

A Flexible Integrated Solution for  
Video Audio and Control Application



**Cuanbo**  
Signal Connection and Management



>Cuanbo founded in Beijing  
>Cooperating with Opticis

**2006**

>Beijing Olympic Games Opening  
Ceremony projection system

**2007**

>Releasing HD Distributor  
>Releasing Piping DVI cable

**2008**

>Establishing Shenzhen R&D center

**2009**

>Releasing China' s first HD Multi video Matrix  
>Releasing HD video player  
>Winning the top 10 New Enterprise

# About Us

Founded in 2006, Cuanbo Tech Co., Ltd started as Extender and Cable Manufacturer. With 7 years continuous effort, we growing up into a professional company which combine R&D, Manufacture, Marketing, Sales and After-sales service divisions together in the Audio and Video industry. Our products have included Matrix Switcher, Fiber Optic and Cat Extender, Splitter, Converter and Cable which related to DVI/ HDMI/ HDBaseT/ SDI/ Analog technology.

Currently Cuanbo is one of the most well know Brand in Chinese AV installation market. Most dealer and end user know us for our product use in Olympic game project, World Expo project and numerous meeting rooms project of Government and Army. Most dealer and end user know us for we are the first company release DVI extension cable in 2007, the first company release Multi video modular matrix in 2009 and the first company release HDBaseT modular matrix with remote power and control in 2012 and the first company release mini HDMI 4k\*2k fiber kit in 2013 .

## Enterprise Qualification



- >Shanghai World Expo China Pavilion's DVI fiber optic transmission system
- >Xi'an International Horticultural Exposition DVI fiber optic transmission system

**2010**

**2011**

- >Releasing SDI Matrix
- >Shenzhen Universiade DVI fiber optic transmission system
- >Establishing Shanghai Office

- >Establishing Shenyang Office
- >Releasing Multimedia Transmission Platform
- >Releasing Multi-video series Matrix Switcher
- >Be awarded of top 10 HD Multi-video Matrix

**2012**

**2013.....**

- >Establishing Shenzhen Headquarters



## R&D

Cuanbo owns a united, enterprising, innovative, realistic and efficient R&D team that lays a solid foundation for development of the product-line. There are many elites from varieties of careers, project managers who have much managerial experience, RD engineers who have deeply developed experience at embed software, FPGA , hardware design, layout and mechanic and product managers who deeply know the requirements of customers and guide it into designing for a new product. We formed a high quality and high-effective service team that proficient at the management method of researching project, designing of new products and product realization. The team is made of more than 40 staff and most of them are undergraduates and have much experience in developing AV products.

## Sales Team

We have built a powerful sales team. With the establishing of Beijing, Shanghai, Shenyang ,Hangzhou, Chengdu, Xi'an mainland Sales Center and Shenzhen International Trade Division, we have expanded our market all over the world.

## Technical Support

We are very technical oriented and can offer a whole technical support from design, research, production to maintenance. With several years efforts and experience accumulation, we are able to meet your needs and become your reliable partner.

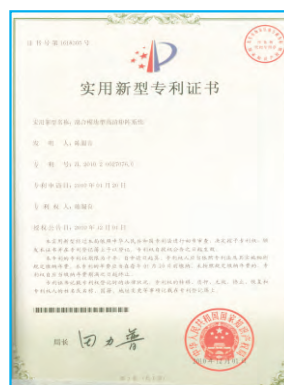
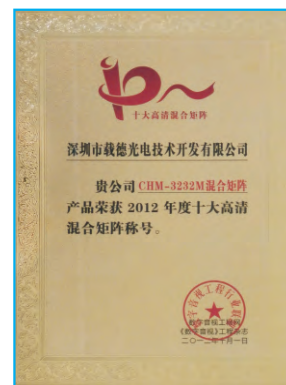
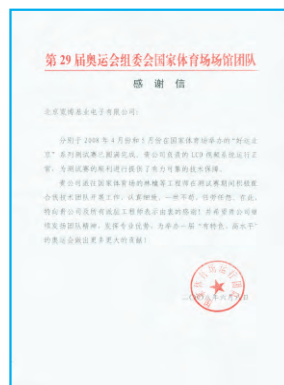
## Production and Quality Control

Executing orders quickly, providing reliable and stable products to customers and shipping on time is our tenet. While our policy is to insist on optimizing working method and procedure, satisfying the ever-changing demands fully and timely.





			
<h1>VERIFICATION</h1>			
Of Conformity Registration No. AOV191120240086-1			
Applicant	Shenzhen Zide (Shenzhen) Technology Development Co., Ltd. 20-1 Building, Jinggang innovation science and technology park, 33 Tiao, Minshen Street, Shenzhen		
Product	ICD Multi-Vision Wireless Subsystem		
Trade	purchase		
Model No.	CHN-32222A, CHN-16166A, CHN-888A, CHN-444E		
This product has been tested according to the following standard: <b>EN60950-1 16 Subpart B</b> Therefore, AOV hereby attests that the manufacturer may issue a verification of conformity. The equipment is based on a single evaluation of one sample of the above product. It does not imply an assessment of the entire production batch and does not permit the use of the test batch.			
 Representative (signature)			
			
This OCV has no legal effect if it is used to falsify or obstruct the official OCV. Notices are prohibited with			



# Market Promotion

Mar,2011	Beijing	CCBN	Jan,2011	USA	CES
Apr,2011	Beijing	InfoComm China	Jun,2012	USA	InfoComm
Jun,2011	Shanghai	Digital Signage Exhibition	Feb,2012	Netherlands	ISE 2012
Oct,2011	Shenzhen	CPSE Shenzhen	Feb,2013	Netherlands	ISE 2013
Feb,2012	Guangzhou	International LED Exhibition Guangzhou	Feb,2014	Netherlands	ISE 2014
Mar,2012	Nanjing	Secuthch Nanjing			
Apr,2012	Beijing	InfoComm CHINA 2012			
Apr,2012	Chengdu	Secuthch Chengdu			
May,2012	Shanghai	Secuthch Shanghai			
May,2012	Beijing	Palmexpor China			
Jun,2012	Shanghai	Digital Signage& Touch Tech Exhibition			
Aug,2012	Beijing	BIRTV 2012			
Dec,2012	Beijing	International Secuthch China			
Apr,2013	Beijing	InfoComm CHINA 2013			
Oct,2013	Shenzhen	CPSE Shenzhen			



# Audio Visual Series





## Multi-video Matrix Switcher

Multi-Video system announced by Cuanbo is a flexible integrated solution for signal transmission, switching and distribution in meeting room. Modular design allow Multi Video matrix to be customized for each application from 4\*4 to 32\*32. Its high bandwidth backplane ensures full compatibility with the highest resolution signals currently in use, while also providing a future-ready upgrade path for new formats with higher resolutions. I/O cards are available for HDBaseT/Fiber/HDMI/DVI/3GSDI/VGA/YPbPr/CVBS. They are HDCP compliant and EDID manageable. Also, they offer flexible RS232 control signal routing to inputs and outputs for remote device control and power up remote extender. For reliability running, matrix card-cage support redundant power supply and all cards hot swap. Matrix card-cage provide preset, recall and Key ,RS232 and TCP/IP control function.



