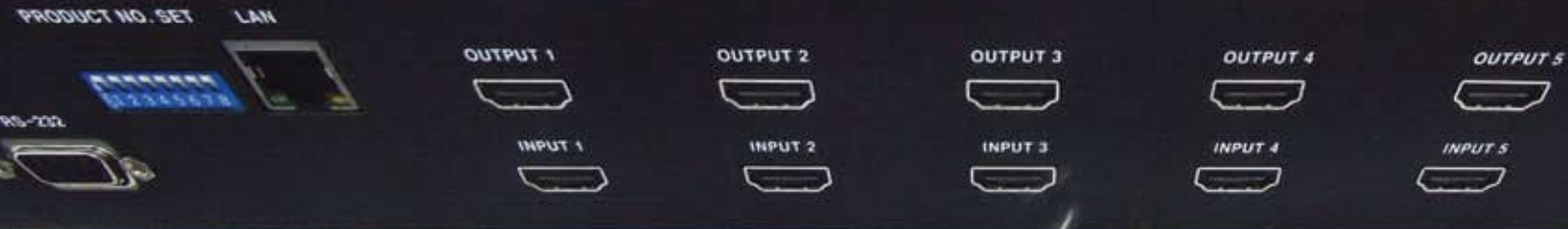


# DIGITAL SOLUTIONS

## For The AV Professional



### COMPLETE DIGITAL SOLUTIONS:

- REPEATERS
- DISTRIBUTION AMPLIFIERS
- SWITCHERS
- FIBER OPTIC SOLUTIONS
- HDMI AND DVI CABLES



**800-530-8998**  
THE AV PROFESSIONAL'S FIRST CHOICE.

# The Liberty **ADVANTAGE** ★★ ★

AV Professionals rely on Liberty's **EXPERTISE, SELECTIONS & SERVICE.**

## DigitaLinx Solutions Overview

DigitaLinx™ is Liberty's solution for digital display signals such as HDMI and DVI. For over 17 years, AV professionals have trusted Liberty for analog cables. Now the same support and reliability you've become accustomed to, is available in digital devices and cables.

From the beautiful DL series HDMI cables to the "E" series cables with lengths up to 35 meters (with in-wall (CL2) UL fire ratings), no one tests their products to a higher standard than Liberty.

Our complete line includes:

- Repeaters
- Switchers
- Distribution amplifiers
- Copper and fiber cables

Digitally driven displays offer the ultimate in High Definition displays for Blu-Ray, HD-DVD, high-definition set top boxes and game devices. No other technology offers the pixel-to-pixel sharpness, color accuracy or loss-less transmission. Only HDMI supports content protection at the highest resolutions.

### GREAT SERVICE

Strategically located around the US, our 4 mega-warehouses, ship ground delivery in 2 days to your door.

- No order minimums policy
- Order on our 24/7 website
- Order confirmation and a shipping confirmation
- Variety of shipping options including next day, 3 day, air and truck
- Job site delivery

## Digital Solution Products



**PERFECT FOR**

- New Smaller Size Repeater with DC Power
- AC Adapter Provided

### HDMI REPEATER

**PART #: DL-HDR**

Liberty's HDMI Repeater extends the length of any HDMI or DVI cable by regenerating the

digital signal before it outputs to the HDMI or DVI monitor or projector. HDMI Repeater

enables you to relocate your video sources or computer to a safe, quiet and hidden location.

#### Main Features

- Connects DVD, Blue Ray, set-top boxes, games and computers with HDMI/DVI graphic cards to HDMI/DVI compatible monitors or projectors
- Supports high resolution up to UXGA (1600\*1200) at 60Hz refresh rate, 480p, 720p, 1080i/p
- Supports DDWG standard for DVI compliant monitors
- HDCP compliant

#### Technical Information

- Frequency Bandwidth : 1.65 GHz
- Video Resolution : Up to UXGA (1600\*1200), HD signal up to 1080i/p
- Inputs : HDMI Female port / Output : HDMI Female port
- Power Supply : External DC 5v supply included, use as needed
- Dimensions (W\*D\*H, in) : 2\*2\*0.75 - Weight (lb) : 0.5

Devices Available with DVI Connections

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**PERFECT FOR**

- Monitoring System
- Home Theaters with Multiple Displays



**HDMI 1 IN, 5 OUT DISTRIBUTION AMPLIFIER**

**PART #: DL-HDD15**

Liberty's Distribution Amplifier allows one digital HDMI or DVI video or computer source to be

displayed on up to five HDMI displays. The built-in extender function enables HDMI

and DVI signal distribution without any signal loss for maximum cable length.

