

Media Control Systems
Master Product Price List

Last Update January 27, 2021

Model	Description	Price
Tightrope Cablecast Products		
Cablecast VOD Servers		
CBL-SVR450-VOD-Lite	Cablecast Pro Lite with VOD, 256 OS Drive, 8TB Content Drive <i>(1RU Chassis, Webcentric head end automation system and Cablecast VOD. Streams H.264 HLS Adaptive bitrate VOD to mobile devices, OTT and desktops, 8TB Content drive and 256GB OS drive. Includes 3 year hardware warranty.)</i>	\$5,200.00
CBL-SVR450-VOD-10	Cablecast Pro with VOD, 256 OS Drive, 10TB RAID5 Content Drive <i>(3RU Chassis, Webcentric head end automation system and Cablecast CG & VOD. Streams H.264 HLS Adaptive bitrate VOD to mobile devices, OTT and desktops, 10TB RAID5 Content drive and 256GB OS drive. Includes 3 year hardware warranty.)</i>	\$8,800.00
Content Storage Expansion for VOD and VIO Servers		
CBL-STRUPG-20TB	10TB Storage Upgrade for Cablecast VIO and VOD Servers <i>(10TB Storage Upgrade for Cablecast VIO and VOD Servers to Increase content storage to 20TB. Must be ordered at the time of original purchase.)</i>	\$1,400.00
CBL-STRUPG-40TB	30TB Storage Upgrade for Cablecast VIO and VOD Servers <i>(30TB Storage Upgrade for Cablecast VIO and VOD Servers to Increase content storage to 40TB. Must be ordered at the time of original purchase.)</i>	\$3,400.00
Cablecast VIO Servers		
CBL-VIOLITE-600	Tightrope Cablecast VIO Lite, 2 Channel, 8TB Storage Drive <i>(1RU Chassis, 2 Channel configurable 1x1, 0x2, SD/HD-SDI encoding/decoding, multi-format server with 8TB of storage in a 1RU chassis. SD or HD SDI with embedded audio, Inputs in RTP, RTMP, and HLS streams. Includes Cablecast Automation, Video and CG Server Software. Cablecast CG Player Lic. is Optional. Includes graphics, crawl, logo, and text on output. 3 year hardware warranty.)</i>	\$8,995.00
CBL-VIO2-600	Tightrope Cablecast VIO-2, 2 Channel, 10TB RAID5 Storage <i>(3RU Chassis, 2 Channel configurable 1x1, 0x2, SD/HD-SDI encoding/decoding, multi-format server with 10TB RAID5 of storage in a 1RU chassis. SD or HD SDI with embedded audio, Inputs in RTP, RTMP, and HLS streams. Includes Cablecast Automation, Video and CG Server Software. Cablecast CG Player Lic. is Optional. Includes graphics, crawl, logo, and text on output. 3 year hardware warranty.)</i>	\$17,500.00
CBL-VIO4-600	Tightrope Cablecast VIO-4, 4 Channel, 10TB RAID5 Storage <i>(3RU Chassis, 4 Channel configurable 0x4, 1x3, 2x2, SD/HD-SDI encoding/decoding, multi-format server with 10TB RAID5 of storage in a 1RU chassis. SD or HD SDI with embedded audio, Inputs in RTP, RTMP, and HLS streams. Includes Cablecast Automation, Video and CG Server Software. Cablecast CG Player Lic. is Optional. Includes graphics, crawl, logo, and text on output. 3 year hardware warranty. Dual PS)</i>	\$23,000.00
CBL-VIO4-Plus-600	Tightrope Cablecast VIO-4 Plus, 6 Port, 4Ch, 10TB RAID5 Storage <i>(3RU Chassis, 4 Channel configurable 0x4, 1x3, 2x2, SD/HD-SDI encoding/decoding, multi-format server with 10TB RAID5 of storage in a 1RU chassis. SD or HD SDI with embedded audio, Inputs in RTP, RTMP, and HLS streams. Includes Cablecast Automation, Video and CG Server Software. Cablecast CG Player Lic. is Optional. Includes graphics, crawl, logo, and text on output. 3 year hardware warranty. Dual PS)</i>	\$28,750.00

