








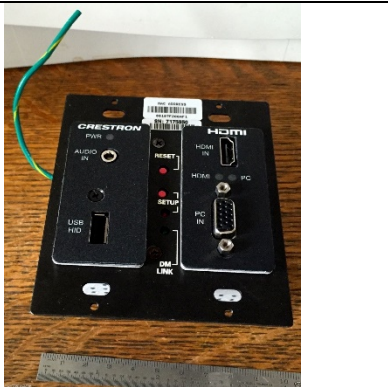

<p>vMix – 4K</p> <ul style="list-style-type: none"> • New Computer Motor is needed 		<p>\$700</p> <p>Replaces:</p> <ul style="list-style-type: none"> • Focus MX4 Video Switch • 2 Monitors • Pinnacle Studio
<p>Blackmagic DeckLink Quad 2 - Video capture adapter - PCIe x8</p> <ul style="list-style-type: none"> • New Computer Motor is needed 		<p>\$995</p> <p>B&H Photo AV Or Markertek</p> <p>Replaces:</p> <ul style="list-style-type: none"> • Dazzle 1ch input <p>2 card 5ch Option:</p> <ul style="list-style-type: none"> • Blackmagic DLDUO2 DeckLink Duo 2 \$495. • Blackmagic DeckLink Mini Monitor SD/HD PCI-E Card \$145. • \$640 to \$990
<p>Smart Videohub 2 40x40 Advanced 40 x 40 multi format SD, HD and Ultra HD SDI router with built in video monitoring, spin knob control, and 6G-SDI technology.</p> <p>Only because all video lines are with both rooms. The control room is the 2nd dairy user</p>		<p>\$2995. – 40x40 \$2995. - \$40x40</p> <p>Replaces :</p> <ul style="list-style-type: none"> • 95% of Patchbay • CR Video Router • CR RGB Router • 3 Scan Converters • 4 Video DA's <p>B&H Photo AV</p> <p>Sub Total: \$5990.</p>

<p>YaeKoo CCTV joystick Keyboard Controller LCD Display for PTZ Speed Dome Camera control</p>		<p>\$53</p> <p>Need only 1 Control cameras once we concert to RS485 from RS232</p> <p>Adds:</p> <ul style="list-style-type: none"> • Camera Controls <p>Amazon</p>
<p>Samsung Monitors</p> <ol style="list-style-type: none"> 1. CR Multiviewer <ul style="list-style-type: none"> o UN50MU6070F 2. CR Computer <ul style="list-style-type: none"> o LU32H850U MNXZA 31.5" 3. 2103 preview <ul style="list-style-type: none"> o SD300 21.5" 		<p>1. ~ \$450 2. ~ \$350 3. ~ \$160</p> <p>For control room Multiviewer and pre-view for recording lectures in either room (2241,2223,2103)</p> <p>Replaces</p> <ul style="list-style-type: none"> • All CR monitors <p>Adds</p> <ul style="list-style-type: none"> • more views • 1st step towards the "Smith Page" <p>Anywhere</p> <p>Sub Total: \$1160.</p>
<p>Blackmagic MultiView 16 Video Multiviewer for 16-Channels of SDI</p>	 <p>"Smith Page" will require a 2nd unit, which can be smaller.</p>	<p>\$1495</p> <p>Replaces</p> <ul style="list-style-type: none"> • All CR monitors <p>Adds</p> <ul style="list-style-type: none"> • more views • 1st step towards the "Smith Page" <p>B&H Photo AV</p> <p>Total: \$10393.</p>

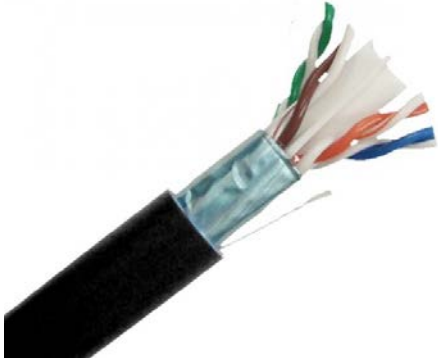
Crestron Digital Media(DM) Items to "Update"
 Rooms 2241, 2223, 2237, and 2103 to match room 2103 HD capabilities. Plus expanding the video bridge to digitally (HD) record any lecture within these rooms or bridge the rooms for overflow.
 {Most everything is now on eBay (used and new)}

<p>Crestron DM-MD32X32</p>		<p>MSRP - \$18400 A+ Price - \$11500</p> <p>eBay \$3500 - \$7000</p> <p>Need 1 unit</p> <p>~ \$5500</p>
<p>Crestron Pro3 Series Advanced Control Processor</p> <p>May need additional com port card(s)</p>		<p>MSRP - \$5300. A+ Price - \$3300.</p> <p>eBay \$200 to \$5600</p> <p>Need 1 unit</p> <p>\$2500</p>
<p>DMC-C-DSP DigitalMedia 8G+ Input Card</p> <p>Need:</p> <ul style="list-style-type: none"> • 8 for 2241 • 5 for 2223 • 2 for 2103 • 2 for CR 		<p>Discontinued</p> <p>Replacement DMC-4K-C-DSP-HDCP2 (\$815) A+</p> <p>eBay \$75 - \$150 {125}</p> <p>Need 17</p> <p>Sub Total: \$1500 To \$2300.</p>

