLACE DIM ±.050	3 PLACE DIM ±.025	ANGLE ±.005	DRAWN MRC	01/18/2021
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILLET RADI .015-.020. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE.				ENGINEER MARK R. CHAFFEY (831) 775-1708 mrc@mbari.org	MBARI 7700 Sandholdt Rd. Moss Landing, CA 95039 PH: (831) 775-1700
Engineer						PROJECT No. 902001	4K Camera Chassis Assembly
NEXT ASSY Description	NEXT ASSY Number					PROJECT Name 4K ROV CAMERA	REV. A
APPLICATION		DO NOT SCALE DRAWING		WEIGHT		SIZE C	DWG. NO. 100221414-01-A-ASM
						SCALE	CAD FILE:
						SHEET 1 OF 3	



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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Canon15x4.3Lens	Canon15x4.3Lens w/ 2x extender	1
2	Canon15x4.3Lens	Stock Canon lens	1
3	Canon_2xExtenderHousing	Canon lens part	1
4	Canon_ServoHousing_Trimmed	Canon lens part	1
5	Canon_2xExtenderLever_Extend	Canon lens part	3
6	Canon_ZoomLever	Canon lens part	2
7	100221414-05-A_ChassisAlignmentConeAssembly	MBARI Chassis alignment cone assembly	1
8	100221414-04-A_ChassisAlignmentCone	MBARI Chassis alignment cone	1
9	98625A620	0.250-80x0.375_18-8_BallEndAdjustmentScrew	3
10	100221414-08-A_LensCollar	MBARI PEEK lens collar	1
11	90585A216	#6-32x0.750_316_FlatheadSocketScrew	8
12	98625A650	0.250-80_0.50_18-8_BallEndAdjustmentScrew	3
13	100221414-06-B_AlignmetRing	MBARI alignment ring	1
14	100221414-30-A_Shim_0.100_StackAssembly	Shim stack assembly	1
15	100221414-29-A_Shim_0.005_KaptonInsulating	Shim cut from Kapton sheet	1
16	100221414-28-A_Shim_0.025	Shim_0.025_CutFromMcMasterPN9548K391	3
17	100221414-60-A_Shim_0.010	Shim_0.010_CutFromMcMasterPN9548K361	2
18	100221414-33-A_ConeShim_0.025	Shim_0.025_CutFromMcMasterPN9548K391	1
19	100221414-63-A_ConeShim_0.010	Shim_0.010_CutFromMcMasterPN9548K361	2
20	M&P_Dash432_SingleTurnPeekRing	M&P company precision peek back-up ring PN dash 432.	6
21	100221414-64-A_ConeShim_0.005	Shim_0.005_CutFromMcMasterPN9548K341	1
22	100221414-41-A_BulkheadMount&RearChassis_Assembly	Bulkhead mount and rear chassis assembly	1
23	100221414-40-B_BulkheadMount_Assembly	Bulkhead mount assembly	1
24	100221414-39-C_BulkheadMount	MBARI bulkhead mount	1
25	100221414-59-B_RearPinPlate	MBARI rear pin plate	1
26	63215K64	0.25_ID_303_SwivelBearing	1
27	90337A463	0.3125x1.00_18-8_LowProfilePrecisionShoulderScrew_ModifiedFrom90337A463	2
28	LeeSpring-LCM125FF 01 M	LeeSpring-LCM125FF 01 M stock spring	2
29	100221414-43-A_ThermalPad_0.040_RearBulkhead	Thermal pad cut from Digikey PN 926-1609-ND	1
30	100221414-57-A_ClampWasher	MBARI clamp washer	1
31	91253A312	0.250-28x1.125_Alloy_HexFlatHeadScrew	1
32	100221414-100-A_0.180_ChassisSpacer	100221414-100-A_0.180_ChassisSpacer	0.18
33	91292A125	M5x0.8x12mm_18-8_SocketHeadCapscrew	8
34	100221414-42-C_SquareClampNut	MBARI square clamp nut	1
35	94846A029	0.250-20_AlloySteelNut	1
36	90062A011	#10_NylonShoulderWasher	8
37	#10_ThermalWasher_DigikeyPN_1944-1347-ND	Stock thermal washer	8
38	90107A011	#10_316_FlatWasher	8
39	94241A260	#10_316_SplitLockWasher	8
40	90318A680	#8-32x0.1875_316_UltraLowProfileShoulderScrew	2
41	LeeSpring-LCM125FF 02 M	LeeSpring-LCM125FF 02 M stock Spring	2
42	100221414-44-A_RearChassis_Assembly	Rear chassis assembly	1
43	100221414-45-A_RearChassisPlate	MBARI rear chassis plate	1
44	100221414-95-A_RearChassisBushing	Torlon rear chassis bushing	2
45	EBMPabst_712F_Fan	Stock 70mm fan	1
46	700 F 9292504001_CKB_001_-.stp		1
47	9292504001_001_MIR.stp	MarkCustomPartTemplate	1
48	Fluegelrad.stp	MarkCustomPartTemplate	1
49	91595A112	M3x12mm_AlloySteelDowelPin	1
50	EBMPabst_612FH_60SquareFan	Model for Sony fan	1
51	98164A119	#6-32x1.0_316_ButtonHeadSocketScrew	8
52	9600K114	#6_RubberGrommet	8
53	90101A007	#6-32_18-8_ThinLocknut	8
54	92185A145	#6-32x0.3125_316_SocketHeadCapScrew	6
55	JFA2P_CONNECTOR	see electrical design	1
56	91500A306	#4-40x0.437_316_FlatHeadPhillipsScrew	1
57	100221414-50-A_RadialChassisClamp	MBARI chassis clamp	3
58	98164A065	#4-40x0.50_316_ButtonHeadSocketScrew	3
59	94241A220	#4_316_SplitLockWasher	3
60	92844A121	#4_316_FlatWasherNarrow	3