## Features:

- ◆ Card-cage sizes are 8\*8,16\*16,32\*32;
- ◆ Wide selection of input and output cards such as HDMI/DVI/3G-SDI/VGA/YPBPR/CVBS/HDBaseT and Fiber Optic;
- ◆ Video, Power and Bidirectional RS232 control pass through matrix and send to HDBaseT extender over a Catx cable;
- ◆ Extends 1080p/60 Deep Color and 1920 x 1200 signals up to 330 feet(100 meters) over Catx and up to 4921 feet(1500 meters) over fiber optic;
- ◆ HDCP compliant;
- ◆ EDID management support EDID route among output, input and system;
- ◆ Support 16 EDID preset and update in system;
- ◆ Support 10 preset and recall;
- ◆ RS232 TCP/IP and Key control;
- ◆ Status real time display in LCD;
- ◆ Redundant power supply and all cards hot swap.

## Model Number

MVM-88  
MVM-1616  
MVM-3232

## Description

Frame 3U,4-slot frame  
Frame 7U,8-slot frame  
Frame 7U,16-slot frame

## Power

350w  
750w+750w  
750w+750w

## MVM series I/O cards

### HDMI Input and Output cards with Analog Stereo Audio

#### Features:

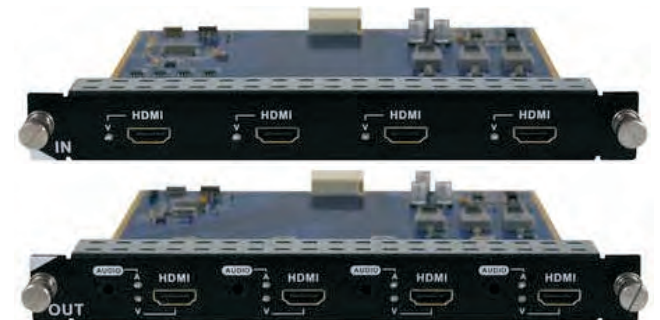
- ◆ Supports 1080p/60 Deep Color, 3D and 1920\*1200 signals;
- ◆ HDCP compliant;
- ◆ EDID management;
- ◆ Output DVI format compliant;
- ◆ Output with Analog Stereo Audio.

## Model Version

MVI-4-HDMI  
MVO-4-HDMI

## Description

Four input, HDMI  
Four output, HDMI



### HDMI Input with loop Output cards

#### Features:

- ◆ Supports 1080p/60 Deep Color, 3D and 1920\*1200 signals;
- ◆ HDCP compliant;
- ◆ EDID management;
- ◆ HDMI loop output for matrix cascade application.

## Model Version

MVI-4-HDMI2

## Description

Four input and output, HDMI



## HDBaseT Transmitter and Receiver Cards with RS-232 and Power Insertion

### Features:

- ◆ Supports 1080p/60 Deep Color, 3D and 1920\*1200 signals;
- ◆ Bidirectional RS-232 control pass through;
- ◆ HDCP compliant;
- ◆ EDID management;
- ◆ Remote power to HDBaseT transmitters and receivers.

### Model Version

MVI-4-HDBT1

MVO-4-HDBT1

MVI-4-HDBT2

MVO-4-HDBT2

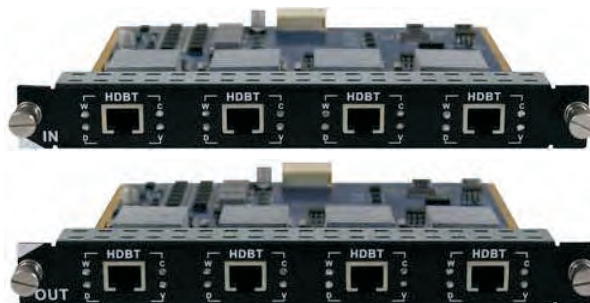
### Description

Four input, HDBaseT,70M

Four output, HDBaseT 70M

Four input, HDBaseT,100M

Four output, HDBaseT, 100M



## HDBaseT Receiver Cards with RS-232, Ethernet and Power Insertion

### Features:

- ◆ Supports 1080p/60 Deep Color, 3D and 1920\*1200 signals;
- ◆ Bidirectional RS-232 control pass through and Ethernet transmission;
- ◆ HDCP compliant;
- ◆ EDID management;
- ◆ Remote power to HDBaseT transmitters and receivers.



### Model Version

MVI-4-HDBT2E

### Description

Four input, HDBaseT, 100M with Ethernet

## Analog input cards with Analog Stereo Audio

### Embed

### Features:

- ◆ Accepts RGBHV, HD component video and composite video;
- ◆ Supports 1920\*1200 and 1080p/60 signals;
- ◆ Analog-to-digital signal conversion;
- ◆ Local analog stereo audio input with adapter cable.



### Model Version

MVI-4- VGA

MVI-4-2V1Y1C

xVxYxCx=channel quantity

V=VGA,Y=YUV,C=CVBS

### Description

Four input, VGA

Four input, VGA Four input, 2-VGA/1-YPbPr/1-CVBS

## SDI and HDMI Input cards

### Features:

- ◆ 2 channel 3G SDI and 2 channel HDMI;
- ◆ Flexible configure different ports quantity in one card



### Model Version

MVI-4-2S2H

### Description

Four input,2-3G SDI/2-HDMI



## Analog and HDMI Input cards

### Features:

- ◆ 2 channel VGA and 2 channel HDMI;
- ◆ Flexible configure different ports quantity in one card.

### Model Version

MVI-4-2V2H

### Description

Four input, 2-VGA/2-HDMI



## 3G SDI Input cards

### Features:

- ◆ Support the signal standard of SMPTE-259/274/292/296/372/424/425;
- ◆ Support re-clock loop output;
- ◆ Auto equalization with signal input;
- ◆ Support HD 120m and 3G 80m.

### Model Version

MVI-4-3G SDI

### Description

Four input, 3G SDI



## DVI Input and Output cards

### Features:

- ◆ Support 1080p/60 Deep Color and 1920\*1200 signals;
- ◆ HDCP compliant;
- ◆ EDID management;

### Model Version

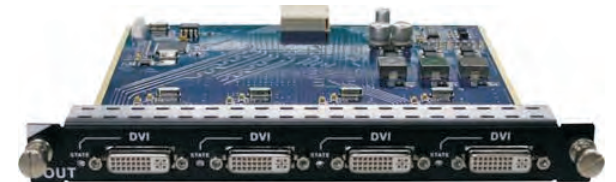
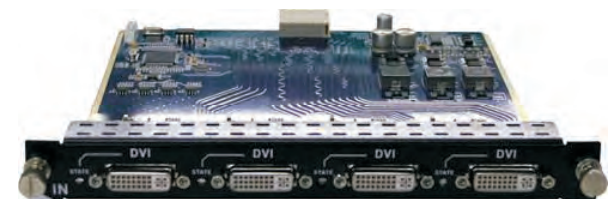
MVI-4-DVI

MVO-4-DVI

### Description

Four input, DVI

Four output, DVI



## DVI Seamless Scaler Output card

### Features:

- ◆ Support 1080p/60 Deep Color;
- ◆ Output resolution selectable;
- ◆ EDID management;
- ◆ Seamless switching effect.

