

Corners: 3x46" HDTV FOMs: Two 4x60" HDTV Spectra: 2x80" HDTV

Decision was to purchase 80" displays for now. However, we left space to upgrade to 90" displays in the future

LLO Control Room Wall Display Bill of Materials

Location	Component	Model	Vendor	Item Cost	Quantity
right side wall - stripcharts	46" HDTV display	LD-4655VX	Westinghouse	\$500	6
right side wall - stripcharts	Single-arm articulated wall mount	3607076	Atlantic	\$40	6
right side wall - stripcharts	Display computer	MacMini	Apple	\$700	3
right side wall - stripcharts	Computer wall mount	MacMini	h-squared	\$50	3
left, right corners - IFO cam	46" HDTV display	LD-4680	Westinghouse	\$500	6
left, right corners - IFO cam	Single-arm articulated wall mount	3607076	Atlantic	\$40	6
left, right-hand FOMs	60" HDTV	LC60LE650U	Sharp	\$1,100	8
left, right-hand FOMs	60" HDTV wall mount	60-614	Ergotron	\$70	8
central - spectra	80" HDTV	LC80LE650U	Sharp	\$2,850	2
center - spectra	80" HDTV wall mount	ST670	Peerless	\$95	2
top of wall	Time-zone clocks	TBD	TBD	TBD	3
top of wall	16-character GPS displays	TBD	TBD	TBD	1

LLO Control Room Wall Displays - MSR BOM

Component	Model	Vendor	Item Cost	Quantity
Display computer	MacMini	Apple	\$700	14
Computer rackmount	RackMac Mini	Sonnet	\$154	7
6' HDMI-DVI cables	AV22401-06-WHT	Belkin	\$11	14
4-port DVI extender	EXT-DVI-CAT5-4X	Gefen	(eLIGO)	5
100' Cat6 Cable		Stock on hand		28
4-port wall plate	03413	CablesToGo	\$1	16
wall plate - BNC keystones	03811	CablesToGo	\$3	28
wall plate - RJ-45 keystones	03677	CablesToGo	\$10	16
MiniDisplayPort-DVI adapter	MDP2DVIW	StarTech	\$13	14
DVI cable		Stock on hand		14
USB cable		Stock on hand		14
16-port DVI KVM	KV9516A	BlackBox	\$925	1
USB extender	EXT-USB-MINI2	Gefen	(eLIGO)	1
KVM video display		Stock on hand		1

LLO Control Room Wall Display - Install Notes

SIDE WALL

The 46" Westinghouse displays are no longer available - suggest substituting 48" HDTV (Sharp LC48LE551U)

The right side-wall has vertical pairs of displays controlled by a single computer (which is mounted on the wall behind the lower display). We have USB extenders run from each to the back of a control-room desk to connect to mouse, keyboard for control

CORNERS

The corner displays were mounted to the side walls, and then moved to a 45 degree angle in the corner using the articulated mounts.

The corner displays each have a video input (RG-59 from the Knox video switch), but only the top two on each side had an HDMI input from a computer in the MSR (carried on two Cat6 cables).

MAIN WALL

The display wall of 60 and 80" displays needed to be reinforced - see detail on Display Wall Detail document

Each display on the main wall has a video input (RG-59 from the Knox video switch), and an HDMI input from the MSR (carried on two Cat6 cables).

MSR

Rack 5 in the MSR has all the MacMinis, mounted in rack-mount holders. Each MacMini runs first output (MiniDisplayPort + USB) to the DVI KVM, second output (HDMI) -> HDMI-DVI -> DVI extender -> two Cat6 cables -> DVI extender -> DVI-HDMI -> TV

Two MacMini outputs are run in mirrored mode at HDMI resolution.

We used existing Gefen 4-port DVI extenders left over from eLIGO workstations at LLO. These are no longer available. Suggest getting HDMI or DVI extenders - Solution is TBD

- Could only use 3 ports on each extender - using all 4 caused all outputs to stop

Instead of a KVM, one could use a 'remote desktop' to each display computer - have not tested this.