

# **EXHIBIT 7**

# BroadcastEngineering.

FOR THE INDUSTRY: [HOME PAGE](#) // [NEWS](#) // [LEITCH OFFERS HD/SD SERIAL DIGITAL LEGALIZER](#)

## Leitch offers HD/SD serial digital legalizer

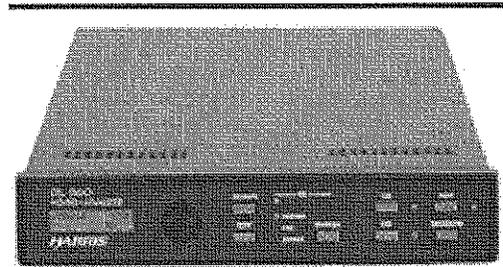
May 15, 2006 2:19 PM, Beyond The Headlines e-newsletter



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Harris is now offering a cost-effective solution as part of its Leitch product line that eliminates the guesswork of signal legalization for both HD and SD signals.

The DL-860 accepts all HD and SD formats, and offers complete flexibility for legalizing HDI-SDI or SD-SDI signals. Its output format tracks the input format. The signal can be legalized to HD, SD, RGB and/or encoded color space. CRC values are monitored and recalculated to ensure proper output values. Input equalization added to the incoming video is displayed on the front panel.



Broadcast and production professionals are using video legalizers like the DL-860 from Leitch to conform incoming video signals to industry-defined legal limited ranges.

All limits are variable, allowing for many custom configurations to the HD and SD clips, encoded gamut, and RGB gamut limits. All operational parameters, including the selectable bypass function, are also supported via Ethernet using the embedded Web server interface. The DL-860 is also compatible with the Leitch CCS Navigator control and monitoring software, and the NUCLEUS user-customizable control panel.

The Harris legalizer product line also includes the original DL-810 for SD signal input.

For more information, visit [www.harris.com](http://www.harris.com).

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**Products & Solutions / Signal Processing**

**Legalizers**

**High Definition-Standard Definition-Serial Digital**

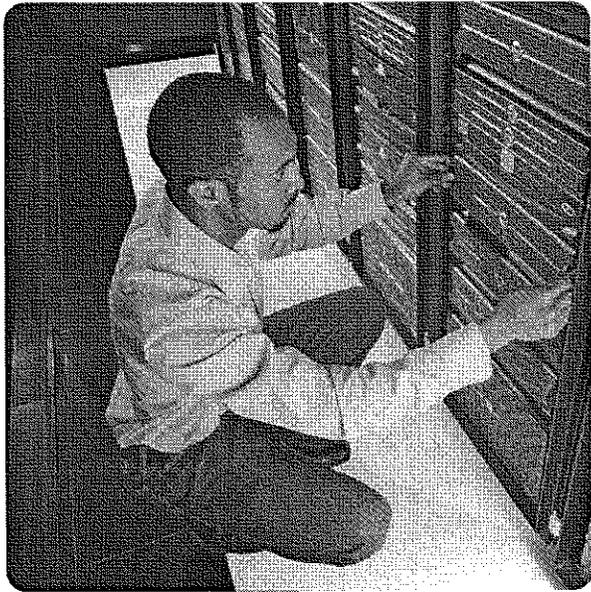
With over 30 years of video engineering excellence and years of extensive research, Harris® provides outstanding solutions designed to address the complexities of video legalization. The DL-860 HD/SD serial digital legalizer provides straightforward and intuitive operation and a powerful set of unique, popular features. Harris legalizers offer unmatched functionality and the highest quality available on the market today.

**HD and SD Legalizers**

**DL-860**

**HD/SD Legalizer**

# **EXHIBIT 8**



## Infrastructure Migration Services

### Reducing TCO While Improving Quality

Most mid-size and large organizations are facing the same dilemma — how to reduce the Total Cost of Ownership (TCO) of their infrastructure while improving the quality of the service. Business acquisitions, the lack of coordinated hardware and software procurement, and the lack of strategic refresh plans have created legacy infrastructure environments with little or no standardization resulting in disparity in hardware models, software versions, and support models. These differences make ongoing support and security extremely difficult, time intensive, and expensive. Many of these internal IT organizations don't have the necessary experience with large-scale migrations to effectively and rapidly manage these changes. To reduce implementation time and minimize business disruption, they are looking for experienced system integrators for the right mix of experience, technical expertise, and business knowledge to develop and implement a plan that ensures the needs of the organization are met.

### Migration Expertise Based on Time-Tested Methodologies and Processes

Dell Services has been helping organizations around the globe with complex infrastructure migrations using our proprietary end-to-end methodologies. We've built these based upon our years of experience in supporting mission-critical environments in multiple industries.

Our methodologies enable us to help our customers address four business issues: minimizing business risks, addressing security concerns, reducing Total Cost of Ownership, and increasing the quality of support. Our methodologies use a phased approach and supporting processes to ensure a seamless migration that minimizes business disruption. There is no "magic bullet" to most technology migration needs. To ensure success, Dell Services addresses all areas affected by the change — including facilities, people, processes, and technology by providing comprehensive program management, ongoing communication, and service delivery support to the IT staff and users.

### Change Management Approaches that Help You Succeed

With the changing business expectations of technology investments, the need for a standardized, secure, and scalable infrastructure is greater than ever. Managing this change, while minimizing disruption to the organization and users, is a challenge for all CIOs. Dell Services has the experience customers need for managing technology changes such as large-scale migrations, consolidations, and technology refreshes by applying industry best practices and our proven methodologies to deliver high quality, cost-effective solutions that enable your business strategy.

### Dell Services Infrastructure Migration Services Can Provide:

- Migration to Windows 7 for Desktops, Notebooks, and Servers
- Messaging System Migrations and Upgrades
- Data Center Consolidations
- Print and File System Consolidations
- Application Portfolio Rationalization
- Enterprise Support Systems Implementation
- Server Consolidation

### Microsoft — A Force of Change

Most organizations today have significant investments in Microsoft® technology. Continuity, scalability, greater security, and timely support are needs driving many technology investment decisions. Changes from Microsoft in licensing models and available support are forcing organizations to evaluate upgrading to the latest platforms, such as Windows 7. Additionally, Microsoft continues to improve their software by providing users with new functionality and features. Dell Services can help you understand the impact of these upgrades and assess the most effective way to implement them. Our participation in Microsoft's early adoption programs and joint development programs provides us with insight and early experience to help our customers get the right solution at the right time.