COMPLETE BILL OF MATERIALS



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
61	1873N51	#4_FlameRetardantCableMount	1
62	91735A102	#4-40x0.250_316_PanHeadPhillipsMachineScrew	1
63	91590A122	External Retaining Ring	2
64	100221414-19-A_CameraTopPlateAssembly	CameraTopPlateAssembly	1
65	100221414-18-B_CameraTopPlate	MBARI camera top plate	1
66	91595A064	M2.5x8mm_AlloyDowelPin	2
67	91595A005	M1.5x6mm_AlloyDowelPin	2
68	Sony_CenterPCB&HeatSinkModule	Sony camera parts	1
69	94102A103	M3-0.5x8mm_18-8_JIS_PhillipsPanHeadMachineScrew	5
70	92153A416	M3.0mm_LockWasher_316_SST	5
71	98690A110	M3_316_FlatWasher	5
72	SONY_NET-49_PCB	SONY NET-49 WIRELESS INTERFACE PCB	1
73	92153A406	M2.0mm_LockWasher	1
74	90965A110	M2.0 316SST FlatWasher	1
75	90116A009	M2.0-0.4x5mm 316SST PanHead Phillips Screw	1
76	100221414-03-A_BasePlateAssembly	Chassis base plate assembly	1
77	100221414-02-A_BasePlate	MBARI base plate	1
78	92185A152	#6-32x0.875_316_SocketHeadCapScrew	2
79	Dessicant_1Unit	1 unit dessicant pak	1
80	100221414-12-B_DessicantHolder	MBARI dessicant holder	1
81	91735A103	#4-40x0.3125_316_PanHeadPhillipsScrew	1
82	91595A108	M3x10mm_AlloySteelDowelPin	2
83	91595A112	M3x12mm_AlloySteelDowelPin	4
84	100221414-47-E_ThermalPad_4mmx22x65	Thermal pad cut from DigikeyPN_1168-2209-ND	1
85	1873N51	#4_FlameRetardantCableMount	1
86	91735A101	#4-40x0.1875_316_PanHeadPhillipsMachineScrew	1
87	100221414-38-A_RightChassisPanelAssembly	Right chassis panel assembly	1
88	100221414-37-A_RightChassisPanel	MBARI right chassis panel	1
89	DSP&L_744-030-013-0A_Assy_Standalone-SFP_w_no_Heatsink_Rev01_20191223a	see electrical design	2
90	100221414-27-A_RightConnectorBracket_Assembly	Right connector bracket assembly	1
91	100221414-26-A_RightConnectorBracket	MBARI right connector bracket AI sheet	1
92		Sheet	-
93	Genlock&RCP_Connector	Sony camera parts	1
94	Genlock&RCP_Connector	Sony camera parts	1
95	Hirose8PinReceptacle_MXR-8R-8SA	Sony camera parts	1
96	BNC_75Ohm_Jack_BulkheadMount_031-221-75RFX	Sony camera parts	1
97	BNC_75Ohm_Jack_BulkheadMount_031-221-75RFX	Sony camera parts	2
98	92511A127	#2x0.1875_AlumUnthreadedSpacer	2
99	91735A013	#2-56x0.3125_316_PanHead_91735A013	2
100	91698A241	M2.5-0.45x5mm_BlackOxideFlatheadScrew	2
101	91772A145	#6-32x0.3125_18-8_PanHeadScrew	2
102	91757A103	#6_18-8_InternalToothLockWasher_91757A103	2
103	9307K37	0.1875_I.D._RubberGrommet	3
104	91595A112	M3x12mm_AlloySteelDowelPin	2
105	92185A145	#6-32x0.3125_316_SocketHeadCapScrew	4
106	Sony_DPR-393_PCB&Heatsink	Sony camera parts	1
107	94102A103	M3-0.5x8mm_18-8_JIS_PhillipsPanHeadMachineScrew	4
108	98690A110	M3_316_FlatWasher	4
109	92153A416	M3_316_SplitLockWasher	4
110	100221414-47-A_ThermalPad_4mmx34x34	Thermal pad cut from DigikeyPN_1168-2209-ND	2
111	100221414-47-C_ThermalPad_4mmx18x72	Thermal pad cut from DigikeyPN_1168-2209-ND	1
112	1873N51	#4_FlameRetardantCableMount	4
113	91735A102	#4-40x0.250_316_PanHeadPhillipsMachineScrew	4
114	91864A007	#1-72x0.1875_AlloyBlackOxideSocketScrew	8
115	Amphenol_Straight_HDBNCJack_034-1024	MarkCustomPartTemplate	1
116	Amphenol_RA_HDBNCPlug_34-1118-12G	Amphenol right angle HDBNCPlug PN 34-1118-12G	1
117	Amphenol_BNC_31-70537-12G	Amphenol 12G BNC Connector PN 31-70537-12G	1
118	100221414-10-A_ChassisTopPlateAssembly	Chassis top plate assembly	1
119	100221414-09-B_ChassisTopPlate	MBARI chassis top plate B rev., has larger cap. cutout	1
120	Canon_ConnectorPanel	Canon lens part	1

Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS		DATE	
Inspector		1 PLACE DIM ±.016	2 PLACE DIM ±.003	3 PLACE DIM ±.005	ANGLE ±°	DRAWN MRC	01/20/2021		
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILET RADI .015-.003. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE.				ENGINEER	MBARI 7700 Sandholdt Rd. Moss Landing, CA 95039 PH: (831) 775-1700 c7ma@mbari.org		
Engineer						MARK R. CHAFFEY			
						(831) 775-1708			
NEXT ASSY Description	NEXT ASSY Number	PROJECT No.				902001			
		PROJECT Name				4K ROV CAMERA			
APPLICATION		DO NOT SCALE DRAWING				WEIGHT			

	
MBARI 7700 Sandholdt Rd. Moss Landing, CA 95039 PH: (831) 775-1700	
Monterey Bay Aquarium Research Institute	
4K CAMERA 4K SONY P50 CHASSIS	
SHEET C	DWG. NO. 100221414-01-A-ASM
SCALE	CAD FILE:
SHEET 2 OF 3	

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ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
121	ConnectorPanel	Canon lens part	1
122	HR25A-9R-20S	Canon lens part	3
123	HR25A-9R-20S.stp	Canon lens part	1
124	HOUSING.stp	Canon lens part	1
125	WASHER.stp	Canon lens part	1
126	NUT.stp	Canon lens part	1
127	94017A106	M2.0-0.4x6mm_18-8_CheeseHead	4
128	10022150703ra_4krovlenscontrol	MBARI PCB	1
129	100221414-56-A_2XActuatorAssembly	Lens 2x extender actuator assembly	1
130	100221414-52-B_2XSupportBracket	MBARI actuator support bracket, CNC aluminum version	1
131	100221414-53-A_2XSidePlate	MBARI actuator side plate	2
132	92510A422	#4x0.250x0.250OD_AlumUnthreadedSpacer	3
133	92510A692	#4x0.250_0.1875OD_AlumUnthreadedSpacer	1
134	PQ12_NEWSHAFT.stp	Actuonix_PQ12S-63-12-S actuator	1
135	PQ-12-20_10300.stp	actuator part	1
136	LIFT_10300_NS.stp	actuator part	1
137	100221414-54-A_ActuatorThrowArm	MBARI actuator throw arm	2
138	100221414-55-A_ActuatorLinkArm	MBARI actuator link arm	2
139	PQ12_MountBracket	Actuonix included part	1
140	93835A320	#4_PTFE_ShoulderWasher	4
141	95630A435	#4_PTFE_FlatWasher	4
142	92510A698	Aluminum Unthreaded Spacer	1
143	98164A065	#4-40x0.50_316_ButtonHeadSocketScrew	2
144	90101A004	#4-40_18-8_ThinLocknut	5
145	92949A113	#4-40x0.750_18-8_ButtonHeadScrew	3
146	92095A472	M3x0.5x18mm_18-8_ButtonHeadSocketScrew	1
147	92095A168	M3x0.5x14mm_18-8_ButtonHeadSocketScrew	1
148	94205A220	M3x0.5_316_NylokNut	2
149	94669A212	M3x2mmAlumUnthreadedSpacer	2
150	93904A300	#6-32_18-8_KeyLockTappingInsert	2
151	92185A145	#6-32x0.3125_316_SocketHeadCapScrew	2
152	91772A145	#6-32x0.3125_18-8_PanHeadScrew	1
153	91115A243	#6-32x0.5_18-8_HexThreadedStandoff	1
154	91720A142	#6-32x0.3125_316_HexHeadScrew	1
155	90730A007	#6-32_18-8_NarrowHexNut	1
156	94102A102	M3-0.5x6mm_18-8_JIS_PhilipsPanHeadMachineScrew	1
157	100221414-58-A_ModifiedPNVicar_30270	ModifiedFromVicarPN30270	1
158	92510A420	#4x0.125x0.250OD_AlumUnthreadedSpacer	9
159	92844A121	#4_316_FlatWasherNarrow	18
160	91108A110	#4_316_InternalToothLockWasher	27
161	91735A104	#4-40x0.375_316_PanHeadPhilipsMachineScrew	15
162	100221414-47-B_ThermalPad_4mmx42x24	Thermal pad cut from DigikeyPN_1168-2209-ND	1
163	VicarMicroModule	SEE ELECTRICAL DESIGN	1
164	VicarMicroRAM	SEE ELECTRICAL DESIGN	1
165	Vicar_18158_Standoff	Vicar_18158_Standoff	6
166	Vicar_18154_Standoff	Vicar_18154_Standoff	6
167	Vicar_20265_ThermatePad	Vicar_20265_ThermatePad	1
168	91735A102	#4-40x0.250_316_PanHeadPhilipsMachineScrew	12
169	100221414-16-A_FrontChassisPlateAssembly	Front chassis plate assembly	1
170	100221414-15-A_FrontChassisPlate	MBARI front chassis support plate	1
171	#6x.032_ShoulderWasher_DKPN_36-7682-ND	Digi-Key stock part 36-7682-ND	8
172	91950A045	#6_316_Flatwasher	8
173	90715A007	#6-32_316_Locknut	8
174	JFA2P_CONNECTOR	see electrical design	1
175	91500A306	#4-40x0.437_316_FlatHeadPhilipsScrew	1
176	90585A213	#6-32x0.437_316_FlatHeadSocketScrew	8
177	1873N51	#4_FlameRetardantCableMount	6
178	91735A102	#4-40x0.250_316_PanHeadPhilipsMachineScrew	6
179	100221414-24-B_OpticalBlockMountAssembly	Optical block mount assembly	1
180	100221414-25-A_OpticalBlockMount	MBARI optical block mount	1