Cablecast VIOSTREAM IP Servers

CBL-VIOSTREAM-LITE	<p>Cablecast VIOSTREAM Server, 8TB Storage <i>(Web-centric VOD and Live Streaming Solution, 1RU Chassis, Streams H.264 HLS adaptive bitrate to mobile devices, OTT and desktops. Pulls in and records NDI, RTP, RTMP, RTSP and HLS streams as well as SDI. Includes Cablecast Automation, Scheduling and CG Software. Includes graphics crawl, bug, and bug text on streaming output. No SDI Output. Includes 8TB Content drive and 256GB OS drive. Includes 3-year hardware warranty.</i></p>	\$8,700.00
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CBL-VIOSTREAM-PRO	<p>Cablecast VIOSTREAM Server, 10TB RAID Storage <i>(Web-centric VOD and Live Streaming Solution, 3RU Chassis, Streams H.264 HLS adaptive bitrate to mobile devices, OTT and desktops. Pulls in and records NDI, RTP, RTMP, RTSP and HLS streams as well as SDI. Includes Cablecast Automation, Scheduling and CG Software. Includes graphics crawl, bug, and bug text on streaming output. No SDI Output. Includes 10TB Content RAID drive and 256GB OS drive. Includes 3-year hardware warranty.</i></p>	\$12,000.00
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Cablecast CG Players and Streaming Server

CBL-VIOLITE-CG-SVR	<p>Cablecast VIO CG Server / Bulletin Board Player, 2 SDI Channels <i>(1RU, 2 SDI Video Outputs, Reference Input. Accelerated Graphics. Requires Cablecast Server Software and CG Player Software License)</i></p>	\$2,895.00
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CBL-LIVE-350	<p>Tightrope Live Streaming Server, 1 Channel <i>(1RU, H.264 HLS adaptive bit rate streaming server, for live streaming integrated into Cablecast's public web interface. Scales up to 1080p. Stream is controlled from the Cablecast and may be disabled on a per show basis. 3 year hardware warranty.)</i></p>	\$2,895.00
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TRMS-CABLECAST-PLR	<p>Cablecast Signage Player (Purchased Directly from Seneca) <i>(Windows 10 Professional Digital Signage Player manufactured by Seneca for use with a Cablecast VIO Video Server. Small form factor chassis with 250GB SSD, 4GB RAM and HDMI output. One year factory warranty. Requires Cablecast Digital Signage Player License. Includes VESA Mount.</i></p>	\$675.00
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CBL-SIGNAGE-LIC	<p>Cablecast Signage Player License <i>(Cablecast CG digital signage player software for installation in a Seneca Media Player, For use with a Cablecast VIO Videoserver. Maximum of 5 Players per Server.</i></p>	\$300.00
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CBL-CHD-BASIC	<p>Basic Cablecast CG Channel Design <i>(Includes a channel layout with pre-made zones, a custom branded background, starter templates, and icons delivered in a single importable file. The Cablecast Creative Team determines the channel layout based upon expertise and the end users needs. Includes up to 3 mockup revisions.)</i></p>	\$2,500.00
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CBL-CHD-CUST	<p>Custom Cablecast CG Channel Design <i>(Includes a channel layout built from the ground up, according to clients end goals. Includes in-dept consultation with client and following the organizations style guides. Includes up to 3 mockup revisions.)</i></p>	\$4,500.00
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Cablecast Software Licenses