### Model Version

MVO-4-DVI-S

### Description

Four output, DVI



## DVI Optic Input and Output cards

### Feature:

- ◆ Support 1080p/60 Deep Color and 1920\*1200 signals;
- ◆ EDID management;
- ◆ Multi-mode and single mode fiber;
- ◆ Working with CDL-202.

### Model Version

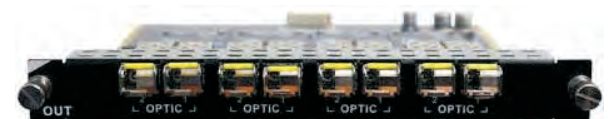
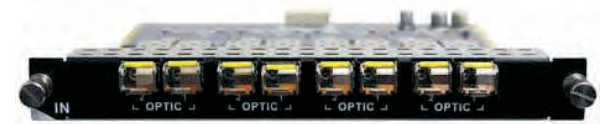
MVI-4-OPTIC-D

MVO-4-OPTIC-D

### Description

Four input, OPTIC

Four output, OPTIC



COMING SOON

## HDMI Optic Input and Output cards

### Feature:

- ◆ Support resolution 1080p@60Hz and HDMI 3D;
- ◆ EDID management;
- ◆ HDCP compliant;
- ◆ Working with MVO-H-TR.

