

Control Van Rack

Our fiber -> SDI converters are only 3G. We use Yellobrik ORR 1802 Upgrade to ORX 1400? \$746



CWDM? Use existing?

RS232?

Lapbox/Control Software?
Lapbox is included in camera Cost

Blackmagic Video hub 20x20
12G-SDI
\$2659 (B&H) - Already have one



Blackmagic Design Ultrastudio 4k Mini
\$1,165 (B&H) - 1/2 1U



VARS



Do we need to upgrade MAC Minis?
Lonny: May need larger RAID drives Likely need to upgrade MACs to \$7k Macstudio or m4 Macmini (cheaper)
Brian: Mac mini M2 or M3 should be ok. May need to upgrade video raid

Thunderbolt

12G-SDI

Blackmagic Design Ultrastudio 4k Mini
\$1,165 (B&H) 1/2 1U



M3RS



To Video Raid
Do we need to upgrade?
How long can we Record for?

Thunderbolt

Thunderbolt

12G-SDI

12G-SDI

12G-SDI

Confidence Monitor (Nice to have)



12G-SDI-> HDMI 4k
\$605 (B&H)

HDMI 4k



Dedicated 4k monitor (Nice to have)
Or we have a dedicated 12G SDI monitor

4k Overlay (Nice to have)

ATEM 2M/E UHD 4K
\$4175



This does not have HDMI out. Requires another 12G SDI->HDMI +\$605

Do we want a 4k feed with overlay or is 1080P overlay good enough?

Our current ATEM 1 M/E 4K only Supports 6G-SDI*

Option A



Teranex Express
12G-SDI -> 3G SDI
\$1535 (B&H)

3G-SDI

Routed into video hub and Distributed to monitors via tilers

Option B



Teranex Mini
12G-SDI -> HDMI (1080p)
\$605 (B&H)

HDMI (1080p)

HDMI-> SDI converter
Back into video hub and Distributed to monitors

Do we use 4K telepresence?

ROV Umbilical

EPOD

CWDM? - Currently on 1310 nm
Use existing?



Our rattler is only 3G-SDI!

Cable?

- Fiber?
- Copper?
- Coax?

Bulkheads?

Telemetry?

New Camera



Sony ECB-ER9500 4K
25x optical zoom
2160p60 output 12G-SDI via fiber
->Option for h.265 streaming?

Other Required tools:

- Crimp tool: BH #BEBB3PHCT: \$333
- 12G-SDI Cable: 1000' BH #BE4855R1KBL: \$933
- 12G SDI BNC connectors (50): BH #BE4855RBU3B5: \$140

Total Cost without nice to haves (No spares):

Option A: **\$6017**
Option B: **\$5087**
(Excluding shipping & tax)