CBL-CGPLAYER-LIC	<p>Cablecast CG Player Software License <i>Cablecast CG Bulletin Board Player software for Cablecast VIO video servers. Bulletin board features and native integration with the Cablecast schedule for display of "Airs Again On", "Coming up Next", and Cablecast Program Guide bulletins, updated dynamically throughout the day.</i></p>	\$1,400.00
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CBL-CGSERVER-LIC	<p>Cablecast CG Server Software License <i>Cablecast CG Bulletin Board Server software for Cablecast VIO video servers. Bulletin board features and native integration with the Cablecast schedule for display of "Airs Again On", "Coming up Next", and Cablecast Program Guide bulletins, updated dynamically throughout the day.</i></p>	\$1,600.00
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CBL-CABLECAST -LIC	Cablecast Automation and Videoserver Software License <i>Cablecast automation and videoserver software for Cablecast VIO CG servers. Enables the upgrade of a VIO CG only videoserver to a full Cablecast VIO Lite 600 Videoserver. 2 Channel configurable 1x1 or 0x2 SD/HD SDI encode/decode, selectable SD or HD SDI with embedded audio. Inputs RTP, RTMP, and HLS Streams.</i>	\$6,100.00
CBL-WIN10- 2019-LIC	Upgrade a Cablecast ProVOD to Windows 10.	\$300.00
Cablecast RTMP Delivery Service		
SCW-LIVE-100	Screenweave Live RTMP Delivery Service <i>Annual RTMP stream delivery of up to 100GB/month. Equals 40 hours per month at 5-Mbps. Approximately 160 hours of Zoom meetings. Cloud based RTMP stream delivery to video servers or Carousel bulletin boards.</i>	\$1,200.00
SCW-LIVE-10GB	Screenweave Live RTMP, Additional 10GB/month	\$4.00
SCW-LIVE-TRIAL	Screenweave Live RTMP Delivery Service Trial <i>Three month trial, RTMP stream delivery of up to 100GB/month. Equals 40 hours per month at 5-Mbps.</i>	\$360.00
Cablecast Internet Hosting Services		
CBL-REFLECT -Live	Tightrope Cablecast Reflect Live Streaming Annual Hosting Service <i>(Three Channels of LIVE streaming hosting service, provides 7-24 unlimited streaming service, TRMS streaming server is required, One Year Period)</i>	\$1,200.00
CBL-REFLECT -VOD	Tightrope Cablecast Reflect VOD Annual Hosting Service <i>(One Site of VOD streaming hosting service, provides 7-24 unlimited streaming service, TRMS streaming server is required, One Year Period)</i>	\$1,200.00
CBL-Reflect- BND	Tightrope Cablecast Reflect VOD & Streaming Hosting Service <i>(One Site of VOD & Streaming hosting service, provides 7-24 unlimited streaming service, TRMS VOD & Streaming Servers are required, One Year Period)</i>	\$2,200.00
CBL- SCREENWEAVE -APP	Customized Branded Screenweave Application, OTT Channel ID <i>(One time development, administrative, and creative fee to integrate user supplied artwork and logos into a customized OTT application for Apple TV and Roku.) Customer is responsible for signing up for Apple TV and Roku developer accounts.</i>	\$1,500.00
CBL- SCREENWEAVE -REN	Branded Screenweave App Renewal <i>(Ongoing subscription fee to maintain the branded Screenweave channel. Requires a Cablecast Reflect subscription.)</i>	\$500.00
CBL-IPINPUT-LIC	Cablecast StreamSource for Flex Servers <i>(Provides IP input into the Flex4 Videoservers, RTP)</i>	\$1,500.00
Spare Hard Drives and Accessories		
CBL-STRG- DRV-8TB	Tightrope 8TB Spare Video Hard Drive for Flex32 and VIO Servers	\$750.00
CBL-STRG- DRV-4TB	Tightrope 4TB Spare Video Hard Drive for VIO and Flex Servers	\$500.00
CBL-STRG- DRV-2TB	Tightrope 2TB Spare Video Hard Drive for VIO and Flex Servers	\$300.00

CBL-STRG- DRV-SYS	Tightrope Loose 500G Spare Video Hard Drive for System OS	\$150.00
CBL-STRG- SSD-SYS	Tightrope Loose 250G SSD Spare Video Hard Drive for System OS	\$150.00
CBL- 232422-8PT	USB to 8-Port RS-232/422 Module <i>(Provides control for 8 serial controlled devices, preset for 232 or 422)</i>	\$550.00
Tightrope Carousel Servers and Players		
CAR-LIC- PLAYER	Carousel Digital Signage Player License	\$500.00
XT1144	BrightSign Digital Signage Small Form, Live Video In <i>(Small-form solid-state chassis, HDMI Live Video Input, HDMI and VGA outputs, 1 player license, 16 Gig SDHC card. Requires Player Software License)</i>	\$675.00
XD233	BrightSign Digital Signage Player Small Form, Solid State <i>(Small-form solid-state chassis, HDMI and VGA outputs, No RS232 Display Control, 1 player license, 16 Gig SDHC card. Requires Player Software License)</i>	\$475.00
WA103NA WIFI	BrightSign Wireless Networking Module <i>(Wireless network module, 802.11/a/b/g/n protocols.)</i>	\$50.00
CAR-QUICKSTART	Carousel Basic Channel Design, Academy Courses, and Installation Assistance	\$3,250.00
CAR-CHD BASIC	Tightrope Carousel Basic Channel Design <i>(Basic Channel Design; includes a channel layout with pre-made zones, a custom branded background, in accordance with an organization's style guidelines, starter templates, and icons delivered in a single importable file. Includes 3 mockup revisions.)</i>	\$2,500.00
CAR-CHD-CUST	Custom Carousel Channel Design <i>(Includes a channel layout built from the ground up, according to clients end goals. Includes in-dept consultation with client and following the organizations style guides. Includes up to 3 mockup revisions.)</i>	\$4,500.00
Cablecast Software Update and Extended Hardware Warranty		
CBL-SAS-CH-1YR	Cablecast Software Assurance <i>(Annual software maintenance contract per I/O (Input/Output) port, covers all the software upgrades including major releases at one facility.)</i>	\$400.00
CBL-SAS-CH-1YR LAPSED	Cablecast Software Assurance, Lapsed <i>(Annual software maintenance contract per I/O, for those in past due standing after a 90 day grace period.)</i>	\$600.00
CBL-SAS-CG-1YR	Cablecast Software Assurance for Cablecast-CG only systems <i>(Annual software maintenance contract per I/O (Input/Output) port, covers all the software upgrades including major releases at one facility. For systems with Cablecast CG Bulletin boards only.)</i>	\$300.00
CBL-SAS-CG-1YR LAPSED	Cablecast Software Assurance, Cablecast-CG only systems, Lapsed <i>(Annual software maintenance contract per I/O (Input/Output) port, covers all the software upgrades including major releases at one facility. For systems with Cablecast CG Bulletin boards only. For those in past due standing after a 90 day grace period.)</i>	\$400.00