### Model Version

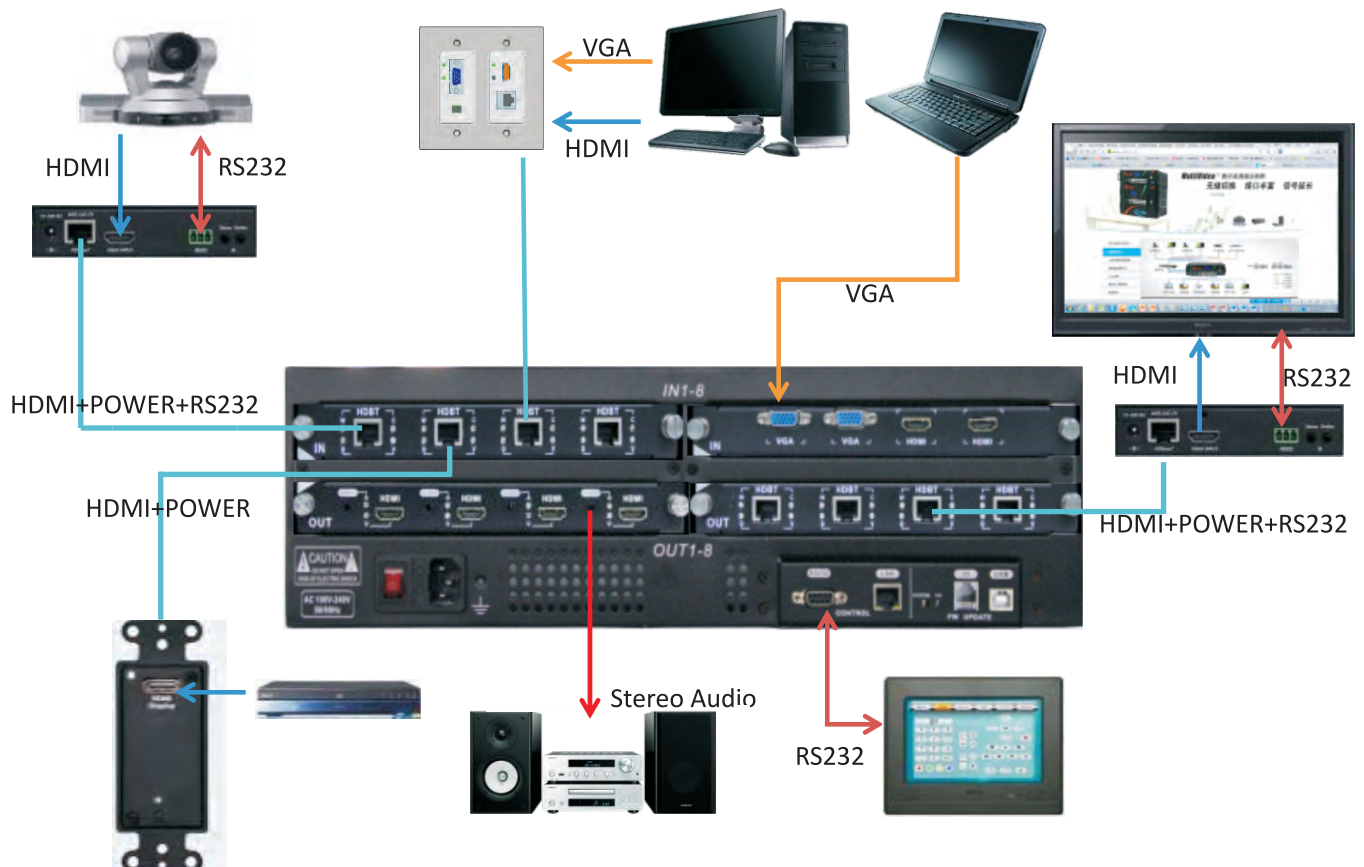
MVI-4-OPTIC-H  
MVO-4-OPTIC-H

### Description

Four input, OPTIC  
Four output, OPTIC

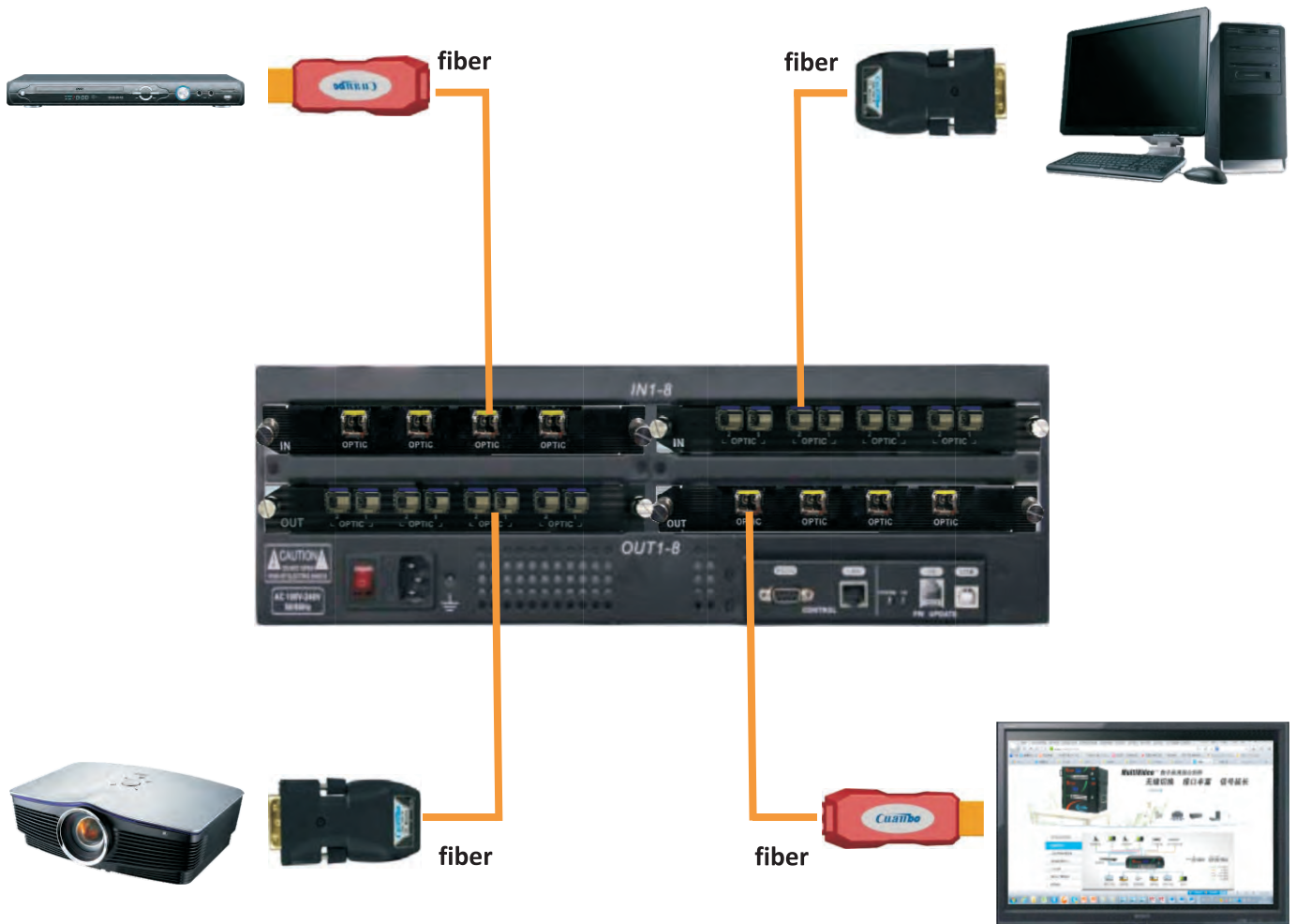


## Meeting Room Application



1. One matrix solve different signal input and output no external converter requirement;
2. Remote power up extender and wall plate by matrix;
3. Control system send control command to the camera and TV pass through matrix and by one CAT6 Cable;
4. One Cat6 cable solve Video Audio Power and Control signal transmission.

## HDMI&DVI Optical Matrix Application

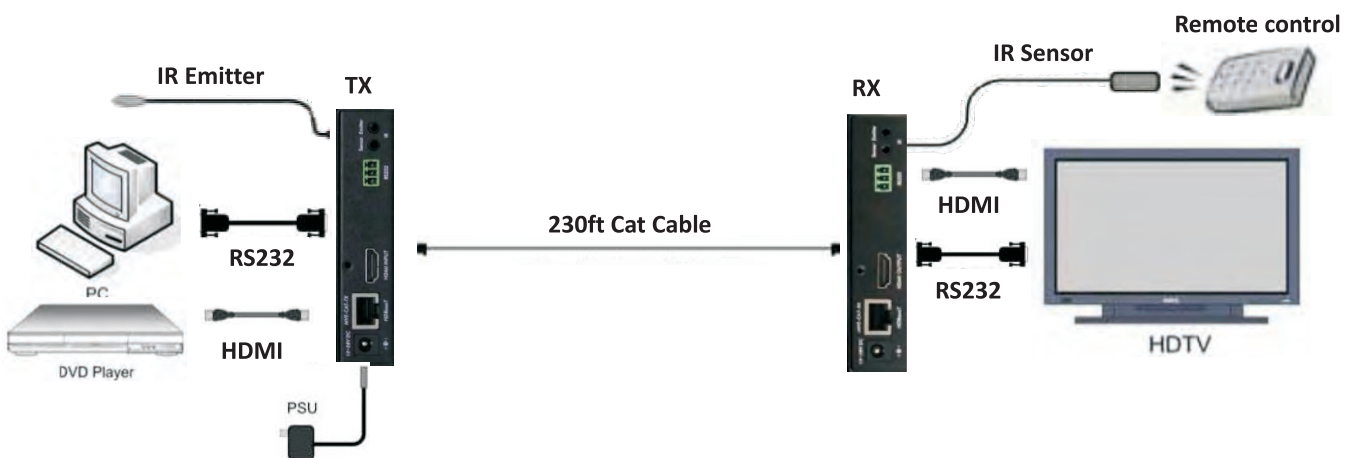




## 230ft HDBaseT Extender MVE-CAT-TR-S1

### Description:

The MVE-CAT-TR-S1 is part of Cuanbo's expanding Multi Video HDBaseT Cat Extender. Single side connections for HDMI, Control and Power provide a cleaner wiring and rack mounting solution. The design allows the system to be powered via an AC adapter from either side. With a single CAT 5e/6/7 cable, the MVE-CAT-TR-S1 can go up to 230ft, 1080p@60Hz 48bit color depth with bi-directional RS-232,IR.



### Features:

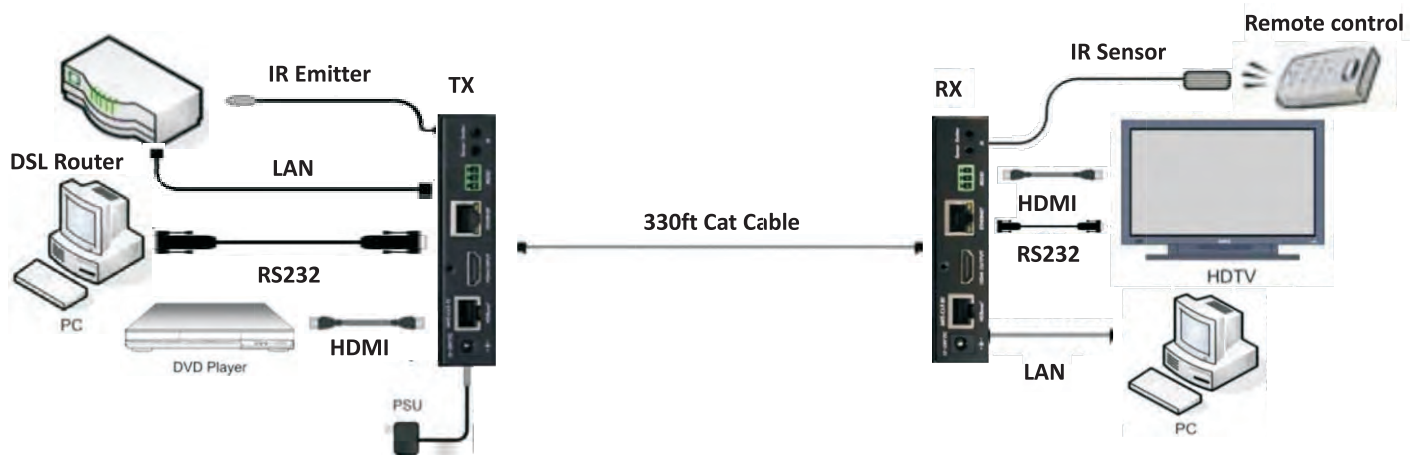
- ◆ Transmit HDMI up to 1080p@60Hz 48bit 230ft over one Cat 5e/6/7 cable;
- ◆ Support HDMI 4K x 2K and 3D;
- ◆ HDCP Compliant;
- ◆ All connectors on one side for easier installation;
- ◆ Bi-directional RS-232&IR;
- ◆ Power both units from TX or RX side with wall power supply(POL);
- ◆ Status LED for all connections on front.