COMPLETE BILL OF MATERIALS, continued

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
181	100221414-22-B_OpticalBlockFlange	MBARI optical mount flange, B rev, modified for out-of-tolerance OpticalBlockMount.	1
182	98625A650	0.250-80_0.50_18-8_BallEndAdjustmentScrew	3
183	91595A112	M3x12mm_AlloySteelDowelPin	1
184	92510A005	#2x0.156_AlumUnthreadedSpacer	1
185	Sony_LensConnector	Sony camera part	1
186	91735A007	#2-56x0.1875_316_PanHead	1
187	91735A013	#2-56x0.3125_316_PanHead_91735A013	1
188	92185A148	#6-32x0.50SocketHeadCapScrew	1
189	92185A110	#4-40x0.50_316_SocketHeadCapScrew	1
190	Sony_OpticalBlock	Sony camera part	1
191	92185A145	#6-32x0.3125_316_SocketHeadCapScrew	2
192	1873N51	#4_FlameRetardantCableMount	1
193	91735A102	#4-40x0.250_316_PanHeadPhilipsMachineScrew	1
194	91292A112	M3x0.5x8mm_18-8_SocketHeadCapScrew	4
195	92153A416	M3_316_SplitLockWasher	4
196	100221414-36-A_LeftSideChassisPanelAssembly	Left side chassis panel assembly	1
197	100221414-34-B_LeftSideChassisPanel	MBARI left side sheet metal panel	1
198	96439A080	#2-56 PEM Nut 18-8 SST	7
199	96439A340	#8-32_18-8_PEM_Nut	1
200	ThorLabs_FiberOrganizer_FSR1	Stock fiber organizer	1
201	90061A009	#8_NylonShoulderWasher	1
202	92185A194	#8-32x0.500_316_SocketHeadCapScrew	1
203	91950A046	#8_316_FlatWasher	1
204	92146A545	#8_18-8_SplitLockWasher	1
205	100221414-32-A_USB&ControlPanelAssembly	Control panel assembly	1
206	USB&ControlPanel	Sony camera part	1
207	DB9_Female_c-5-747905-5-y-3d	Sony camera part	1
208	100221414-35-A_LeftSideChassisSubPanel	MBARI left side chassis sub-panel	1
209	96439A080	#2-56 PEM Nut 18-8 SST	2
210	92510A697	#2x0.4375_0.1875Dia_AlumUnthreadedSpacer	2
211	91735A025	#2-56x0.625_316_PanHead	2
212	AcrylicRod_0.125Dia_8531K11_Modified	Modified stock acrylic rod	3
213	100221414-31-A_SubPanelSupport	MBARI sub-panel support	1
214	DB9_Male_sdep09p065t1xf_c	see electrical design	1
215	93655A090	M2.5-0.45x5mm_18-8_HexThreadedStandoff	2
216	91239A752	M2.5-0.45x3mm_BlackOxideButtonHeadSocketScrew	2
217	100221414-13-A_Ethernet&PowerPanel	MBARI Ethernet and power panel	1
