

CHARA Array Adaptive Optics Equipment & Materials

Sub-system	Component	Source	Pricing Basis	Unit Cost	Adjusted Unit Cost	Per Telescope	Sub-total Cost with Tax	Year 1 Purchases	Year 2 Purchases	
Deformable Mirrors	CILAS 31 actuator	Cilas MONO31	Quote	\$74,667	\$76,907	\$76,907	\$498,357	\$0		
	CILAS spare	Cilas MONO31	Quote	\$56,000	\$57,680	\$57,680	\$62,294	\$0		
	D-A card	National Inst.	Catalog	\$2,100	\$2,163	\$2,163	\$15,876	\$0		
Dichroics	Substrate	Zygo	ROM	\$1,325	\$1,431	\$1,431	\$9,423	\$9,423		
	Coating 1	Reynard	Quote	\$2,250	\$2,318	\$2,318	\$15,261	\$15,261		
	Coating 2	ZC&R	Quote	\$1,321	\$1,361	\$1,361	\$0	\$0		
	Rail	MSC	Catalog	\$550	\$567	\$1,133	\$0	\$0		
	Block	MSC	Catalog	\$290	\$299	\$597	\$0	\$0		
	Leadscrew	MSC	Catalog	\$250	\$258	\$258	\$0	\$0		
	Motor		ROM	\$300	\$324	\$324	\$0	\$0		
	Controller		ROM	\$300	\$324	\$324	\$0	\$0		
	Encoder	MSC	Catalog	\$2,000	\$2,060	\$2,060	\$0	\$0		
	Actuator	Thorlabs	Catalog	\$700	\$721	\$2,163	\$0	\$0		
Controller	Thorlabs	Catalog	\$400	\$412	\$1,236	\$0	\$0			
Fast Wavefront Sensors	Detector	Andor	Quote	\$24,500	\$25,235	\$25,235	\$163,523	\$166,172		
	Detector spare	Andor	Quote	\$24,500	\$25,235	\$25,235	\$27,254	\$27,695		
	PCI Controller card	IXON	Quote	\$1,260	\$1,298	\$1,298	\$8,820	\$8,820		
	Camera	Stellarvue	Quote	\$4,279	\$4,407	\$4,407	\$29,023	\$29,023		
	Reimaging Eyepiece		ROM	\$200	\$216	\$216	\$1,422	\$1,422		
	Focus mech	Thorlabs	Catalog	\$3,678	\$3,788	\$3,788	\$24,946	\$24,946		
	Lenslet array		ROM	\$600	\$648	\$648	\$4,267	\$4,267		
	Computers		ROM	\$2,000	\$2,160	\$2,160	\$14,224	\$14,224		
	Acquisition	Mirror slide	Thorlabs NRT100	Catalog	\$2,047	\$2,108	\$4,217	\$27,768	\$27,768	
		Mirror mount	Newport VGM-2	Catalog	\$655	\$675	\$1,349	\$8,885	\$8,885	
		Mirror	Newport	Catalog	\$150	\$155	\$309	\$2,035	\$2,035	
		Production	Various	ROM	\$400	\$432	\$432	\$2,845	\$2,845	
	Stimulus Source	Fiber Positioner	Newport 561D-YZ	Catalog	\$1,009	\$1,039	\$1,039	\$6,844	\$6,844	
Mirror m1		Edmund	Catalog	\$1,200	\$1,236	\$1,236	\$8,139	\$8,139		
Actuator		Thorlabs ZST6	Catalog	\$655	\$675	\$1,349	\$8,885	\$8,885		
Controller			ROM	\$400	\$432	\$864	\$5,689	\$5,689		
Light Source		Ocean Optics P50-2	Catalog	\$1,050	\$1,082	\$1,082	\$7,122	\$7,122		
m1 stage		Thorlabs NRT150	Catalog	\$2,248	\$2,315	\$2,315	\$15,247	\$15,247		
Instrument Package	Table	Newport SG-36-2-ML	Catalog	\$2,570	\$2,647	\$2,647	\$17,431	\$17,431		
	Enclosure		ROM	\$200	\$216	\$216	\$1,422	\$1,422		
Telescope mods	to mirror #4		ROM	\$200	\$222	\$222	\$1,465		\$0	
	to mirror #5		ROM	\$200	\$222	\$222	\$1,465		\$0	
Slow WFS	Camera	Andor	Quote	\$24,150	\$25,621	\$25,621	\$28,119		\$0	
	Lenslet Array		ROM	\$4,000	\$4,450	\$4,450	\$4,883		\$4,883	
	Computer		ROM	\$1,700	\$1,891	\$1,891	\$2,075		\$2,075	
	Other opto/mech		ROM	\$4,000	\$4,450	\$4,450	\$4,883		\$4,883	
Static Correction	DM	Thorlabs	Catalog	\$7,500	\$7,725	\$7,725	\$50,869		\$52,395	
	OAP		ROM	\$1,500	\$1,620	\$1,620	\$10,668		\$10,988	
	Misc Optics/Mounts		Catalog	\$1,000	\$1,030	\$1,030	\$6,783		\$6,986	
Addl hardware	Fasteners & misc		ROM	\$100	\$108	\$108	\$711	\$754		
	Aluminum stock		ROM	\$500	\$540	\$540	\$3,556	\$3,772		
	PCB Parts & Fab		ROM				\$3,402	\$3,402		
	PCB Parts & Fab		ROM				\$5,597		\$0	
Total						Subtotal	\$421,495	\$82,211		
						Total Equipment Cost			\$503,706	