Video	
HDMI Compliance	HDMI 3D
HDCP Compliant	Yes
Distance	230ft [70m] on 1080p@60Hz
Max Resolution	4K x 2K
Color Depth	48bit
Connectors	
TX Connectors	(1) HDMI in, (1)Cat,(2)IR,(1)RS232
RX Connectors	(1) HDMI out, (1) Cat,(2)IR,(1)RS232
Mechanical	
Dimensions	111 x75 x25 mm(L/W/H)
Weight	1.06lbs[480g]
Mounting	Wall mounting tabs (included)
Power	
Power Supply	12V1A
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]

## 330ft HDBaseT Extender MVE-CAT-TR-S2

### Description:

The MVE-CAT-TR-S2 is part of Cuanbo's expanding Multi Video HDBaseT Cat Extender. Single side connections for HDMI, Control, Ethernet and Power provide a cleaner wiring and rack mounting solution. The design allows the system to be powered via an AC adapter from either side. With a single CAT 5e/6/7 cable, the MVE-CAT-TR-S2 can go up to 330ft, 1080p@60Hz 48bit color depth with bi-directional RS-232,IR&LAN.



### Features:

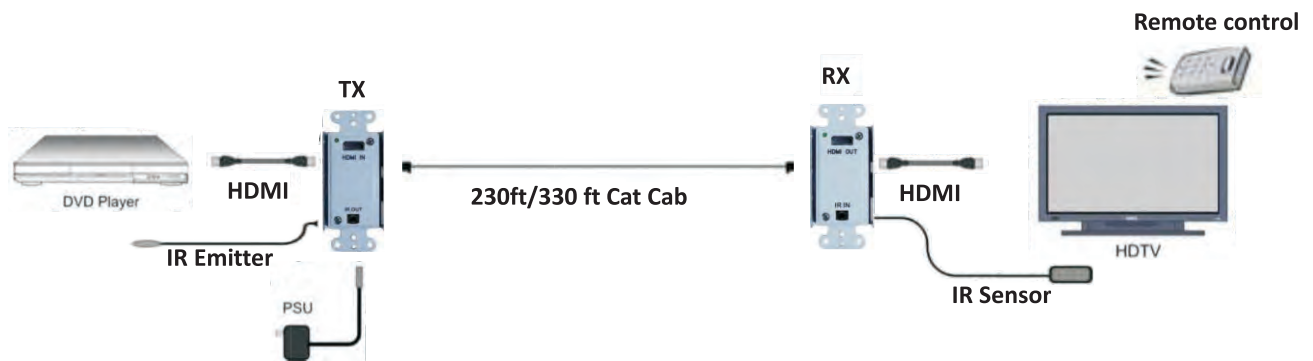
- ◆ Transmit HDMI up to 1080p@ 60Hz 48bit 330ft over one Cat 5e/6/7 cable;
- ◆ Support HDMI 4K x 2K and 3D;
- ◆ HDCP Compliant;
- ◆ All connectors on one side for easier installation;
- ◆ Bi-directional RS-232,IR&LAN;
- ◆ Power both units from TX or RX side with wall power supply(POL);
- ◆ Status LED for all connections on front.

Video	
HDMI Compliance	HDMI 3D
HDCP Compliant	Yes
Distance	330ft [100m] on 1080p@ 60Hz
Max Resolution	4K x 2K
Color Depth	48bit
Connectors	
TX Connectors	(1) HDMI in, (1)Cat,(1)Lan,(2)IR,(1)RS232
RX Connectors	(1) HDMI out,(1)Cat,(1)Lan,(2)IR,(1)RS232
Mechanical	
Dimensions	111 x75 x25 mm(L/W/H)
Weight	1.06lbs[480g]
Mounting	Wall mounting tabs (included)
Power	
Power Supply	12V1A
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]

## HDBaseT Wall Plate MVP-H-TR-S1/S2

### Description:

The MVP-H-TR is part of Cuanbo's expanding Multi Video HDBaseT Cat wall plate. It provide a cleaner wiring solution for HDMI, IR and Power transmission. The design allows the system to be powered via an AC adapter from either side. With a single CAT 5e/6/7 cable, the MVP-H-TR can go up to 230ft/330ft, 1080p@60Hz 48bit color depth with Unidirectional IR.



### Features:

- ◆ Transmit HDMI up to 1080p@60Hz 48bit 230/330ft over one Cat 5e/6/7 cable;
- ◆ Support HDMI 4K x 2K and 3D;
- ◆ HDCP Compliant;
- ◆ Unidirectional IR;
- ◆ Power both units from TX or RX side with wall power supply(POL);
- ◆ Status LED for all connections on front;
- ◆ US 1 GANG Decora and European standard.