218		Sheet	-
219	94674A490	#4-40_18-8_PEM_FlushNut	12
220	91253A104	#4-40x0.1875_FlatHeadBlackOxideScrew	3
221	91735A113	#4-40x0.750_316_RoundHeadScrew	1
222	94241A220	#4_316_SplitLockWasher	3
223	91735A109	#4-40x0.625_316_RoundHeadScrew	2
224	Sony_PowerInputXLRConnector	Sony camera part	1
225	PowerInputXLRConnector	Sony camera part	1
226	XLR_4Pin_MaleReceptacle_Sony	Sony camera part	1
227	90910A950	M2.6-0.45x5mm_18-8_ButtonHeadTorxMachineScrew	2
228	Sony_EthernetConnector	Sony camera part	1
229	92510A005	#2x0.156_AlumUnthreadedSpacer	6
230	92153A406	M2.0_316_SplitLockWasher	2
231	91239A706	M2.0-0.4x10mm_BlackOxideButtonHeadSocketScrew	2
232	4869A751	U-ChannelSiliconeGasket_Black	1
233	BNC_75Ohm_Jack_BulkheadMount_031-221-75RFX	Sony camera parts	1
234	Cubo_CWDM	SEE ELECTRICAL DRAWING	1
235	100221414-14-A_FiberBracket	MBARI fiber union bracket	1
236	BulkheadFiberUnion	SEE ELECTRICAL DRAWING	1
237	Focal-914-hde_Transceiver	Focal fiber optic multiplexer	1
238	91771A080	#2-56x0.4375_18-8_FlatHeadScrew	2
239	92185A081	#2-56x0.4375_316_AllenHeadSocketScrew	1
240	92147A410	#2_316_SplitLockWasher	1

Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS DATE		 Monterey Bay Aquarium Research Institute MBARI 7700 Sandholdt Rd. Moss Landing, CA 95039 PH: (831) 775-1700 PROJECT No. 902001 PROJECT Name 4K ROV CAMERA SHEET 3 OF 3			
Inspector		1 PLACE DIM ±.124	2 PLACE DIM ±.050	3 PLACE DIM ±.025	ANGLE ±°	DRAWN MRC	01/20/2021				
Shop Foreman		1. DIMENSIONS ARE IN INCHES. 2. DIMENSION LIMITS HELD AFTER PLATING. 3. REMOVE BURRS AND SHARP EDGES .015 MAX. 4. MACHINED FILED RADII .015-.030. 5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005 6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH MAX .012 INCHES FOR SINGLE SURFACE.				ENGINEER					
Engineer						MARK R. CHAFFEY					
NEXT ASSY Description	NEXT ASSY Number					(831) 775-1708	chm@mbari.org	4K CAMERA 4K SONY P50 CHASSIS			
APPLICATION		DO NOT SCALE DRAWING				WEIGHT		DWG. NO. 100221414-01-A-ASM		REV. A	

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