Dell Services will design and implement a migration strategy that aligns the program's success criteria with your business objectives. Our experience as a leading technology and systems integrator means you get the results you need using cost-effective solutions.

Dell Services Infrastructure Migration Services approach:

- Discovery Phase — a thorough discovery of your environment enables a comprehensive analysis that is used to define and validate your requirements, dependencies, resources, and overall program scope
- Architecture Phase — defines the roadmap for the program to ensure industry best practices and methods are followed thus minimizing Total Cost of Ownership and maximizing ROI
- Integration Phase — a formal pilot program designed to validate the design and implementation plans focused on early discovery of issues
- Deployment Phase — a comprehensive deployment program designed to address all aspects of the production environment including change schedules, people and processes, geography considerations, and security policies

Benefits of Dell Services Migration Programs:

- Lower Total Cost of Ownership — by standardizing operating systems across the enterprise, organizations may lower costs associated with ongoing support and security
- Minimized Risk — our proven methodologies and use of industry best practices provide a road map for successful planning and execution that is transparent to the end user and provide maximum reduction of risk
- Migration Plan Tailored for Your Organization — our consultants are trained to understand the needs of your business and design a plan that minimizes disruption and maximizes your ROI
- Improved Security — a standardized platform provides organizations with greater continuity around security software, versions, and policies

For more information about any of our service offerings, please contact your Dell representative or visit [dell.com/services](http://dell.com/services).

Applications Business Process Consulting Infrastructure Support



Services

# **EXHIBIT 9**



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**BROADCAST - NEWS - SPORTS**

Television production and broadcast engineers have always sought out the best technology for media events such as the Olympics. In the mid-1980s, **fiber-optic** transport was introduced into the television industry. Since that time there has been no looking back. **Fiber optics** are used in all aspects of production and distribution of video and audio signals. The state of the art for the transport of analog video is to use 12-bit video digital encoding. The serial digital bit rate can vary from about 144 to 300 Mbps.

With the introduction of digital video in the 1990s, **fiber-optic transport** continued to enjoy growth in the broadcast industry. Digital video was encoded into data rates ranging from 144 to 360 Mbps. These high bit rate video signals could only travel over copper up to about 300 meters. Transport distance beyond 300 meters required fiber.

The transition to 100% DTV/HDTV has created a need to transport signals with a bit rate as high as 3 Gbps. HDTV using an SDI interface (HD-SDI), in its native or uncompressed form, is 2.97 Gbps. HD-SDI can only reach about 150 meters over a coax. Once again, fiber is the only choice to reach distances beyond 150 meters.

Systems can be designed using many of the technologies described above. Analog and digital signal transport can be mixed. Time-division and optical multiplexing can be combined. A broadcast television station may typically reside in a downtown metropolitan area. The television transmitter and satellite up and down links may be on a distant mountaintop outside the city. This situation is a perfect application for **fiber transport**. The system may require both analog video and digital video since the station may be in the midst of their conversion from analog to digital broadcast. Signals in both directions will be required to support downlink satellite video.

Another typical application is that of back-haul feeds, where many channels of video and audio are trunked together over one fiber. Such a system can use TDM to combine groups of eight channels of video with audio into single wavelengths. The optical multiplexing or CWDM technology is used to combine the wavelengths with groups of eight videos onto one fiber. The combined technique of TDM and CWDM provides a fiber transport capacity of more than 144 video channels on one fiber.



**OTHER INDUSTRIES**

**BROADCAST - NEWS - SPORTS**

**HI-RES DISPLAYS- DIGITAL SIGNAGE**

**INTELLIGENT TRANSPORTATION - ITS**

**LAN - TELECOM**

**L-Band, CABLE TV - RF**

**MACHINE VISION - INDUSTRIAL**

**MEDICAL - EDUCATIONAL**

**MILITARY - GOVERNMENT**

**PRO AV - MULTIMEDIA**

**SECURITY - SURVEILLANCE**

**VIDEO CONFERENCE - ARRAIGNMENT**

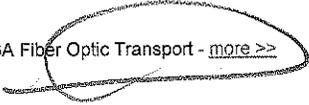
**PRODUCTS FOR THIS INDUSTRY**

Model	Description	Fibers	Video	Audio	Data	PDF
<a href="#">HD-3000</a>	3 Gbps Multirate Serial Digital Video Fiber Optic Transmitter, 5 - 2970 Mb/s - <a href="#">more &gt;&gt;</a>	1				
<a href="#">LIGHTBoX © LB-1150</a>	LIGHTBoX™ Battery Powered, Field Fiber Transport for HD Video. Awarded Pick Hit by BE & Best of IBC2008 by TVB Europe - <a href="#">more &gt;&gt;</a>	1 Fiber				