### Model:

**70M:** MVP-H-TR-S1  
**100M:** MVP-H-TR-S2

Video	
HDMI Compliance	HDMI 3D
HDCP Compliant	Yes
Distance	230/330ft on 1080p@60Hz
Max Resolution	4K x 2K
Color Depth	48bit
Connectors	
TX Connectors	(1) HDMI in, (1)Cat,(1)IR out
RX Connectors	(1) HDMI out, (1) Cat,(1)IR in
Mechanical	
Dimensions	US:1 GANG European: 86 x 86 mm
Weight	0.49lbs[220g]
Power	
Power Supply	12V1A
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]

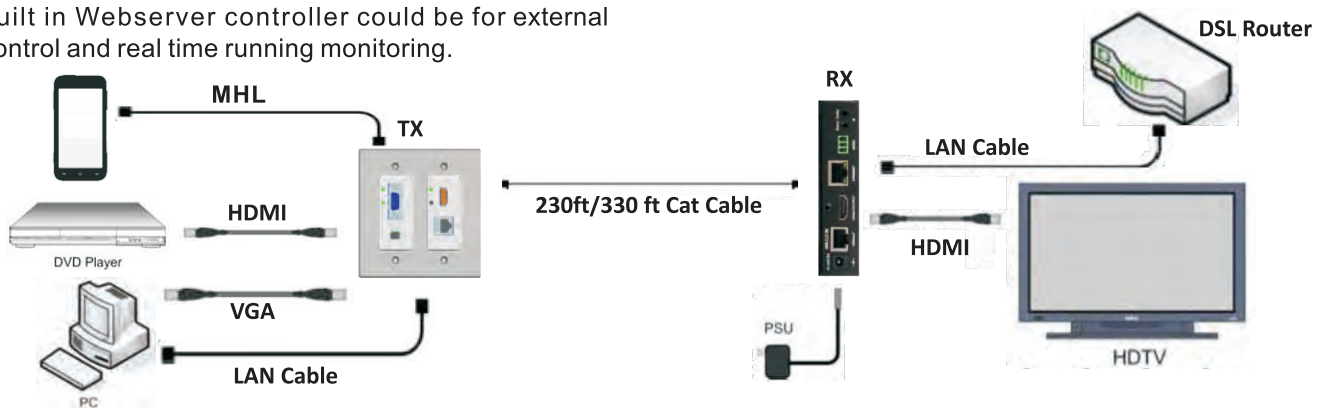
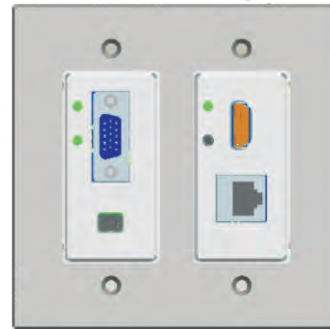


## HDBaseT Wall Plate MVP-VH-TS1/S2

### Description:

The MVP-VH-T is part of Cuanbo's expanding Multi Video HDBaseT Cat wall plate. The MVP-VH-T is a 2 gang multi-input Decora style wall plate with HDBaseT CAT extension. Its ability to convert VGA with audio to HDMI locally and transmit the signal up to 230/330ft sets this unit apart from the competition. The sources are selectable with the buttons on the wall plate, or remotely via RS-232 commands sent through the matching receiver device (MVE-CAT-RX, MVM Matrixes, etc). In addition, the MVP-VH-T has a LAN port for connection to the network without requiring a separate wall plate and it could be powered by remote Matrix, receiver or local AC adapter. Most important, it's built in Webserver controller could be for external control and real time running monitoring.

COMING SOON



### Features:

- ◆ Transmit VGA with Audio or HDMI/ MHL up to 1080p@60Hz 36bit 230/ 330ft over one Cat 5e/6/7 cable;
- ◆ Support HDMI 4K x 2K and 3D;
- ◆ Support MHL 1080p;
- ◆ HDCP Compliant;
- ◆ Button or RS232 control signal switching ;
- ◆ 1 LAN Pass-through Connector;
- ◆ 1 LAN for external control;
- ◆ Built in Webserver Controller;
- ◆ Remotely or Locally Powered;
- ◆ Status LED for all connections on front;
- ◆ US 2 GANG Decora and European standard.

### Model:

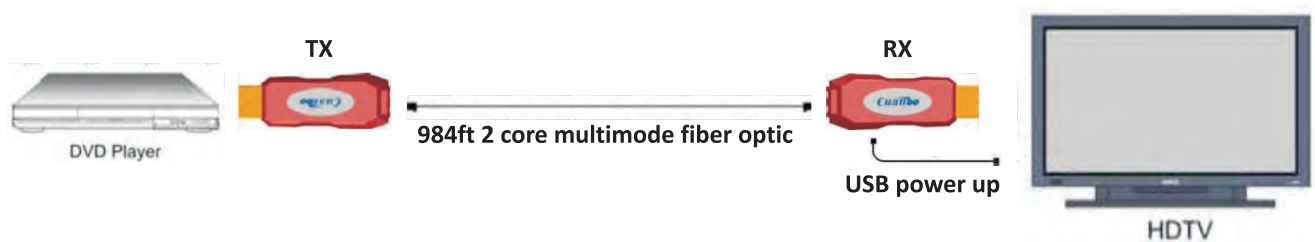
**70M: MVP-VH-T-S1**  
**100M: MVP-VH-T-S2 with Ethernet**  
**100M: MVP-VH-TW-S2 with Ethernet and Webserver Controller**

Video	
HDMI/MHL Compliance	HDMI/MHL 3D
VGA Compliance	VESA
HDCP Compliant	Yes
Distance	230/330ft on 1080p@60Hz
Max Resolution	HDMI:4K x 2K MHL:1080p
Color Depth	HDMI:36bit MHL:24bit
Connectors	
Connectors	(1) HDMI/MHL in,(1)VGA, (2)LAN,(1)DC3.5,(1)Cat
Mechanical	
Dimensions	US:2 GANG European: 172 x 86 mm
Weight	0.49lbs[220g]
Power	
Power Supply	12V1A
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]

# 4K x 2K HDMI Mini Fiber Optical Extender MVO-H-TR

## Description:

MVO-H-TR is a new member of Cuanbo's expanding Multi Video HDMI Fiber Optical Extender. The MVO-H-TR powerful design provides usability and features not found anywhere else. Simple connections for HDMI, Fiber and power get from device's USB port provide a cleaner wiring solution. With a 2 core Multimode OM3 LC fiber, the MVO-H-TR can go up to 984ft 4k x 2k.



## Features:

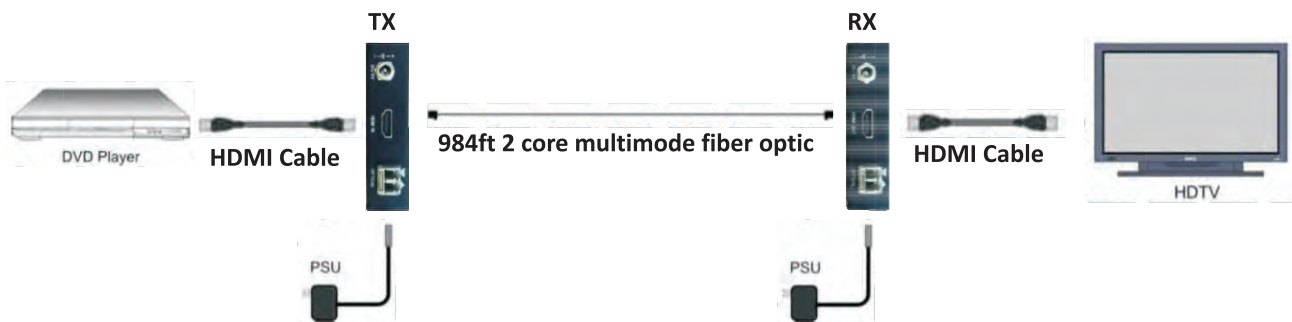
- ◆ Transmit HDMI up to 4k x 2k 984ft over one 2 core OM3 multi-mode fiber;
- ◆ Supports 4K x 2K & HDMI 3D;
- ◆ HDCP Compliant;
- ◆ Get power from device USB port;
- ◆ Small, concise, directly connect to HDMI interfaces of source and display devices.