CBL-VIOLITE-HA	Annual Hardware Assurance contract for the CBL-VIOLITE-600 <i>(1st 3-years are included with server purchase, price per year for years 4 & 5)</i>	\$900.00
CBL-VIO2-HA	Annual Hardware Assurance contract for the CBL-VIO2-600 <i>(1st 3-years are included with server purchase, price per year for years 4 & 5)</i>	\$1,600.00
CBL-VIO4-HA	Annual Hardware Assurance contract for the CBL-VIO4-600 <i>(1st 3-years are included with server purchase, price per year for years 4 & 5)</i>	\$2,500.00
CBL-VIO4PLUS-HA	Annual Hardware Assurance contract for the CBL-VIO4PLUS-600 <i>(1st 3-years are included with server purchase, price per year for years 4 & 5)</i>	\$2,850.00
CBL-SVR450-VOD-Lite-HA	Annual Hardware Assurance contract for the CBL-SVR400-VOD-Lite <i>(1st 3-years are included with server purchase, price per year for years 4 & 5)</i>	\$520.00
CBL-SVR450-VOD-10-HA	Annual Hardware Assurance contract for the CBL-PROVOD-10 <i>(1st 3-years are included with server purchase, price per year for years 4 & 5)</i>	\$880.00
CBL-LIVE-350-HA	Annual Hardware Assurance contract for the CBL-LIVE <i>(1st 3-years are included with server purchase, price per year for years 4 & 5)</i>	\$280.00
CBL-VIOLITE-CG-HA	Annual Hardware Assurance contract for the CBL-VIOLITE-600 CG <i>(1st 3-years are included with server purchase, price per year for years 4 & 5)</i>	\$600.00
CBL-VIOSTREAM-LITE-HA	Annual Hardware Assurance contract for the CBL-VIOSTREAM-LITE <i>(1st 3-years are included with server purchase, price per year for years 4 & 5)</i>	\$870.00
CBL-VIOSTREAM-PRO-HA	Annual Hardware Assurance contract for the CBL-VIOSTREAM-PRO <i>(1st 3-years are included with server purchase, price per year for years 4 & 5)</i>	\$1,200.00
MCS Spyglass Pro TV Channel Protection Systems		
SPY-Pro-1 HDSDI	One Channel Spyglass HD/SD-SDI with Embedded Audio <i>(Detect Motion Loss, Sync Loss and Audio Loss, with A/B Bypass Switch) (Spy-1, D to A, SDI Relays, all in 1RU Chassis) Includes: email, web status and control, and logging)</i>	\$3,200.00
SPY-Pro-1D-HDSDI-EA	Dual One Channel Spyglass HD/SD-SDI with Embedded Audio <i>(1RU, Detect Motion Loss, Sync Loss and Audio Loss, with A/B SDI Bypass Switch, monitors primary and secondary inputs from primary and secondary videosever output, one Spyglass Pro Dual is required for each videosever output. Includes: email, web status and control, and logging)</i>	\$3,500.00
Media Archive Storage Systems		
Synology Storage Systems		
RS815-44N	Synology 12TB RackStation Rackmount Network Attached Storage <i>(1RU Rackmount 12TB raw storage, 4-3TB RAID5, NAS Hard Drives, DSM Software, Cross Platform File sharing, Dual LAN, Dual Core CPU, expandable to 32TB, Rack Slide Rails Included)</i>	\$1,950.00
RS815-RP-24	Synology 24TB RackStation Network Storage, 2 x Power Supplies <i>(1RU Rackmount RS815-RP, 4 x 6TB Hard Drives, 24TB Raw Storage, RAID5, DSM Software, Cross Platform File Sharing, Rack Slide Rail Included, Quad LAN, Quad Core CPU, expandable to 48TB with RX410)</i>	\$3,750.00

