

Ventana FO Can upgrade 902712

Year	Quarter	Task	Parts Cost
2027	1	<i>Design + PDR & CDR</i>	
	1	Finalize system block diagram level design	
	1	Purchase Ti for housing and endcaps	\$25,158
	1	Submit machining job for housing + endcaps	
	1	Order Scorpion/Seaconn connectors	\$20,400
	1	Order ISE Fiber harness x 2	\$16,000
	1	Order FO bulkhead connectors	\$15,000
	2	Hold Preliminary Design Review	
	2	Design backplane pcb	
	2	Design micro pcb	
	2	Design video switch pcb	
	3	Design video isolation pcb	
	3	Specify all fiber optic hardware	
	3 or 4	Pressure test housing (Pt. Hueneme)	\$4,000
	4	Hold Critical design review	
	4	Send all pcbs out for fabrication	\$5,600
	4	Order Vicor modules	\$4,000
		2027 Parts Total Cost	\$90,158

2028	1	<i>Begin Build</i>	
	1	Populate all pcbs	\$6,000
	1	Populate (wires only) connectors on endcap	
	1	Order Focal 907 stack	\$75,000
	1	Order CWDM for telemetry fiber	\$8,000
	1	Order Focal Mux DWDM	\$40,000
	1	Order new HDSI cameras to replace NTSC	\$16,500
	1	order FO cables and whips	\$15,000
	2	Test Individual pcbs	
	2	Integrate pcbs	
	3	System integration (bench)	
	3	Order any misc hardware	\$4,000
		2028 Parts Total Cost	\$164,500

2029	1	<i>Integration onto ROV Ventana</i>	
	1	Misc mounting hardware or replacement parts	\$20,000
	2	Install new FO Can onto Ventana	
	2 or 3	Non-science day at-sea testing of can	
	3 or 4	Ready for science	
		2029 Parts Total Cost	\$20,000

Total Project Cost**\$274,658**