**Main Features**

- Built-In dip switch, adjusts DDC Signal Conflict
- Supports HDTV Resolution : 480p, 720p, 1080i/p
- Supporting resolution: VGA(640\*480) , XGA (1024\*768), SXGA(1280\*1024), UXGA(1600\*1200)

**Devices Available with DVI Connections**

**Technical Information**

- Frequency Bandwidth : 1.65 GHz
- Video Resolution : Up to UXGA (1600\*1200), HD signal up to 1080i/p
- Audio Sampling rates : Up to 24bit / 192KHz
- Inputs : 1 HDMI "A"TYPE Female connector
- Outputs : 5 HDMI "A"TYPE Female connector
- Power Supply : DC 5V, 2A Power supply adapter included
- Dimensions (W\*D\*H , in) : 11\*3.9\*1.2 -Weight (lb) : 2.98



**PERFECT FOR**

- Monitoring System
- Home Theaters with Multiple Displays



**HDMI 2 IN, 5 OUT DISTRIBUTION AMPLIFIER**

**PART #: DL-HDD25**

Liberty's Distribution Amplifier allows two digital HDMI or DVI video or computer source to be

displayed on up to five HDMI displays. The built-in extender function enables HDMI and

DVI signal distribution without any signal loss for maximum cable length.

**Main Features**

- High Quality Picture - No Signal Loss and Digital Noise Free
- Signal Amplification for signal reliability and long length signal transmission.
- Easy switching between two HDMI sources.
- DL-HDD25 enables daisy chain connection up to 4 layer distributors
- HDCP Compliant at all output channels

**Technical Information**

- Frequency Bandwidth : 1.65 GHz
- Supports Resolution: HDTV signal 480p,720p,1080i/p
- Inputs : 2 HDMI "A"TYPE Female connector
- Outputs : 5 HDMI "A"TYPE Female connector
- Dimensions (in) : 12.2\*5.7\*1 -Weight (lb) : 2.65

**Devices Available with DVI Connections**

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**PERFECT FOR**

- Monitoring System
- Home Theaters with Multiple Displays

**HDMI 1 IN, 10 OUT Distribution Amplifier**

**PART #: DL-HDD110**

Liberty's Distribution Amplifier allow one digital video and audio source to be displayed on

up to into ten digital displays. The built-in extender function enables HDMI

signal distribution without signal loss.

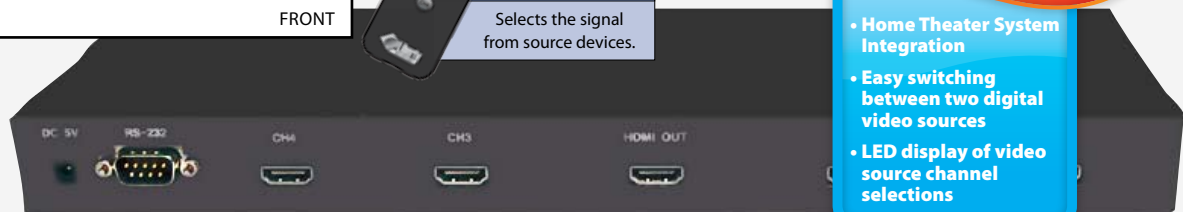
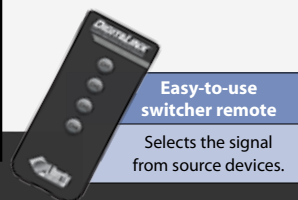
**Main Features**

- High Quality Picture
- Signal Amplification for signal reliability and long length signal transmission
- Select External EDID Data
- HDCP compliant at all channels