RS2416RP-24	Synology 24TB RackStation Network Attached Storage, expandable (2RU Rackmount 24TB raw storage, 6-4TB RAID6, NAS Hard Drives, add up to 12 Hard Drives, Redundant Power Supplies, DSM Software, Cross Platform File Sharing, 4 LAN Ports, Quad Core CPU, iSCSI, Rack Slide Rails Included)	\$4,995.00
RS2416RP-36	Synology 36TB RackStation Network Attached Storage (2RU Rackmount 36TB raw storage, 6-6TB RAID6, NAS Hard Drives, Redundant Power Supplies, DSM Software, Cross Platform File Sharing, 4 LAN Ports, Quad Core CPU, iSCSI, Rack Slide Rails Included)	\$5,850.00
RS2416RP-72	Synology 72TB RackStation Network Attached Storage (2RU Rackmount RS2416RP, 12 x 6TB HD, 72TB raw storage, RAID 5 or 6, 7200 RPM HD, Redundant Power Supplies, DSM Software, Cross Platform File Sharing, 4 LAN Ports, Quad Core CPU, iSCSI, expandable to 144TB, 2G RAM) Added 4 Gig of RAM for total of 6 Gig, Rack Slide Rails Included)	\$9,720.00
RS2818RP-160	Synology 160TB RackStation Network Attached Storage (3RU Rackmount RS2818RP, 16 x 10TB HD, 160TB raw storage, RAID 5 or 6, 7200 RPM HD, Redundant Power Supplies, DSM Software, Cross Platform File Sharing, 4 LAN Ports, Quad Core CPU, iSCSI, expandable to 144TB, 12G RAM) Added 8 Gig of RAM for total of 12 Gig, Rack Slide Rails Included)	\$14,500.00
RKS1314	Synology Rack Mounting Slide Rail Kit (Slide Rails for RS814 and RS2414)	\$145.00
CyberPower UPS Systems		
OL1500RTXL2U	CyberPower 1500VA 1350Watt Online UPS (2RU Pure Sine Wave UPS, 1500VA/1350 W, 9 minutes 1/2 Load, 3 minutes full load, expandable to 143min / 79min, 8 Outlets, USB, Optional IP with RMCARD302, external batteries BP36V60ART2U, +1=40min/16min, +2=73min/31min, +5 max, 10ft cord, plug NEMA 5-15P, outlet NEMA 5-15R x8)	\$1,010.00
BP36V60ART2U	CyberPower External Batteries and Chassis for OL1500RTXL2U (2RU Chassis, 6 batteries, for OL1500RTXL2U, expandable to 5 units,	\$750.00
OL2200RTXL2U	CyberPower 2200VA 1800Watt Online UPS (2RU Pure Sine Wave UPS, 2200VA/1800 W, 18 minutes 1/2 Load, 6 minutes full load, expandable to 293min / 122min, 7 Outlets, USB, Optional IP with RMCARD302, expand backup time to with BP72V60ART2U, +1=71min/30min, +2=122min/58min, 10ft cord, plug NEMA 5-20P, outlet NEMA 5-20R x6, L5-20R x1)	\$1,470.00
BP72V60ART2U	CyberPower External Batteries and Chassis for OL2200/3000RTXL2U (2RU Chassis, 12 batteries, for OL2200RTXL2U and OL3000RTXL2U, +5 max)	\$950.00
OL3000RTXL2U	CyberPower 3000VA 2700Watt Online UPS (2RU Pure Sine Wave UPS, 3000VA/2700 W, 9 minutes 1/2 Load, 3 minutes full load, expandable to 164min / 76min, 7 Outlets, USB, Optional IP with RMCARD302, expand backup time to with BP72V60ART2U, +1=41min/17min, +2=78min/34min, 10ft cord, Plug NEMA L5-30P, Outlet NEMA 5-20R x6, L5-30R x1)	\$1,880.00
RMCARD302	CyberPower Plugin Ethernet Port (Plugin card for all OLxxxxRTXL2U Online UPS Systems)	\$230.00
Routing Switchers		
BMD-VHUB-SMART6G1212	Black Magic Smart Video Hub 12x12 SDI Routing Switcher (1RU Panel, 12-Inputs, 12-Outputs, IP control and front panel keyboard)	\$1,395.00