<a href="#">M-Link</a>	Low Cost, Rugged, Facility and Field Deployable Fiber Optic Cable Assemblies - <a href="#">more &gt;&gt;</a>	2 to 32				
<a href="#">ANDIG-2500-BR</a>	Analog 10MHz Reference + 33Mb/s BTS Fiber Optic Transport Link - <a href="#">more &gt;&gt;</a>	2 SM				
<a href="#">LIGHTBoX @ LB-1430-MC</a>	Fiber Optic Field Transport Multi-Core Extender for JVC-HD2xx Series Cameras - <a href="#">more &gt;&gt;</a>	1 TAC Cable				
<a href="#">LIGHTBoX @ LB-1430</a>	Fiber Optic Field Transport HD, Composite, Audio, Ethernet & Data Battery Operated & Bi-Directional - <a href="#">more &gt;&gt;</a>	1 Fiber				
<a href="#">HD-Multi-Link</a>	HDSDI Repeater/Transport, HDSDI Fan Out DA with HDMI & Audio monitoring. Available in 1.5G or 3G - <a href="#">more &gt;&gt;</a>	1				
<a href="#">FMX-GE1000</a>	Stand-alone Gigabit Ethernet Media Converter for 10/100/1000 BaseT - <a href="#">more &gt;&gt;</a>	2 or 1				
<a href="#">DVI-6000</a>	DVI, RGB-HV, UXGA & Component Video, DVI Single & Dual Link Fiber Transport - <a href="#">more &gt;&gt;</a>	1 SM & MM				
<a href="#">HD-3500</a>	1.5G or 3Gb/s Transport with Audio and Bi-directional Data over Single Fiber - <a href="#">more &gt;&gt;</a>	1				
<a href="#">Fiber.Comms</a>	4-Wire Audio & Data fiber transport for Intercoms and IFB - <a href="#">more &gt;&gt;</a>	1				
<a href="#">VPDA-2</a>	Single Rack-mounted Video, Pulse, Subcarrier DA - <a href="#">more &gt;&gt;</a>					
<a href="#">VWDA-100-RMD</a>	Dual Rack-mounted, 200 MHz Wide Band Video & 50 M Bit/sec Data Distribution Amplifier - <a href="#">more &gt;&gt;</a>					
<a href="#">ADA-7</a>	Portable Audio Distribution Amplifier - <a href="#">more &gt;&gt;</a>					
<a href="#">DAI-8550</a>	DA interface Adapter (requires 8) - <a href="#">more &gt;&gt;</a>					
<a href="#">AIA-8550 1RU</a>	Audio Interface Adapter for the GVG 8550 - <a href="#">more &gt;&gt;</a>					
<a href="#">AIA-880 2RU</a>	Audio Interface Adapter, XLR Break-out Panel - <a href="#">more &gt;&gt;</a>					
<a href="#">DAI-880</a>	DA interface Adapter Custom Assembly - <a href="#">more &gt;&gt;</a>					
<a href="#">DVM-3000-MOD</a>	1 Ch. 12 Bit Video, 2 Bi-dir Audio & 8 Bi-dir Data Fiber Optic Multiplexer for Surveillance and Transportation - <a href="#">more &gt;&gt;</a>	1				
<a href="#">DVM-2700-MOD</a>	2 Video & 8 Audio Fiber Optic Multiplexer - <a href="#">more &gt;&gt;</a>	1				
<a href="#">RGB-5000-FTX-50-ST-ET</a>	Synchronous, Single Fiber, Digital, RGB and VGA Fiber Optic System - <a href="#">more &gt;&gt;</a>	1				
<a href="#">VLD-2</a>	Dual Video Loss Detector - <a href="#">more &gt;&gt;</a>					
<a href="#">TS12</a>	Handheld 8 Bit NTSC Test Signal Generator - <a href="#">more &gt;&gt;</a>					

<a href="#">SPLIT5050</a>	Optical Splitter, 50/50 Gould - <a href="#">more &gt;&gt;</a>	1 to 2				
<a href="#">CWDM-2000</a>	Coarse Wave-Division Multiplexer for 4, 8, 16 & 18 Channels - <a href="#">more &gt;&gt;</a>	4, 8, 12, 16, 18 to ONE				
<a href="#">UTIL-200-FIBER</a>	SDI MODULAR FIBER OPTIC UTILITY TRAY - <a href="#">more &gt;&gt;</a>					
<a href="#">SilverBULLET™</a>	SilverBULLET™ Mini 3G HD-SDI Fiber Optic Link. \$1099/for set with PS & Pelican Case - <a href="#">more &gt;&gt;</a>	1				
<a href="#">DVM-2000</a>	1 Ch 12 Bit Video, 6 Ch 24 Bit Audio & 3 Ch Data Fiber Optic Multiplexer, Stand-alone - <a href="#">more &gt;&gt;</a>	1				
<a href="#">AES-210</a>	AES Re-clocking Distribution Amplifier - <a href="#">more &gt;&gt;</a>					
<a href="#">AES-2200</a>	8 Channel, AES/EBU, Digital Audio & Data - <a href="#">more &gt;&gt;</a>	1				
<a href="#">DAM-2000</a>	6 Ch. 24 Bit Audio & 3 Ch. Data Fiber Optic Multiplexer - <a href="#">more &gt;&gt;</a>	1				
<a href="#">DAM-2200</a>	6 Ch. 24 Bit Audio & 3 Ch. Data Fiber Optic Multiplexer - <a href="#">more &gt;&gt;</a>	1				
<a href="#">DAM-4000</a>	40 Channel, 24 Bit Audio Fiber Optic Multiplexer - <a href="#">more &gt;&gt;</a>	1				
<a href="#">DTM-2200</a>	8 Two-Wire, Digital, Telephone Fiber Optic Multiplexer - <a href="#">more &gt;&gt;</a>	1				
<a href="#">DTV-130 - replaced by the HD-1500</a>	400 MBps SDI Fiber Optic Transport, Stand-alone - <a href="#">more &gt;&gt;</a>	1				
<a href="#">DTV-201</a>	Serial Digital Video Fan-out DA; 1x4 - <a href="#">more &gt;&gt;</a>					
<a href="#">DTV-202</a>	Serial Digital Video Fan-out DA; 1x8 - <a href="#">more &gt;&gt;</a>					
<a href="#">DTV-210</a>	Automatic Standard Reclocking DA - <a href="#">more &gt;&gt;</a>					
<a href="#">DTV-225</a>	540 Mbps SDI Fiber Optic Transport, MM - <a href="#">more &gt;&gt;</a>	1				
<a href="#">DTV-235</a>	540 Mbps SDI Fiber Optic Transport, SM - <a href="#">more &gt;&gt;</a>	1				
<a href="#">DV-1394</a>	Firewire, IEEE 1394A/B, Fiber Optic Transport - <a href="#">more &gt;&gt;</a>	1 or 2				
<a href="#">DVI-ONE</a>	DVI Single Link Fiber Optic Transport, up to 1 KM or 3300 feet over ONE Multimode Fiber - <a href="#">more &gt;&gt;</a>	1 MM Only				
<a href="#">DVM-2200</a>	1 Ch 12 Bit Video, 6 Ch 24 Bit Audio & 3 Ch Data Fiber Optic Multiplexer, Modular Card - <a href="#">more &gt;&gt;</a>	1				
<a href="#">DVM-2500</a>	Bi-directional, Video, 8 Audio & 2 Data Fiber Optic Multiplexer - <a href="#">more &gt;&gt;</a>	1				
<a href="#">DVM-2700</a>	2 Video (or 1 S-Video, Portable Only) & 8 Audio Fiber Optic Multiplexer - <a href="#">more &gt;&gt;</a>	1				
<a href="#">DVM-3000</a>	1 Ch. 12 Bit Video, 2 Bi-dir Audio & 8 Bi-dir Data Fiber	1				