**Technical Information**

- Frequency Bandwidth : 1.65 GHz
- Supports Resolution: Up to 1920x1080@60Hz, ATSC HDTV signal up to 1080p
- Inputs : 1 HDMI "A" TYPE Female connector
- Outputs : 10 HDMI "A" TYPE Female connector
- Signals & Connectors: Input & Output HDMI Type A Single Link Connector
- Dimensions (W\*D\*H, in) : 12.2\*5.7\*2.2 - Weight (lb) : 3.3

**Devices Available with DVI Connections**



**PERFECT FOR**

- Home Theater System Integration
- Easy switching between two digital video sources
- LED display of video source channel selections

**HDMI 4 IN, 1 OUT Switcher**

**PART #: DL-HDS41**

Liberty's HDMI Switcher allows four different digital (audio/video) sources to share one video display. Our unique switch allows easy switching between four different

digital sources using remote control unit or the manual switch in front. Perfect for home theater systems: no more hassles of manually plugging in different

HDMI or DVI Connectors to view different video sources. (e.g. DVD Player, Satellites, set-top box, games and PC)

**Main Features**

- Connects audio & video to HDMI compatible HDTV, LCD monitors or digital projectors
- Supports high resolution up to UXGA (1600\*1200) at 60Hz refresh rate, 480p, 720p, 1080i/p
- Built-in RS-232C port for remote switching control
- HDCP compliant

**Technical Information**

- Frequency Bandwidth : 1.65 GHz
- Video Resolution : Up to UXGA (1600\*1200), HD signal up to 1080i/p
- Audio Sampling rates : Up to 24bit / 192KHz
- Inputs : 4 HDMI "A" TYPE Female connector
- Outputs : 1 HDMI "A" TYPE Female connector
- Power Supply : DC 5V, 2A Power supply adapter included
- IR Remote Control Unit Included

**Devices Available with DVI Connections**

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Specifications Subject to Change



BACK

**HDMI 2 IN, 1 OUT Switcher**

**PART #: DL-HDS21**

Liberty's HDMI Switcher allows two different digital (audio/video) sources to share one video display. Our unique switch allows easy switching between

two different digital sources using remote control unit or the manual switch in front. Perfect for home theater systems, no more hassles of manually

plugging in different HDMI or DVI Connectors to view different video sources. (e.g. DVD Player, Satellites and PC)

**Main Features**

- Connects audio & video to HDMI compatible HDTV, LCD Monitors or Digital projectors
- Supports high resolution upto 1920 x 1080 at 60Hz, HDTV - 480p, 720p, 1080i/p
- HDCP compliant

**Technical Information**

- Frequency Bandwidth : 1.65 GHz
- Supports Resolution : Upto 1920x1080@60hz, HD signal up to 1080p
- Audio Sampling rates : Upto 24bit /192KHz
- Inputs : HDMI "A" Type Female 2 ports
- Outputs : HDMI "A" Type Female 1 port
- Power from HDMI source (pin#18 DC 5V) equipments
- Dimensions (W\*D\*H, in) : 5.9\*4.1\*1 - Weight (lb) : 3.3

**Devices Available with DVI Connections**



BACK

**HDMI 6 IN, 6-OUT Multi-Plexer**

**PART #: DL-HDM66**

Liberty's HDMI Switcher allows six different signal (audio/video) sources to be displayed on six video displays. Our unique switch allows easy switching

between six different digital sources using remote control unit or the manual switch in front. Perfect for home theater systems, no more hassles of

manually plugging in different HDMI or DVI Connectors to view different video sources. (e.g. DVD Player, Satellites and PC)

**Main Features**

- Supports 6 input to 6 output
- Digital video display system
- Home theater control system
- HDCP can be encrypted at all channels
- Various user interface using RS-232C, LAN, IR remote control and front keys

**Technical Information**

- Video Bandwidth: 3.4 GHz
- Supports Resolution: HDTV signal up to 1080p@60Hz,
- Input Channel: 6 Channels
- Output Channel: 6 Channels
- Signals & Connector Input & Output: HDMI type A female connectors
- Dimensions (W\*D\*H, in) : 15\*7.9\*1.7 - Weight (lb) : 6.6
- Power Supply: DC 12V, 4.0A
- Power Consumption: 30W

**Devices Available with DVI Connections**

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- Video Wall System
- Large LED Sign Board
- Medical Imaging Equipment
- Airplane On-board Video System
- Home Theater
- TV Broadcast Station
- Auditorium
- Conference Room Video Equipment
- Church Video System