BMD-VHUB-SMART6G1212 CleanSwitch	Black Magic Smart Videohub CleanSwitch 12x12 SDI Routing Switcher <i>(1RU Panel, 12-Inputs, 12-Outputs, IP control and front panel keyboard)</i>	\$1,495.00
BMD-VHUB-SMART6G2020	Black Magic Smart Video Hub 20x20 SDI Routing Switcher <i>(1RU Panel, 20-Inputs, 20-Outputs, IP control and front panel keyboard)</i>	\$1,995.00
BMD-VHUB-VCPT	Blackmagic Compact Video Hub 40x40 SDI Routing Switcher <i>(40x40 3G-SDI, 2RU Routing Switcher with ethernet control)</i>	\$2,995.00
AV Monitoring Equipment		
LCD1U19-17-8KVM-CO	17" LCD Monitor, Keyboard Drawer and 8 Port KVM <i>(1RU Rack Mount folding LCD Monitor, Rackmount Keyboard Tray, and Mouse, Includes 8 port KVM with 8 cables, combo USB/PS2).</i>	\$1,495.00
LCD1U19-17-16KVM-CO	17" LCD Monitor, Keyboard Drawer and 16 Port KVM <i>(1RU Rack Mount folding LCD Monitor, Rackmount Keyboard Tray, and Mouse, Includes 16 port KVM with 16 cables, combo USB/PS2).</i>	\$1,750.00
KVM-4VGAUSB	4-Port Keyboard, Monitor and Mouse Switch + Cables <i>(Includes 4 6 ft Cables, and rack mount adapter)</i>	\$400.00
KVM-8VGAUSB	8-Port Keyboard, Monitor and Mouse Switch + Cables <i>(Includes 8 6 ft Cables, and rack mount adapter)</i>	\$600.00
M-Lynx-702	Marshall Dual 7" LCD Monitors, <i>(2 x 7 inch Color LCD Monitors, 3RU, 1-SDI, 1-Composite, 1-HDMI inputs, Looping SDI and Composite, RCA Audio Inputs, SDI audio de-embedding to head phone jacks)</i>	\$789.00
JVC-DT-N17H	JVC 17" HD Broadcast Monitor with Audio <i>(7RU, 2SDI, HDMI, DVI, VGA, YPbPr, YC, Composite, audio Metering, speaker)</i>	\$2,100.00
LCM-119-3G	Plura 19" General Use SD/HD Broadcast Monitor <i>(6RU, 1366x768 True 8 bit LED, 2SDI, HDMI, DVI, VGA, YPbPr, YC, Composite)</i>	\$1,260.00
SFP-17TRK	Plura Monitor Rack Mounting Kit for LCM-119-3G	\$209.00
BMD-HDL-AUDMON1RU12G	Blackmagic Audio Monitor <i>(Embedded, digital and analog sources, 1RU, 2 Speakers)</i>	\$1,195.00
Audio and Video Processors		
Ensemble Designs		
BEPS	BrightEye Power Supply (now included with each BE unit)	Included
BERKMT	BrightEye Rack Shelf, holds 3 full height or 6 1/2 height units	\$80.00
BEAC	BrightEye Analog Audio Breakout Cable, DH15 Analog Audio	\$80.00
PHX15	BrightEye Breakout for HD15 Analog Connector on Ave. and BE	\$75.00
BE2	Ensemble Bright Eye 2, Analog to SDI Converter	\$750.00