	Optic Multiplexer for Surveillance and Transportation - <a href="#">more &gt;&gt;</a>						
<a href="#">FMX-125</a>	12 Bi-dir Data, 2 Bi-dir Audio & 8 Tally - <a href="#">more &gt;&gt;</a>	1					
<a href="#">RGB-2000</a>	500 MHz RGB and VGA Fiber Optic Transport - <a href="#">more &gt;&gt;</a>	3 SM Only					
<a href="#">RGB-5000</a>	Synchronous, Single Fiber, Digital, RGB and VGA Fiber Optic System - <a href="#">more &gt;&gt;</a>	1					
<a href="#">TAC-2000</a>	Tactical Military Fiber Optic Cable and Spool Assemblies - <a href="#">more &gt;&gt;</a>	4, 8, 12					
<a href="#">UTIL-200</a>	VIDEO, SDI, TEST SIGNAL & CHARACTER ID MODULAR UTILITY TRAYS - <a href="#">more &gt;&gt;</a>						
<a href="#">UTIL-200-AUDIO</a>	AUDIO, AES DAs, MODULAR UTILITY TRAYS - <a href="#">more &gt;&gt;</a>						
<a href="#">UTIL-200-AV</a>	VIDEO, AUDIO, SDI, AES DAs, TEST SIGNAL & CHARACTER ID MODULAR UTILITY TRAYS - <a href="#">more &gt;&gt;</a>						
<a href="#">EOS Series</a>	Electro-Optical Fiber Routing Switcher, Full Matrix Switcher, OEO - <a href="#">more &gt;&gt;</a>	16 x 16 - 288 x 288					
<a href="#">CWDM-1AD &amp; 2AD</a>	CWDM Optical Add & Drop Multiplexers - <a href="#">more &gt;&gt;</a>	1A-1D / 2A- 2D SM Only					
<a href="#">RMT</a>	Dual RMD, Triple -RMT and Six RM6 Position Kits - <a href="#">more &gt;&gt;</a>						
<a href="#">WALL</a>	Wall-mount Plate for Stand-alone Units - <a href="#">more &gt;&gt;</a>						
<a href="#">UTIL-200-DVM</a>	VIDEO, AUDIO, SDI & AES MODULAR FIBER OPTIC UTILITY TRAY - <a href="#">more &gt;&gt;</a>						
<a href="#">HEMC-400 Series</a>	10/100Base-T Ethernet Fiber Optic Link - <a href="#">more &gt;&gt;</a>	1 or 2					
<a href="#">ODA-4000 Series</a>	Optical Distribution Amplifier and Wavelength Re-mapper - <a href="#">more &gt;&gt;</a>	1 x 8 1 x 16					
<a href="#">OM1200 Series</a>	Multiplex 4 Duplex Optical LAN/WAN High Speed Signals onto ONE fiber - <a href="#">more &gt;&gt;</a>	4 IO's into ONE Fiber					
<a href="#">VAGC-100</a>	Video Automatic Gain, EQ and Chroma Distribution Amplifier - <a href="#">more &gt;&gt;</a>						
<a href="#">AAGC-200</a>	Audio Automatic Gain Stereo Distribution Amplifier with VU Meters - <a href="#">more &gt;&gt;</a>						
<a href="#">ADA-200</a>	Stereo Audio Distribution Amplifier with VU Meters - <a href="#">more &gt;&gt;</a>						
<a href="#">VDA-8505</a>	20 MHz, Long Range Field DA for Video, Pulse, Subcarrier and AES/EBU Digital Audio with 3500 Ft. Equalizer for 8281 & RG-59U cable & Back Porch Clamp, 1x8, Modular Card - <a href="#">more &gt;&gt;</a>						
<a href="#">VPDA-100</a>	VIDEO, PULSE & SUBCARRIER DISTRIBUTION						