Video	
HDMI Compliance	HDMI 3D
HDCP Compliant	Yes
Distance	984ft [300m]
Max Resolution	4K x 2K
Color Depth	48bit
Connectors	
TX Connectors	(1) HDMI in, (2)LC
RX Connectors	(1) HDMI out, (2) LC
Mechanical	
Dimensions	66 x 24 x 11mm (L/W/H)
Weight	0.084lbs [38g]
Power	
Power Supply	5V1A
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]

# 4K x 2K HDMI Fiber Optical Transceiver CHL-602

## Description:

CHL-602 is a new member of Cuanbo's Fiber Optical transmission family. Simple connections for HDMI, Fiber and Power provide a cleaner wiring and rack mounting solution. With a 2 core Multimode OM3 LC fiber, the CHL-602 can go up to 984ft 4k x 2k.



## Features:

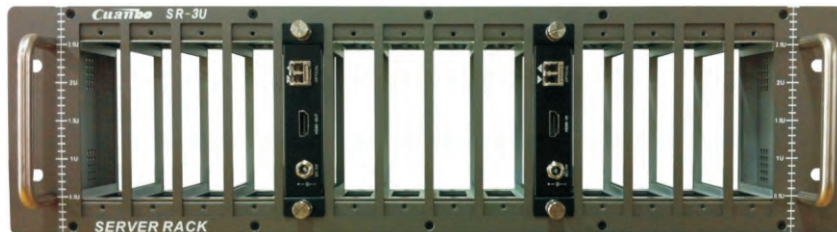
- ◆ Transmit HDMI up to 4k x 2k 984ft over one 2 core multi-mode fiber;
- ◆ Supports 4K x 2K & HDMI 3D;
- ◆ HDCP Compliant;
- ◆ All connectors on one side for easier installation;
- ◆ Status LED for all connections on front;
- ◆ Various mounting options.

Video	
HDMI Compliance	HDMI 3D
HDCP Compliant	Yes
Distance	984ft [300m]
Max Resolution	4K x 2K
Color Depth	48bit
Connectors	
TX Connectors	(1) HDMI in, (2) LC
RX Connectors	(1) HDMI out, (2) LC
Mechanical	
Dimensions	88 x 60 x 23mm(L/W/H)
Weight	0.87lbs [395g]
Mounting	Wall mounting tabs (included) Rack mount bracket (optional)
Power	
Power Supply	5V 1A DC
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]



## CHL-RK3 Rack mount of CHL-602

The CHL-RK3 allows you to fit up to 14 CHL-602 in a 3RU rack space. With all connectors on the rear of the CHL-602 unit, this allows for a clean, organized rack installation.



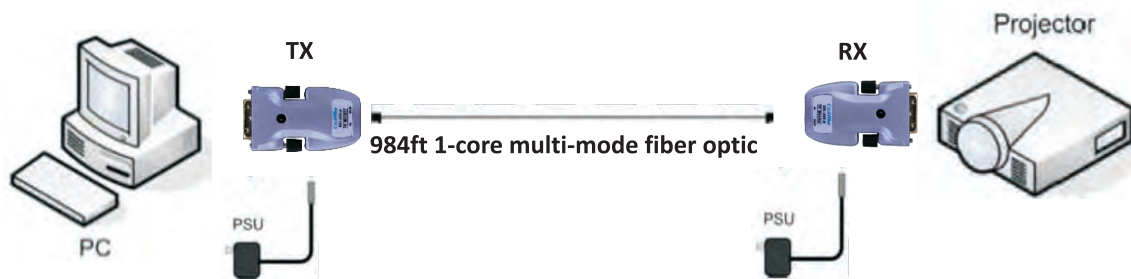
### Features:

- ◆ Holds up to 14 CHL-602 extenders;
- ◆ Vertical unit mounting and cutouts allow for optimal ventilation;
- ◆ Perfect solution for a clean rack installation.

# DVI fiber optic Extender CDL-209

## Description:

The CDL-209 is part of Cuanbo's fiber optic transmission family. Simple connections for DVI and Fiber provide a cleaner wiring solution. With one multi-mode OM3 fiber optic, the CDL-209 can go up to 984ft (300 m), 1920\*1200 @60Hz&1080p.



## Features:

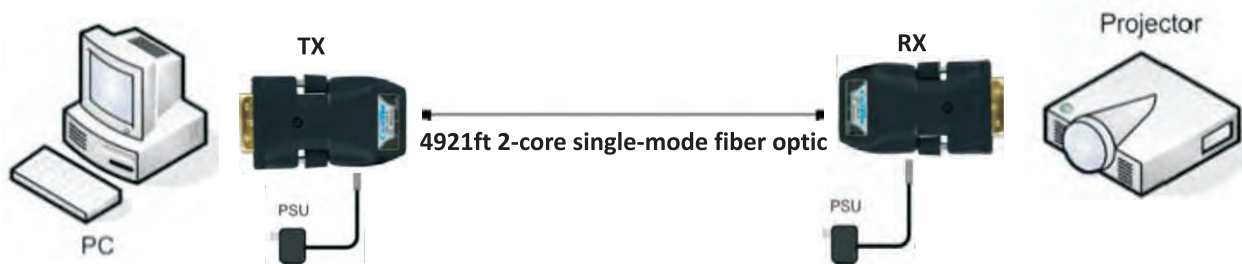
- ◆ Single multi-mode OM3 fiber optic for transmission;
- ◆ Transmitter with EDID learning;
- ◆ The highest video bandwidth: 1.65 Gbps;
- ◆ The highest resolution: 1920×1200@ 60Hz;
- ◆ The longest transmission distance: 300m;
- ◆ Small, concise, directly connect to DVI interfaces of source and display devices.

Video	
DVI Compliance	DVI-D
HDCP Compliant	No
Distance	984ft [300m]
Max Resolution	1920*1200@60Hz
Connectors	
TX Connectors	(1) DVI in, (1) LC
RX Connectors	(1) DVI out, (1) LC
Mechanical	
Dimensions	65 x 39 x 15mm(L/W/H)
Weight	0.18lbs [80g]
Power	
Power Supply	5V 1A DC
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]

# DVI fiber optic Extender CDL-202

## Description:

The CDL-202 is part of Cuanbo's fiber optic transmission family. Simple connections for DVI and Fiber provide a cleaner wiring solution. With two single-mode fiber optic, the CDL-202 can go up to 4921ft(1500m), 1920\*1200@60Hz & 1080p.