BE3	Ensemble Bright Eye 3, Analog to SDI with TBC/Frame Sync	\$1,400.00
BE5	Ensemble BrightEye 5, Analog Composite TBC/Frame Sync	\$950.00
BE11	Ensemble, SD-SDI to Analog Video Converter	\$750.00
BE16	Ensemble, SD-SDI to Analog Video Converter, TBC and Audio	\$1,500.00
BE24	Ensemble, SD-SDI to Analog Video Converter, Audio De-embedder	\$1,300.00
BE25	Ensemble BrightEye 25, Analog A/V to SDI with TBC & Embedder	\$1,300.00
BE56	Ensemble BrightEye 56, HD/SD-SDI Test Generator with Sync	\$2,750.00
BE72	Ensemble BrightEye 72, SDI to HDMI converter with audio <i>(Turns HDTV to Broadcast Monitor, Closed Caption Decoder, Time Code AFD and Audio Level Meters, Sate Title/Graticule Overlay, Color Corrector, H & V Shift, Mirror Mode for On-Camera Talent, Analog Audio Outputs)</i>	\$650.00
BE43	Ensemble BrightEye 43, 1x6 HD/SD-SDI Distribution Amplifier	\$600.00
BE90A	Ensemble BrightEye 90A, Up Down Cross Converter, with Frame Sync	\$3,000.00
BE91-A	Ensemble BrightEye 91A, HD-SDI Up converter with Analog Audio	\$2,100.00
BE92-A	Ensemble BrightEye 92A, HD-SDI Down converter, Analog Audio	\$1,500.00
BE92-M	Ensemble BrightEye 92A, HD-SDI Down converter	\$1,200.00
Extron		
MDA-3AV	Extron 1x3 Video and Audio Distribution Amplifier <i>(Composite Video, Balanced and Unbalanced stereo audio)</i>	\$298.00
DA-6A	Extron 1x6 Audio Distribution Amplifier (Balanced Stereo)	\$420.00
MDA-5V	Extron 5-Output Analog Video Distribution Amplifier <i>(1RU 1/4 Rack Package, 5 Analog Video outputs, looping video input)</i>	\$264.00
RSF-123	Extron Rack Mounting Shelf	\$95.00
Blackmagic Designs		
CONVMAAS2	Black Magic analog video to SD-SDI Converter <i>(composite video and audio to Serial Digital Video)</i>	\$195.00
CONVMASA4K	Black Magic SD-SDI to Analog Video Converter <i>(Serial Digital Video to Composite Video and Audio)</i>	\$295.00
CONVMUDC	Black Magic HD/SD-SDI Up Down Cross Converter <i>(Serial Digital HD to SD or SD to HD, loop input, 5 outputs, reference)</i>	\$155.00
CONVMSDIDA4K	Black Magic SDI Distribution Amplifier <i>(1x8 HD/SD-SDI Distribution Amplifier)</i>	\$295.00
CONVMCAUDS2	Black Magic Audio to SDI Embedder <i>(Analog audio to SDI encoder/embedder)</i>	\$195.00
CONVMCSAUD	Black Magic SDI to Audio De-embedder <i>(SDI to Analog audio de-embedder)</i>	\$195.00

CONVMSYNC	Blackmagic Blackburst Sync Generator <i>(Mini Converter Series, 6 Analog Blackburst or TriSync outputs, dip switch selectable)</i>	\$195.00
Other Manufacturers		
DA-HDTV-SDI	Apantac HDMI to HD/SD-SDI Converter	\$700.00
AERO-ARC	Linear Acoustic SDI Embedded Audio Loudness Processor <i>(1RU, 1Channel Stereo Processor, Loudness Control, CALM Dialog Normalization, SDI and AES IO, Loudness Logging, Windows status and control application.)</i>	\$4,195.00
BBG-1002-UDX	Cobalt BBG Up Down Cross Converter with Frame Sync <i>(4 inputs 3G/HD/SD-SDI; 4 outputs, selectable from Web UI, fast input detect, multiple preset configurations, full frame sync, 1-RU 1/3 per rack space)</i>	\$3,500.00
BBG-1002-UDX-DSP	Cobalt BBG Cross Converter with Frame Sync & Audio Management <i>(4 inputs 3G/HD/SD-SDI; 4 outputs, selectable from Web UI, fast input detect, multiple preset configurations, full frame sync, 1-RU 1/3 per rack space, Includes circuit board for audio level management option LP20)</i>	\$4,290.00
+DSP-RTLL-2.0	Cobalt Dolby RTLL Stereo Loudness Processor Option	\$995.00
BBG-1000-TRAY	1 RU Rack Tray for 3 1/3rd Wide Cobalt BBG-1000 Products	\$249.00
AJA FS1	AJA FS1 Up-Down-Cross Converter <i>(Cross Converter, Analog inputs and outputs, SDI input and 2 SDI outputs)</i>	\$2,995.00
IP Encoders and Decoders & Network Products		
PEG-Plus w/Zixi Opt	Drake HD Channel Encoder w/ Zixi Option <i>(Stand-alone MPEG-2 or H.264 PEG channel encoder, 1 SD/HD-SDI or Composite video inputs, SFP ethernet port, RJ45 10/100 ethernet management port, SDI PCM embedded audio, Dolby 2.1, MPEG1-layer 2 stereo, or AAC stereo, Includes Zixi output protocol.</i>	\$2,100.00
1002620	SFP Copper adapter for Encoder IP input	\$100.00
ND-24-IP	RL Drake IP Decoder <i>(Stand-alone MPEG-2 or H.264 PEG channel decoder, 1 SD/HD-SDI Output, analog A/V output, HDMI output, VBR or CBR, Closed Captioning, RJ45 Data input, RJ45 management port.</i>	\$1,495.00
ND-24-Zixi-LIC	Zixi Link License for Point-to-Point Links	\$2,245.00
96-01500	Niagara Go Stream Mini 100 <i>Small form factor H.264 Encoder with SDI, HDMI, Component and Composite. Power supply.</i>	\$1,200.00
HDIP	Blonder Tongue HDIP <i>(1RU, MPEG2 / H.264, SDI input, IP Output, Closed Captions)</i>	\$2,200.00
VL4510	Radiant HD/SD to IP Encoder <i>(1RU, MPEG2 / H.264, SDI input, IP - ASI Output)</i>	\$3,200.00
SFP-G-1310F1	Optic SFP TX/1310 RX/1550 Gig 1F	\$240.00