	AMPLIFIER with 3 CABLE EQUALIZERS & BACK-PORCH CLAMP - <a href="#">more &gt;&gt;</a>						
<a href="#">VAGC-200</a>	Video Automatic Gain, EQ and Chroma Distribution Amplifier - <a href="#">more &gt;&gt;</a>						
<a href="#">TS12-10B</a>	10 Bit NTSC Test Signal Generator with 12 Video Test Signals & VITS exceeding RS-250C specs. - <a href="#">more &gt;&gt;</a>						
<a href="#">PS-200</a>	Modular 85-265 VAC Power Supply & Line Cord for 200 series trays. - <a href="#">more &gt;&gt;</a>						
<a href="#">HD-1500</a>	1.5 Gbps HD-SDI Fiber Optic Link, Multirate, 5 - 1485 Mb/s, DVB/ASI, SMPTE 292M 259M 310M. - <a href="#">more &gt;&gt;</a>	1					
<a href="#">AES-2000</a>	6 Channel, AES/EBU, Digital Audio & Data Fiber Optic Multiplexer - <a href="#">more &gt;&gt;</a>	1					
<a href="#">DVM-4000</a>	4 Video & 16 Audio Fiber Optic - <a href="#">more &gt;&gt;</a>	1					
<a href="#">DVM-8000</a>	8 ch. 10 bit Video, 32 Ch. of 24 bit Audio and 4 Ch. Data - <a href="#">more &gt;&gt;</a>	1					
<a href="#">RGB-5000-SXGA</a>	Synchronous, Single Fiber, Digital, RGB and VGA Fiber Optic System - <a href="#">more &gt;&gt;</a>	1					
<a href="#">RGB-5000-FRX-DC</a>	Synchronous, Single Fiber, Digital, RGB and VGA Fiber Optic System with Daisy Chain - <a href="#">more &gt;&gt;</a>	1					
<a href="#">TP-RGB-1000</a>	RGB/UXGA Video over UTP CAT 5 - <a href="#">more &gt;&gt;</a>						
<a href="#">the SilverBACK-II</a>	1.5G or 3Gb/s Transport with Audio and Bi-directional Data over Single Fiber - <a href="#">more &gt;&gt;</a>	1					
<a href="#">DAM-1000</a>	2 Channels of 24 bit Audio and 3 Channels of RS232 Data - <a href="#">more &gt;&gt;</a>	1					
<a href="#">USB-200</a>	USB 2.0 Fiber Optic Transmitter & Receiver Pair - <a href="#">more &gt;&gt;</a>	1					
<a href="#">FSW-KSTST-WB</a>	A/B Protection Switch, ST/UPC Connectors, - <a href="#">more &gt;&gt;</a>	2 x 1 SM Only					
<a href="#">VAS-1000</a>	10 BY 1 VIDEO and AUDIO SWITCHER - <a href="#">more &gt;&gt;</a>						
<a href="#">SW-5 &amp; SW-10S</a>	VIDEO and STEREO AUDIO PASSIVE SWITCHERS - <a href="#">more &gt;&gt;</a>						
<a href="#">DAS-1000</a>	10 by 1 Serial Digital Video & AES/EBU Audio Routing Switcher - <a href="#">more &gt;&gt;</a>						
<a href="#">AEA-1</a>	XLR Audio Break-out Panel for the MultiDyne VAS-1000 and Grass Valley TEN XL - <a href="#">more &gt;&gt;</a>						
<a href="#">AB-200</a>	AUTOMATIC BYPASS & KEEP ALIVE SWITCH to AUTOMATICALLY TEST & ID Four Video Circuit - <a href="#">more &gt;&gt;</a>						
<a href="#">ADAM-200</a>	50 or 600 Ohm Mono Audio Distribution Amplifier - <a href="#">more &gt;&gt;</a>						

<a href="#">ADAS-200</a>	50/600 Ohm Stereo Audio Distribution Amp - <a href="#">more &gt;&gt;</a>					
<a href="#">VDA-201</a>	20 MHz, Video, Pulse, Subcarrier and AES/EBU Digital Audio Distribution Amplifier - <a href="#">more &gt;&gt;</a>					
<a href="#">VDA-202</a>	20 MHz, Video, Pulse, Subcarrier and AES/EBU Digital Audio Distribution Amplifier - <a href="#">more &gt;&gt;</a>					
<a href="#">VDA-210</a>	Equalizing, Video, Pulse Distribution Amplifier with Backporch Clamp - <a href="#">more &gt;&gt;</a>					
<a href="#">VDA-220</a>	Equalizing, Video, Pulse Distribution Amplifier with Backporch Clamp - <a href="#">more &gt;&gt;</a>					
<a href="#">WVDA-250</a>	200 MHz Wide Band Video & DS-3 Data Distribution Amplifier with 500 Ft. Equalizer - <a href="#">more &gt;&gt;</a>					
<a href="#">VDA-210-BALIN</a>	20 MHz, Video, Pulse and Subcarrier Distribution Amplifier - <a href="#">more &gt;&gt;</a>					
<a href="#">VDA-210-EQ-BALIN</a>	20 MHz, Video, Pulse and Subcarrier Distribution Amplifier - <a href="#">more &gt;&gt;</a>					
<a href="#">TS12-CARD</a>	Modular 10 Bit NTSC Test Signal Generator offers 16 precision test signals - <a href="#">more &gt;&gt;</a>					
<a href="#">CG-200</a>	Modular Plug-in Video Character ID Generator - <a href="#">more &gt;&gt;</a>					
<a href="#">COMMS-2000</a>	2-Wire to 4-Wire Intercom Interface for the HD, DVM & Fiber-Comms series - <a href="#">more &gt;&gt;</a>					
<a href="#">HD-4400</a>	4 Channel 3G HDSI Fiber Optic Transport Card with 4x4 Matrix for openGear NEW - <a href="#">more &gt;&gt;</a>	4 Fibers, 4x4 Matrix				
<a href="#">DAM-2500</a>	Bi-directional, 8 Audio & 2 Data Fiber Optic Multiplexer - <a href="#">more &gt;&gt;</a>	1				
<a href="#">LIGHTCuBE®</a>	Fiber Optic Field Transport HD, Composite, Audio, Ethernet & DataBattery Operated & BI-Directional - <a href="#">more &gt;&gt;</a>	As few as ONE!!				
<a href="#">HD-3400</a>	1.5G or 3Gb/s Transport with Audio over Single Fiber - <a href="#">more &gt;&gt;</a>	1				
<a href="#">HalfCuBE</a>	Fiber Optic Field Transport HD, Composite, Audio, Ethernet, DataPL, IFB, BI-Directional & Battery Operated - <a href="#">more &gt;&gt;</a>	1				
<a href="#">EMB-4321G</a>	HD/SD Embedder with Dolby® Decoding option - <a href="#">more &gt;&gt;</a>					
<a href="#">DEM-4322G</a>	HD/SD De-embedder with Dolby® Decoding option - <a href="#">more &gt;&gt;</a>	AR_Blank.gif				
<a href="#">HD-4400-CWDM</a>	Transport 16, 3G, HDSI over ONE Fiber in 4 openGear Slots. 18 Signals in 5 Slots. - <a href="#">more &gt;&gt;</a>	1 Fibers, 4 3G / HDSI				

