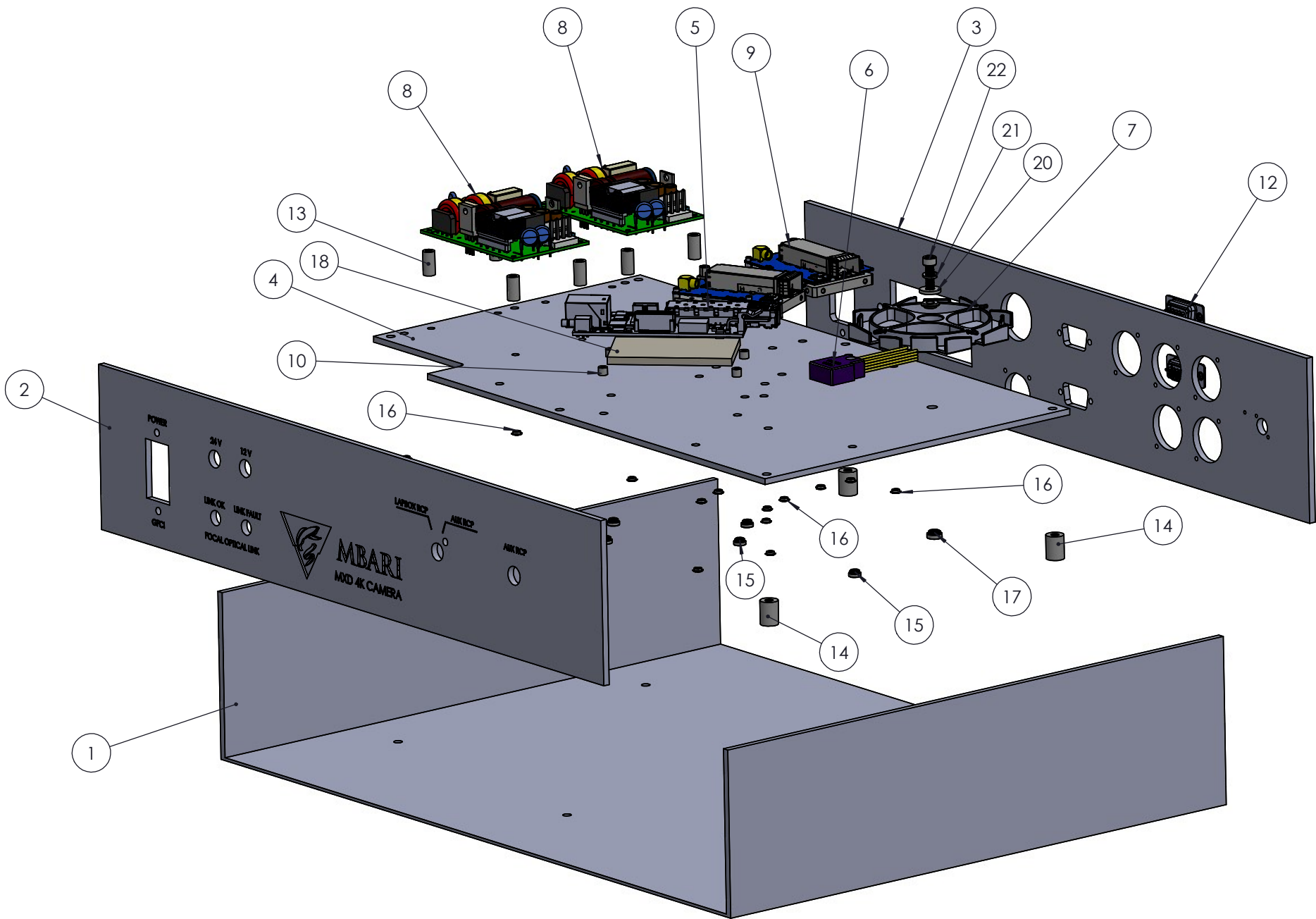


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REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
B	MODIFIED MOUNT PLATE FOR LARGER SWITCH	07/22/2021	
C	XX	XX/XX/202X	



ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	100221414-91-A-RackBoxFrame	Hammond RM3U rackbox frame	1
2	100221414-89-B-RackBoxFrontPanel	Rack box front panel	1
3	100221414-88-B-RackBoxRearPanel	Rack box rear panel	1
4	100221414-90-B-RackBoxMountPlate	Rack box internal mounting plate. B rev. has switch cutout.	1
5	Focal-914-hde_Transceiver	Focal fiber optic multiplexer	1
6	Cubo_CWDM	SEE ELECTRICAL DRAWING	1
7	ThorLabs_FiberOrganizer_FSR1	Stock fiber organizer	1
8	ECS25USXX	ECS25 series power supply	2
9	744-030-013-0A_Assy_Standalone-SFP_w_Heatsink_Rev01_20191223a	DSP&L media converter and heatsink kit	2
10	92510A005	#2x0.156_AlumUnthreadedSpacer	4
11	BulkheadFiberUnion	SEE ELECTRICAL DRAWING	1
12	DB9_Female_c-5-747905-5-y-3d	Sony camera part	2
13	93330A445	#6-32X0.50 Aluminum Threaded Standoff	8
14	91125A352	#8-32X0.50_18-8SST_ThreadedStandoff	6
15	96439A080	#2-56 PEM Nut 18-8 SST	5
16	94674A490	#4-40_18-8_PEM_FlushNut	18
17	96439A340	#8-32_18-8_PEM_Nut	1
18	100221414-47-D_ThermalPad_4mmx40x65	Thermal pad cut from DigikeyPN_1168-2209-ND	1
19	90061A009	#8_NylonShoulderWasher	1
20	91950A046		1
21	92146A545	#8 Split Lock Washer	1
22	92185A194	#8-32x0.500_316_SocketHeadCapScrew	1

NOTE 1. SOLID MODEL LOCATION:
\\atlas\ProjectLibrary\902001_4K_ROVCameraDevelopment\EngineeringDesignDocuments\MechanicalDesign\4K_CameraRackMountBox\100221414-87-A_4KCameraRackBoxAssembly.SLDASM

NOTE 2. NOT ALL HARDWARE AND COMPONENTS ARE SHOWN IN THIS ASSEMBLY. COMMON FASTNERS AND MOST ELECTRICAL COMPONENTS ARE NOT INCLUDED - SEE SCHEMATIC.

NOTE 3. DSP&L MEDIA CONVERTERS REQUIRE THERMAL PAD BENEATH PCB (INCLUDED IN HEATSINK KIT).

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Shop / Q.C.		BILL OF MATERIALS UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:		APPROVALS DATE	
Inspector		1 PLACE DIM ±.016	2 PLACE DIM ±.005	DRAWN MRC	04/05/2021
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	
Engineer				MARK R. CHAFFEY	
				(831) 775-1708 cmr@mbari.org	
NEXT ASSY Description	NEXT ASSY Number	PROJECT No.		PROJECT Name	
		902001		4K ROV CAMERA	
APPLICATION		DO NOT SCALE DRAWING		WEIGHT	
				SHEET 1 OF 1	



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4K CAMERA RACK BOX ASSEMBLY

DWG. NO. 100221414-87-B-DWG

REV. B