FRONT



BACK

**PART #: DL-HDFO**

**HDMI Fiber Optic Extender**

This unique HDMI/DVI fiber optical cable system lets your digital display (Plasma TV, Digital Projectors, LCD Monitors, HDTV, etc.) extend be located up to 330 ft. (100 meters) away from the video and audio sources based on

using the HDMI or DVI standard. Our patented optical conversion technology enables noise-free and high-res (up to UXGA or 1080p) extension up to 330 ft. Ideal for fishing through small conduits or other openings as the connectors

are detachable from the device (requires only 1/2 inch opening) are much smaller than the DVI connectors used with our DVI-D/SL-FO-X.

**Main Features**

- Optimized for high definition multimedia (HDCP - Compliant and true DDC line)
- Separate HDMI transmission and reception boxes are connected with LC connectors
- Ideal to run through small conduits or small openings as the transmitter and receiver are detachable from the cables (requires only 1/2 inch opening)
- Supports high resolutions up to UXGA (1,600\*1,200), 480p, 720p, 1080i, 1080p
- Extends up to 330ft.(100m) with true DDC connection
- External 12V power supply adapter included

**Technical Information**

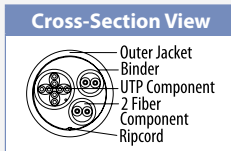
- Data Rate:1.65 GHz
- Supporting Graphic Resolution & Distance: Up to UXGA(1,600 \* 1,200)@60Hz,480p,720p,1080i and 1080p/320ft.(100m)
- Audio sampling rate: up to 24bit /192KHZ
- Connector Type: HDMI "A" type / LC / RJ-45 Connector
- Power Consumption: Transmitter 1.1 Watts (Max. Size) Receiver 0.83 Watts (Max. Size)
- Optical source: 850nm Vcsel
- Optical Cable Type: 50/125 or 62.5/125 LC Multi-mode Fiber
- Power Supply : DC 12V, 3A Adapter

**Devices Available with DVI Connections**

**Structured Composite Cable For DigitalinX Fiber Optic Extender**



Liberty Advantage



500 ft. Spool

**Jacketed Cable**

- All Cables UL Listed NEC Type CMG
- Flexible PVC Jacket
- Enhanced Category 5E Cables (350 MHz)
- Sequential Footmarks
- Separate Multimode Fiber Optic Cables

Structured Cable							
AWG Center Conductor	NOM OD Dielectric (Inches)	Shield Construction	NOM Jacket (Inches)	NOM OD (Inches)	NOM Capacitance (Pf/ft)	NOM Velocity of Propagation	Part #
							<b>DL-1N4F</b>
<b>CONSTRUCTION</b>							
24 AWG (4 Pair) Solid BC	.008 PE		.022 PVC	.210	17	72%	<b>Element 1</b> CAT5E (350 MHz)
62.5/125 um	900 micron			.113			<b>Element 2</b> 4 Multimode Fibers
			.030 FR-PVC	0.6			<b>Overall Construction</b>

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Specifications Subject to Change

## Fiber Optic Molded Assemblies

This unique fiber optical cable system lets your digital display (Plasma TV, Digital Projectors, LCD Monitors, HDTV, etc.) extend up

to 495 ft. (150 meters) away from the video source based on HDMI/DVI standard. Our patented optical conversion technology

enables noise-free and high res (UXGA) extension up to 495 ft. This OC model does not require any external amplifier or power supply.

A. Fiber Optic HDMI Cables		
Part Number	Connection	Standard Length (m.)
DL-HDMFO-X	HDMI Male - HDMI Male	10, 20, 30, 40, 50, 60, 70, 100

X = Standard Length

B. Fiber Optic DVI Cables		
Part Number	Connection	Standard Length (m.)
DL-DVIDFO-X	DVI-D Single Link - Single Link	10, 20, 30, 40, 50, 60, 70, 100

X = Standard Length

## Fiber Optic Custom Assembly Solutions

AV installation signals are converging with IT, voice/data and traditional command/control/communication applications increasing both complexity and the need for business partners to offer a broader set of easy-to-use solutions.