<a href="#">LIGHTBoX @ 3D</a>	Fiber Optic Field Transport HD, Composite, Audio, Ethernet & Data Battery Operated & Bi-Directional - <a href="#">more &gt;&gt;</a>	1 Fiber				
<a href="#">FiberSaver</a>	Fiber optic wavelength re-mapper and multiplexer system for openGear. - <a href="#">more &gt;&gt;</a>	1				
<a href="#">HD-3200</a>	1.5G or 3Gb/s Transport with Bi-directional Data over Single Fiber - <a href="#">more &gt;&gt;</a>	1				
<a href="#">HD-3000-II</a>	Dual 3G HDSDI Fiber Transport w/ OLED Display and Control - <a href="#">more &gt;&gt;</a>	1				
<a href="#">FS-6000 FIBER-SAVER</a>	Optical Remapper/Multiplexer - <a href="#">more &gt;&gt;</a>	1				
<a href="#">VDA-2419</a>	VDA-2419 - Digital Video Distribution Amp & Optical Transceiver - <a href="#">more &gt;&gt;</a>	2				
<a href="#">KVM-6000</a>	DVI Single Link, Dual Link or RGB-HV, & 2-CH Audio, Data and USB over 1 Fiber - <a href="#">more &gt;&gt;</a>	1				
<a href="#">SMPTE-HUT</a>	Hybrid Universal Transceiver for extending HD Camera Systems over Standard Singlemode Fiber - <a href="#">more &gt;&gt;</a>	2				

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# **EXHIBIT 10**

# Video server

From Wikipedia, the free encyclopedia

A **video server** is a computer based device (also called a "host") dedicated to delivering video.

Unlike personal computers, being multi-application devices, a video server is designed for one purpose; provisioning video, often for broadcasters. A professional grade video server records, stores, and playout of multiple video streams without any degradation of the video signal. Broadcast quality video servers often store hundreds of hours of compressed audio and video (in different codecs), play out multiple and synchronised simultaneous streams of video by, and offer quality interfaces such as SDI for digital video and XLR for balanced analog audio, AES/EBU digital audio and also Time Code. A genlock input is usually provided to provide a means of synchronizing with the house reference clock, thereby avoiding the need for timebase correction or Frame synchronizers.

Video servers usually offer some type of control interface allowing them to be driven by broadcast automation systems that incorporate sophisticated broadcast programming applications. Popular protocols include VDCP and the 9-Pin Protocol.

They can optionally allow direct to disk recording using the same codec that is used in various post-production video editing software packages to prevent any wasted time in transcoding.

## Contents

- 1 Broadcast automation
  - 1.1 Features
- 2 Video Surveillance
- 3 See also
- 4 References

## Broadcast automation

In TV Broadcast industries, a server is a device used to store broadcast quality images and allows several users to edit stories using the images they contain simultaneously.

The video server can be used in a number of contexts, some of which include:

- News: providing short news video clips as part of a news broadcast as seen on networks (like CNN and Fox News).
- Production: enhance live events with instant replays and slow motion and highlights (sport production) (see OB Vans)
- Instruction: delivering course material in video format.
- Public Access: delivering city specific information to residents over a cable system.
- Surveillance: deliver real-time video images of protected sites.
- Entertainment: deliver film trailers or music videos.

## Features

Typically, a video server can do the following:

- Ingest of different sources : video cameras (multiple angles), satellite data feeds, disk drives and other video servers. This can be done in different codecs.
- Temporary or definitive storage of these video feeds.
- Maintain a clear structure of all stored media with appropriate metadata to allow fast search : name, remarks, rating, date, time code, etc.
- video editing of the different clips
- Transfer those clips to other video servers or playout directly (via IP interface or SDI)

Generally, they have several bi directional channels (record and ingest) for video and audio. A perfect synchronisation is necessary between those channels to manage the feeds.

## Video Surveillance

In the surveillance context, an **IP video server** converts analog video signals into IP video streams. The **IP video server** can stream digitized video over IP networks in the same way that an IP Camera can. Because an IP Video server uses IP protocols, it can stream video over any network that IP can use, including via a modem for access over a phone or ISDN connection. With the use of a video server attached to an analog camera, the video from an existing surveillance system can be converted and networked into a new IP surveillance system.

In the video security industry a video server is a device to which one or more video sources can be attached. Video servers are used to give existing analog systems network connectivity. Video servers are essentially transmission/ telemetry / monitoring devices. Viewing is done using a web browser or in some cases supplied software. These products also allow the upload of images to the internet or direct viewing from the internet. In order to upload to the internet an account with an ISP (internet service provider) may be required.

## See also

- Broadcast automation and playout
  - Centralcasting
  - Media server (Consumer)
  - XT[2] – a video server
  - Magisto
- 
- For Broadcast Equipment you can contact Total Broadcast Solutions rivate Limited.

## References

Retrieved from "[http://en.wikipedia.org/w/index.php?title=Video\\_server&oldid=498981694](http://en.wikipedia.org/w/index.php?title=Video_server&oldid=498981694)"

Categories: Broadcast engineering | Television terminology | Video storage | Video

- 
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# **EXHIBIT 11**



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## TI DaVinci DM355 Video Networking Module

### Mini35T

US\$169.00

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What's New?

