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BR indicator LED 3
High humidity Warn
YEL

BR Indicator LED 2
High Temp Warn
ORG

BR Indicator LED 1
Recording Active
RED

Pushbutton 1
REC start/stop

Pushbutton 2
Restart RxLive
with confirm

Pushbutton 3
Restart System
with confirm

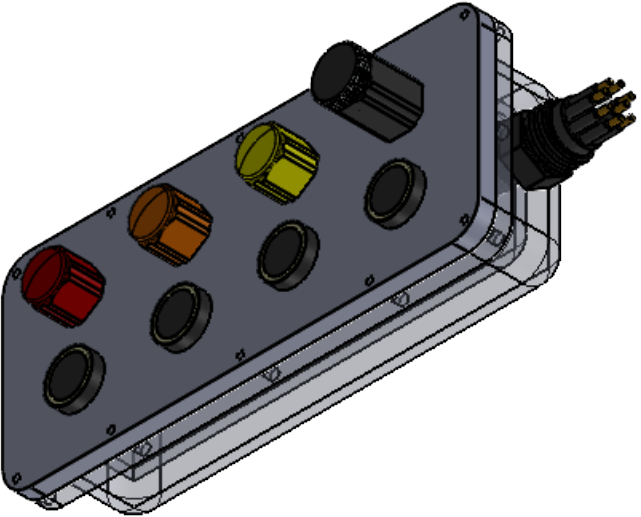
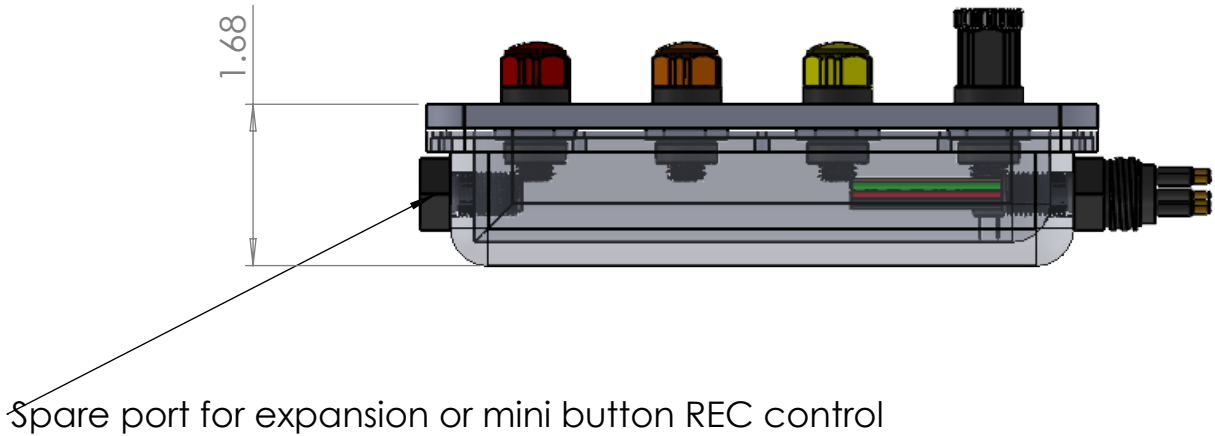
Pushbutton 4
Shutdown system
with confirm

BR On/OFF switch
Close to turn on
Open to turn off

Cable to Main Housing:

- USB 2.0 (controller)
- ON/OFF to power supply
- Spares (two pins)

- Details**
- Indicators and on/off switches are BR off-the-shelf
 - Pushbuttons are IP69k rated illuminated buttons (PBAR1AF2000A0G)
 - Moteino M0 controller runs keyboard interface and handles button events
 - Python script running on NUC sends state to moteino for recording, temp/hum warnings
 - Python script handles restart and shutdown commands with prompt on screen
 - Front plate is 6061-T6 hard anodized
 - Rear housing is resin 3D print (JLC3DP)
 - Estimated SWD of 100 m, TBD on buttons
 - Conformal coating on internals to simplify cleaning if leaks occur



FILE LOCATION:
\\atlas\ProjectLibrary\901506 DeepPIV\ME Drawings\SCUBA-EyeRIS\RaytrixControlConsole

BILL OF MATERIALS									
Shop / Q.C.		UNLESS OTHERWISE SPECIFIED TOLERANCES ARE:				APPROVALS	DATE	Monterey Bay Aquarium Research Institute	
Inspector		1 PLACE DIM ±1/16	2 PLACE DIM ±.02	3 PLACE DIM ±.005	ANGLES ±1°	DRAWN P. Roberts			
Shop Foreman		1. DIMENSIONS ARE IN INCHES				ENGINEER P. ROBERTS		MBARI 7700 Sandholdt RD. Moss Landing, CA 95039 PH: (831) 775-1700	
Engineer		2. DIMENSION LIMITS HELD AFTER PLATING.				CHECKED P. ROBERTS			
		3. REMOVE BURRS AND SHARP EDGES .015 MAX.				PROJECT NO.	901809	RaytrixControlConsole	
NEXT ASSY Description	NEXT ASSY Number	4. MACHINED FILLET RADII .0150-.030.				PROJECT	Biopsiration Lab		
		5. MACHINED DIAMETERS ON A COMMON CENTERLINE CONCENTRIC WITHIN .005						SIZE B	DWG. NO.
		6. PERPENDICULARITY & PARALLELISM OF MACHINED SURFACES .002 PER INCH. MAX .012 INCHES FOR SINGLE SURFACE.							REV.
Application		DO NOT SCALE DRAWING				WEIGHT		SCALE	SHEET 1 OF 1