VL4430R-MR	Radiant IP to HD/SD-SDI Decoder <i>(1RU, MPEG2 / H.264, IP input, SDI Output)</i>	\$1,868.00
GIGA8P	Netgear 8-Port 10/100/1000 Ethernet Switch <i>(8-Port gigabit switch, half/full duplex, switched ports.)</i>	\$95.00
GIGA16P	Netgear 16-Port 10/100/1000 Ethernet Switch <i>(Rack Mounting, 16-Port gigabit switch, half/full duplex, switched ports.)</i>	\$275.00
GS748T	Netgear ProSAFE 48 Port Gigabit Smart Switch <i>(48 port, non-blocking, browser based switch management, APACE recommended)</i>	\$700.00
Equipment Racks and Accessories		
PER-1	Premier Equipment Rack Assembled Package (40-RU) <i>(1-Rack, Side Panels, Rear Door, Power Strip, Casters, Shelves and Blank Panels)</i>	\$2,100.00
PER-1B	Premier Equipment Rack Assembled Package (40-RU) No Door <i>(1-Rack, Side Panels, Power Strip, Casters, Shelves and Blank Panels)</i>	\$1,800.00
PER-2	Premier Equipment Rack Assembled Package (40x2-RU) <i>(2-Racks, Side Panels, Rear Doors, Power Strips, Casters, Shelves and Blank Panels)</i>	\$4,200.00
PER-2B	Premier Equipment Rack Assembled Package (40x2-RU) No Doors <i>(2-Racks, Side Panels, Power Strips, Casters, Shelves and Blank Panels)</i>	\$3,995.00
PER-3	Premier Equipment Rack Assembled Package (40x3-RU) <i>(3-Racks, Side Panels, Rear Doors, Power Strips, Casters, Shelves and Blank Panels)</i>	\$5,850.00
PER-3B	Premier Equipment Rack Assembled Package (40x3-RU) No Doors <i>(3-Racks, Side Panels, Power Strips, Casters, Shelves and Blank Panels)</i>	\$4,950.00
71145K61	8 Outlet Rack Mounting Power Strip	\$80.00
PPS-115A	24 Outlet Power Strip	\$125.00
System Integration and Support Plans		
TSAP-1	Turnkey System Accessory Package <i>(System Cables, Connectors and Documentation)</i>	\$650.00
TSAP-2	Turnkey System Accessory Package <i>(System Cables, Connectors, and Documentation)</i>	\$950.00
SYSINT	System Integration, Installation and Training <i>(Onsite System Integration, Installation and Training, Travel and Expenses)</i>	By Project
SVC-PH-HRLY	Tightrope Support Fee <i>(Telephone and Web VCN Intergration and Installation Support)</i>	\$150.00
MCS 3000 Series Frames and Modules		
CMF-3000B	Rack Mounting Frame, 3.5" X 19". Holds 12 3000-series modules.	\$400.00
CMF-1000A	1RU Frame for 4-modules, includes external power supply	\$350.00
RPS-3002ES	Single Power Supply, External, 110/220 50/60hz, +/-12,+5vdc	\$200.00
RPS-3002ED	Dual Power Supply, External, 110/220 50/60hz, +/-12,+5vdc	\$400.00

BFP-30XXA	Blank Filler Panel for CMF-3000B, Specify number of spaces	\$25.00
FWD-3000A	Frame Wiring and Connector Panel, One FWD per module.	\$100.00
CCE-3001A	Card Extender for 3000 series modules.	\$50.00
CFD-3001A	Spyglass Channel Failure Detector Module	\$350.00
SCM-3002A	Spyglass Comparator Module, Audio Mux and Logic Switch Ctl	\$250.00
CTD-3104A	4-Digit High Speed DTMF Cue Tone Decoder	\$300.00
DTG-3001A	4-Digit High Speed DTMF Cue Tone Generator	\$300.00
DTG-103A	Hand-Held DTMF Tone Generator	\$195.00