[Enhanced AVR Dragon ISP USB Programmer and Emulator](#)  
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Notifications

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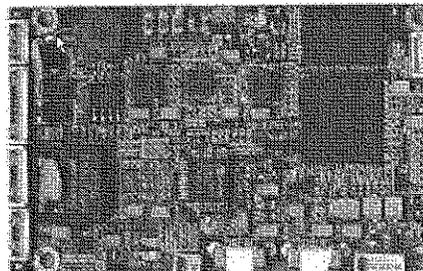
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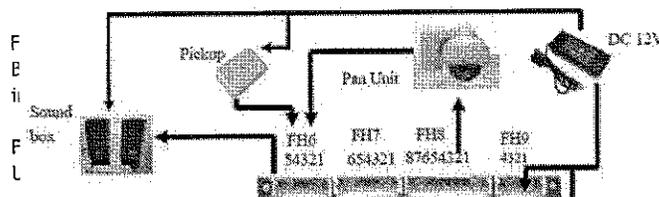
- \* Highly-integrated and Highly-reliable Embedded Mini Network Video Module based on DaVinci DM355 ARM9 Processor with a 640MHz DSP (digital signal processor) core
- \* Video Input, Audio Input/Output, Ethernet, USB Host, Micro SD card socket...
- \* D1+CIF Double-stream MPEG-4 encoder, AVI Format, Bit Stream 0.1M-4Mbps adjustable
- \* Support embedded Web Server and has the function of Video Sever



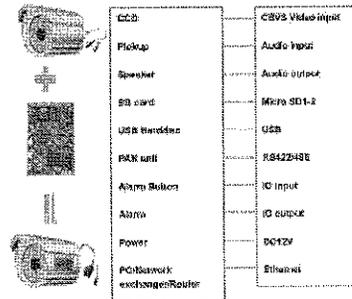
### TI DaVinci DM355 Video Networking Module Features

- \* Size: 42mm x 70mm
- \* DC12V power input interface, 3W power dissipation
- \* Processor: TI DaVinci DM355 (32-bit, a 216MHz or 270MHz ARM926EJ-5 core with a 640MHz DSP core), watchdog, 32MB Flash, 128MB DDR2
- \* 1-channel CBVS video input, PAL/NTSC auto-detection, Video processing functions: D1 + CIF dual-stream MPEG4 encoder, AVI format, bit stream 0.1M - 4Mbps adjustable; frame rate 1f-30f/s adjustable; low code-stream and high-definition stream-media processing function.
- \* 1-channel audio input (can connect with pickup); 1-channel audio output (can connect with earphone or speaker). Audio processing functions: support Bi-way talking system, G.711 encoding, G.711 codec.
- \* 1-channel 10/100M Ethernet interface, supporting FTP / PPPOE / DHCP / DDNS / NTP / UPnP network protocol, etc.
- \* Two Micro SD card interfaces, a high-speed USB interface. Support front-end dual-Micro SD memory card or USB mobile storage device access.
- \* Mini35 provides RS422/RS485 serial port to support transparent serial transmission, tilt control support, high-speed ball machine or external cameras and other equipment.
- \* Mini35 has 1-channel switch input (can connect with external alarm button); 1-channel switch output (can connect with external alarm).
- \* Functions: front-end storage, remote monitoring can also be stored (running Embedded Web Server and supporting the functions of video server), Motion Detection Alarm / Storage linkage, OSD, unified client remote monitoring (UC) and control.

### Mini35 Interfaces



interface  
 FH3, FH4: SD card interface  
 FH5: Special Debug port  
 FH6: CVBS video input, audio input and output interfaces  
 FH7: Ethernet interface  
 FH8: RS485 interface  
 FH9: Power input



**TI DaVinci DM355 Video Networking Module Download**

[\\* Mini35 Network Video Module Overview](#)

Ships from: China  
 Lead time: 3 days

This product was added to our catalog on Friday 17 December, 2010.



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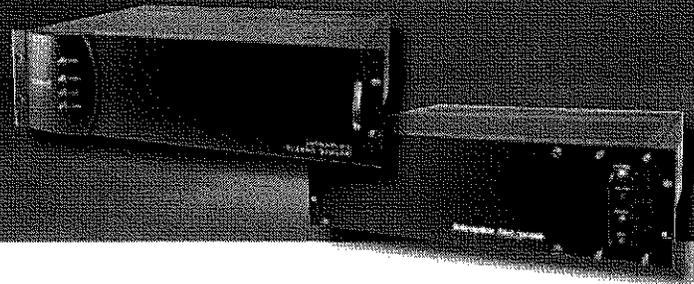
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# **EXHIBIT 12**

## Intraplex® VF-40

### 4-Wire Voice Transport Module



#### Voice Transport for Land Mobile Radio

The VF-40 module is designed to meet the specialized voice transport requirements of land mobile radio (LMR) infrastructure installations. This module works with the MA-311 module adapter in Intraplex® Access Server multiplexers for T1 or E1 network applications and in Intraplex NetXpress™ multiplexers for IP networks.

#### Enhanced Low-Frequency Response

Continuous Tone Coded Squelch System (CTCSS) tones — or Private Line™ (PL) tones — ranging in frequency from 67 Hz to 254 Hz enable unobtrusive sharing of radio channels among multiple user groups. The digital version of this capability, Digital Coded Squelch (DCS) or Digital Private Line™ (DPL), requires voice frequency transport as low as 5 Hz. Low-speed signaling on legacy trunking systems also requires transmitting tones at frequencies below 300 Hz.

Traditional voice channels roll off quickly below 300 Hz, making them unusable for transporting these important LMR control signals. The VF-40 features enhanced low-frequency response to 5 Hz and below, providing seamless support for the entire range of low-frequency signaling applications.

#### Contact Closure Transport

The VF-40 provides two independent contact-closure signaling lines in both transmission directions for each of the four voice channels to support PTT, facility alarms, receiver un-squelch status or other signals. This transport of up to eight signaling leads in each direction per module increases efficiency in LMR infrastructure bandwidth use and simplifies system design.

#### Simulcast System Upgrades

When used with the Intraplex SynchroCast® or SynchroCast3™ system, the VF-40 module supports distribution of PL tones from a common point in simulcast LMR systems and provides an upgrade path for transitioning legacy simulcast systems onto modern high-speed digital backbones.

#### Features

- Frequency response  $\pm 0.5$  dB from 3000 Hz down to 5 Hz, with gentle roll-off below 5 Hz (typically 1 dB down at 2 Hz), provides support for PL, DPL and trunking signals
- Consistent channel gain, factory-calibrated to within  $\pm 0.2$  dB, ensures reliable simulcast operation
- Sharp roll-off above 3000 Hz eliminates transmission of unwanted high-frequency signals
- Four voice channels per module, with two contact-closure signaling lines in both directions for each voice channel, supports efficient multichannel LMR installations

## Specifications

Specifications are subject to change without notice.