As the leader in connectivity solutions, Liberty is pleased to introduce our new fiber custom assembly product offering: Fibertron™. Fibertron provides one of the easiest custom fiber assembly solutions to help you manage convergence in your marketplace.

Fibertron's team of skilled technicians and application engineers provide solutions that reduce your in-field labor headaches and guarantee flawless performance.

No matter how complex or simple your installation needs are, Fibertron has the expertise to provide you with the right products and information for both your fiber optic custom cable assembly and connector needs.

Quality and reliability are the foundation of Liberty's custom fiber assembly product offering. Every custom fiber assembly component is put through both microscopic and optical testing to ensure that it meets or exceeds industry standards. Fibertron's labeling techniques provide a clear and secure label that is easy to read and stays in place.

If you are working on an installation that calls for fiber assemblies, or are thinking about bidding on one, contact your Liberty Territory Manager today. They can help you plan and produce custom fiber assemblies that will keep you both competitive and profitable.

### Custom patch Cords

- Available in any length
- Simplex and duplex jumpers and pigtails
- Unparalleled selection of connector types
- Standard PC polish, Ultra-PC polish and Angled PC available
- Corning Gold™ assemblies available

### Multi-Fiber Cable Assemblies

- Available in any length
- 50/125, 62.5/125, 100/140 or single mode cable available
- Pulling sheaths



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# DIGITAL SOLUTIONS For The AV Professional

## DigitaLinx™ Pure Performance HDMI® Cable

Liberty's new DigitaLinx™ pure-performance HDMI cables are designed to reflect the same image quality you see in your high-definition display. This cable provides ultimate digital performance with flawless transmission of HDMI 1.3 signals up to 1080p and beyond.

The look and feel of the cable is enhanced by a braided fabric sheath jacket, and easy to grab plugs; making this cable both aesthetically stunning and easy to install. Available in 1 and 2 meter lengths, this cable offers high-quality performance at a very competitive price.

**NEW**



### DigitaLinx™ Pure Performance HDMI® Cable

Part #	Length (meter)
DLX5-HD-1M	1
DLX5-HD-2M	2

## Molded High-Definition Multimedia Interface (HDMI®) Cables

With the ability to run multi-channel video, audio and control down one cable, Liberty's HDMI cables offer the ultimate digital solution. Design details include a HDMI connector, 28 AWG conductors and HDCP and EDID compliant. Liberty also offers a HDMI to DVI breakout cable to connect A/V devices that might use the two different digital interface connections.


**In-Wall Rated.**



**See Page 2**


20, 25, 30 and 35 meter HDMI Cables must be used with a DigitaLinx HDMI Repeater.

### A. HDMI Cable

Part Number	Connection	Standard Length (meters)	
E-HDM-M-X	HDMI Male to HDMI Male	1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20*, 25*, 30*, 35*	

X = Standard Length

### B. HDMI to DVI

Part Number	Connection	Standard Length (meters)	
E-HDM-DVI-X	HDMI Male to DVI Male, Breakout	1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20	


X = Standard Length

## Molded Digital Video Interface (DVI) Cables

High Performance at Highly Competitive Prices. Liberty meets the stringent demands of Digital Video Interface (DVI) standards in both copper and fiber optic platforms with a range of high performance products. From sleek, elegantly designed male-to-male DVI assemblies to DVI to BNC breakout cables for projector installations, to high-speed and long-distance DVI signal transmission, Liberty DVI cable products meet exacting industry standards, while offering you highly competitive pricing.


**In-Wall Rated.**

### A. DVI Male to DVI Male Single Link

Part Number	Connection	Standard Length (meters)	
E-DVIDSL-X	DVI-D/SL Male to DVI-D/SL Male	1, 2, 4, 6, 8, 10	

X = Standard Length

### B. DVI-A to 5BNC Breakout

Part Number	Connection	Standard Length (meters)	
E-DVI/A-5BNCF-X	DVI-A Male to 5 BNC Female, Breakout	1, 3	

X = Standard Length

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**COMPLETE DIGITAL SOLUTIONS: DEVICES AND CABLE**

**4 MEGA WAREHOUSES**

**Nation-Wide Ground Delivery in 2 Days**