<p>Blackmagic Design Mini Converter HDMI to SDI 4K</p>		<p>\$265 Each up to \$300 Need 10 to replace and add Tie-lines Full Compass Sub Total: \$3000</p>
<p>Need:</p> <ul style="list-style-type: none"> 4 for 2241 4 for 2103 3 for 2223 		
<p>DMC-SDI Input Card</p>		<p>MSRP - \$1200 A+ Price - \$750 eBay ~\$150</p>
<p>Need:</p> <ul style="list-style-type: none"> 8 for 2241 4 for 2223 8 for 2103 		
<p>DMCO-33 output Card Or Equivalent</p>		<p>Discontinued eBay ~\$200 Need 4 card Sub Total: \$800</p>
<p>Need:</p> <ul style="list-style-type: none"> 1 for 2241 1 for 2223 2 for Smithpage 		
<p>DMCO-55 Digital Media Output Card Or Equivalent</p>		<p>Discontinued eBay ~\$400. - \$500. Need 2 Sub Total: \$1000</p>
<p>Need:</p> <ul style="list-style-type: none"> 1 for 2241 1 for 2237 		

<p>Steaming Card DMCO-77 (Dual output) Or Equivalent H.264</p> <p>Maybe difficult to obtain.</p> <p>Replaced with DMC-STRO</p>		<p>This is the replacement</p>	<p>Discontinued (77)</p>
<p>Need 2 ports each:</p> <ul style="list-style-type: none"> • for 2241 • for 2223 	<p>Looking into other options</p>		<p>Need 4 (stro) or 2 (DMCO-77)</p> <p>Sub Total: \$1600 To \$2000.</p>
<p>Wall Plate DM Transmitter 200 DM-TX-200-2G HDMI</p>			<p>Discontinued</p>
<p>Need:</p> <ul style="list-style-type: none"> • 5 for 2241 • 3 for 2223 • 1 for 2103 • 1 for 2237 CH 		<p>eBay \$40 - \$200</p>	<p>Need ~10</p>
<p>DM-TX-201-C</p>			<p>MSRP - \$1300 A+ Price - \$813</p>
<p>Need:</p> <ul style="list-style-type: none"> • 3 for 2241 • 2 for 2223 • 1 for 2103 		<p>eBay \$40 - \$300</p>	<p>Need 6</p>
			<p>Sub Total: \$1200</p>

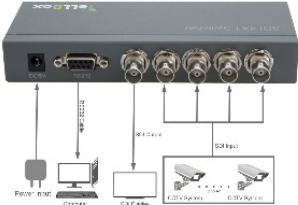
<p>Touch Screens for 2241, 2237, & 2223</p> <p>Plus: Cable V-CBL-S6-B Is needed</p> <p>24Vdc, 2A Power Supplies maybe needed.</p> <p>2223 doesn't need video preview. TSW-1050 would work or perhaps one of our older units. Up to programmer...</p>		<p>Discontinued</p> <p>eBay \$160 - \$480</p> <p>Need 3</p> <ul style="list-style-type: none"> 1. 2241 2. 2237 3. 2223 <p>Sub Total: \$1500</p>
<p>TPMC-V-IMCW</p> <p>Power supplies maybe needed</p>		<p>Discontinued</p> <p>eBay \$15 - \$100</p> <p>Need 3</p> <p>Sub Total: \$150</p>
<p>DM-RMC-SCALER-C</p>		<p>MSRP \$1400 A+ Price 875</p> <p>eBay \$30 - \$100</p>
<p>Need 5</p> <ul style="list-style-type: none"> • 3 in 2241 • 2 in 2223 		<p>Need 5</p> <ul style="list-style-type: none"> • Projectors <p>Sub Total: \$500</p>

<p>1000' of CAT 6a shielded</p> <p>Plus: Tips are needed</p>		\$160 -\$280 each
		At least 9 runs to rm 2241 (~1600')
		At least 6 runs to 2223 (~300')
		Need around 1900'
		Sub Total: ~\$400

		Total: \$23,850.
		Grand Total: \$33,243.

Rough Cast for 2241	Rough Cast for control room	Update 2103 to SDI	Upgrade of 2223 plus Extra functions for all rooms.
\$17,645.	\$3,258.	\$5,995.	\$6,345.

Misc. Other Items:

<p>VeLLBox SDI Switcher 4x1, 4 In 1 Out SDI Switcher, Support Resolution up to 1080p</p>		\$119. Each
		Need 2 – One for 2241 outputs and one for 2103 Outputs
		Amazon
		Need only 1 Control cameras once we concert to RS485 from RS232
		Optional, Not sure if it's needed yet.

<p>Blackmagic Design CONVMCAUDS Audio to SDI Mini Converter</p>		~ 195 each
		B&H Photo AV
		Need Unknown Maybe 2 or 4

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