### General

Operating Modes	Four independent 4-wire voice channels Two independent signaling paths in both directions per voice channel
System Compatibility	Compatible with Intraplex T1, E1, and IP access products Compatible with Intraplex SynchroCast3 and SynchroCast simulcast systems

### Voice Frequency

Frequency Response	5 Hz to 3000 Hz, $\pm 0.5$ dB
Channel Gain Accuracy	$\pm 0.2$ dB of nominal at 1004 Hz
Input/Output Level (Nominal)	0 dBm, +7 dBm, or -16 dBm Independently jumper-selectable for input and output of each voice channel
Maximum Input/Output Level	3 dB greater than the selected nominal input or output level
Fine Input/Output Level Adjustment	Adjustment steps $< 0.5$ dB Adjustment range -6 dB to +6 dB Available via remote control only
Input/Output Impedance	Balanced 600 ohms
Idle Channel Noise	Less than 26 dBmCO
Signal to Distortion	1004 Hz input, 0 to -30 dBm: greater than 33 dB with C message weighting

### Signaling

Contact Closure (E&M)	
Signaling	Two independent signaling lines in both directions for each of the four voice channels. Ground on input (M lead) causes far-end relay output (E lead) to change state. Both normally open and normally closed outputs available for each signaling line. Normally open contact use creates equivalent of E&M Type V signaling.
Signaling Format	In T1 systems: Robbed Bit A,B In E1 systems: CAS

### Input/Output Module

Connector	50-pin telco-type female connector on MA-311
-----------	--

### Network Interface

Coding and Data Rate	$\mu$ -law PCM, 64 Kb/s per channel
Time Slot (DSO) Assignments	One to four sequential time slots (one per active channel) Selectable starting time slot

### Status and Diagnostics

LED Indicators	Green LED for Service On Yellow LED for loopback state
Loopbacks	Local loopback — simultaneous loopback of all four voice channels for installation verification Remote loopback — individual loopback of each voice channel for full circuit test

### Physical and Environmental

Nominal Power Consumption	Less than 4.0 W
Temperature	0° C to 50° C (32° F to 122° F) operating
Humidity	0% to 90% non-condensing

### Regulatory Compliance

FCC Part 15
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For more information, please visit [www.broadcast.harris.com/intraplex](http://www.broadcast.harris.com/intraplex).

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it infrastructure deployment

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*Page 2 of 3*

## Infrastructure Deployment

After thorough planning, our team develops a process to approach infrastructure deployment projects. Our approach helps ensure that infrastructure implementations are consistent with your business objectives, and can be effectively utilized once the technology has been deployed.

Technology infrastructure exists to meet the business needs of the organization. It supports the enterprise architecture, facilitates communications and/or exchange of information, facilitates the attainment of business objectives, and organizes the knowledge capital of the enterprise.

The technology infrastructure is where it all comes together. No single element or part of an Information Technology (IT) organization can be considered the infrastructure. All elements must be considered for a project to be successful.

Composition of the technology infrastructure includes:

- **People.** The combined efforts of the staff chartered with procuring, installing, maintaining, using, and retiring the technology
- **Processes.** IT strategic planning, acquisition, deployment and implementation, steady-state management, and post-use retirement
- **Technology.** Elements required to provide and sustain reliable access to data and services

*"We ensure that your infrastructure implementations are consistent with your business objectives."*



Page 3 of 3

# **EXHIBIT 14**

<a href="#">Home</a>	<a href="#">Getting Started</a>	<a href="#">General Info</a>	<a href="#">Opportunities</a>	<a href="#">Agencies</a>
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## IT Infrastructure Deployment and Maintenance Services

Solicitation Number: 20064187  
 Agency: Department of Homeland Security  
 Office: Customs and Border Protection  
 Location: Procurement Directorate - IN

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**Original Synopsis**  
 May 25, 2011  
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**RFI/Sources Sought Notice 20064187**

Type: Other (Draft RFPs/RFIs, Responses to Questions, etc..)  
 Posted Date: May 25, 2011

[RFI for Infrastructure Deployment and Maintenance Se... \(72.50 Kb\)](#)  
**Description:** Customs and Border Protection IT Infrastructure Deployment and Maintenance Services

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# **EXHIBIT 15**

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**...case studies**

**Public Sector**

**Commercial**

**Cloud Computing**

Dev and Test Environments  
Speed Up Delivery

IT Infrastructure Migration

Disaster Recovery and  
Continuous Operation

**review our case studies**

**it infrastructure migration**

Development and Test Environment in the Cloud Speeds up I

**problem**

A large telecommunications company was working on ShareF timeline. Although, they had a traditional datacenter with all production environments, they were unable to use the develop because they were already being used for another project. The 2-4 weeks before they would be granted access to the servers. for the quality assurance team to finish working on the other

**approach**

CloudAdvantage did a quick assessment of the servers needed proposed that the client build a temporary development and t

**result**

Instead of waiting 2-4 weeks, the client was able to get the de running in 1 day. This allowed the client to stay on schedule a top of the time savings, the client was able to save a significan new servers or software had to be purchased in order to supp client took advantage of the pay-as-you-go model and was abl once the project was completed.

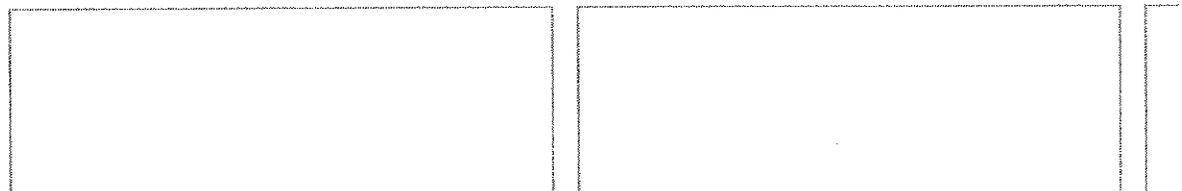
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