## Features:

- ◆ Support multi-mode& single-mode fiber optic;
- ◆ Transmitter with EDID learning;
- ◆ The highest bandwidth: 1.65Gbps;
- ◆ The highest resolution:1920×1200 @60Hz;
- ◆ The longest transmission distance: 1500m;
- ◆ Small, concise, directly connect to DVI interfaces of source and display devices.

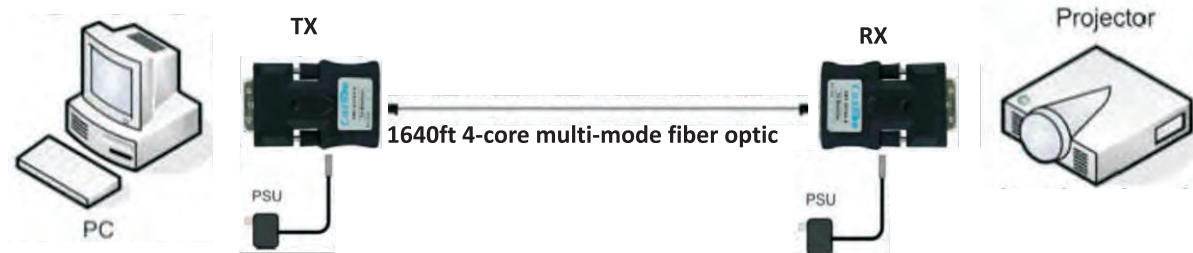
Video	
DVI Compliance	DVI-D
HDCP Compliant	No
Distance	4921ft [1500m]
Max Resolution	1920*1200@60Hz
Connectors	
TX Connectors	(1) DVI in, (2)LC
RX Connectors	(1) DVI out, (2) LC
Mechanical	
Dimensions	59 x 39 x 13mm (L/W/H)
Weight	0.066lbs[30g]
Power	
Power Supply	5V 1A DC
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]



## DVI fiber optic Extender CM1-201SA-TR

### Description:

The CM1-201SA-TR is part of Cuanbo's fiber optic transmission family. Simple connections for DVI and Fiber provide a cleaner wiring solution. With a 4 core multi-mode fiber optic, the CM1-201SA-TR can go up to 1640ft(500 m), 1920\*1200@ 60Hz&1080p.



### Features:

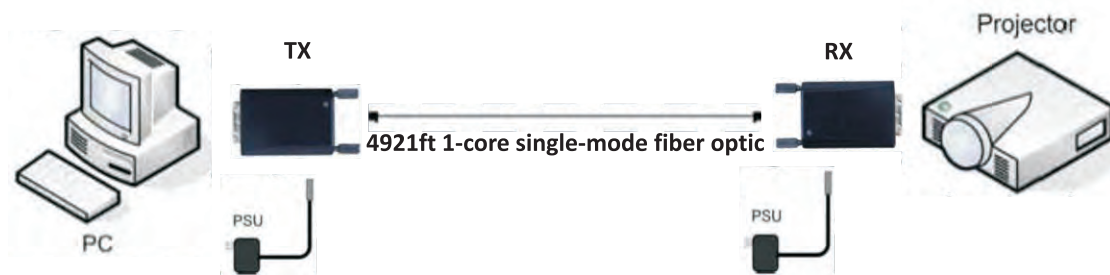
- ◆ 4 core multimode LC fiber for transmission;
- ◆ Transmitter with EDID learning;
- ◆ The highest video bandwidth: 1.65 Gbps;
- ◆ The highest resolution: 1920×1200 @60Hz;
- ◆ The longest transmission distance: 500m(OM2);
- ◆ The transmitter can read and store EDID from display;
- ◆ Small, concise, directly connect to DVI interfaces of source and display devices.

Video	
DVI Compliance	DVI-D
HDCP Compliant	No
Distance	1640ft [500m]
Max Resolution	1920*1200@60Hz
Connectors	
TX Connectors	(1) DVI in, (4) LC
RX Connectors	(1) DVI out, (4) LC
Mechanical	
Dimensions	59 x 39 x 15mm(L/W/H)
Weight	0.066lbs [30g]
Power	
Power Supply	5V 2A DC
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]

## DVI fiber optic Extender CM1-201CA-TR

### Description:

The CM1-201CA-TR is part of Cuanbo's DVI fiber optic transmission family. Simple connections for DVI and Fiber provide a cleaner wiring solution. With one single-mode fiber optic, the CM1-201CA-TR can go up to 4921ft (1500 m), 1920\*1200@60Hz&1080p.



### Features:

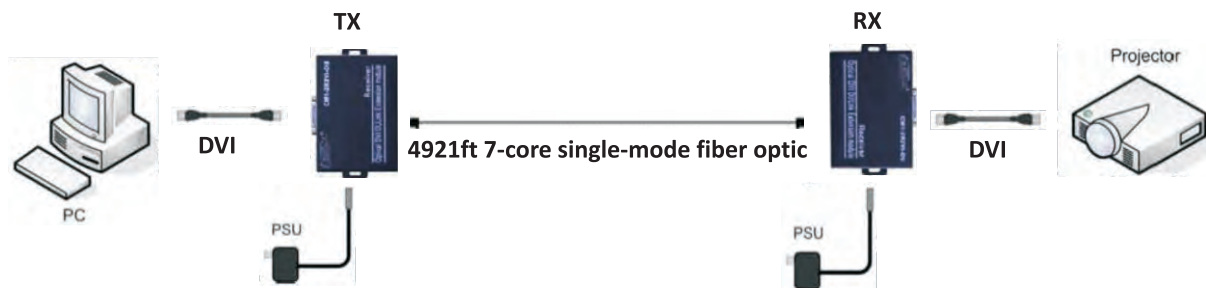
- ◆ Single single-mode fiber optic for transmission;
- ◆ Transmitter with EDID learning;
- ◆ The highest video bandwidth: 1.65 Gbps;
- ◆ The highest resolution: 1920×1200 @60Hz;
- ◆ The longest transmission distance: 400m;
- ◆ Small, concise, directly connect to DVI interfaces of source and display devices.

Video	
DVI Compliance	DVI-D
HDCP Compliant	No
Distance	4921ft [1500m]
Max Resolution	1920*1200@60Hz
Connectors	
TX Connectors	(1) DVI in, (1) LC
RX Connectors	(1) DVI out, (1) LC
Mechanical	
Dimensions	65 x 39 x 15mm(L/W/H)
Weight	0.18lbs [80g]
Power	
Power Supply	5V 1A DC
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]

## Dual Link DVI Fiber Optic Transceiver CM1-2R2VI-DU

### Description:

The CM1-2R2VI-DU is part of Cuanbo's DVI fiber optic transmission family. Simple connections for DVI and Fiber provide a cleaner wiring solution. With a 7 core single-mode fiber optic, the CM1-2R2VI-DU can go up to 4921ft (1500m), 2560\*1600@60Hz (3.3Gbps).



### Features:

- ◆ 7 core single-mode LC fiber for transmission;
- ◆ The highest video bandwidth: 3.3Gbps;
- ◆ The highest resolution: 2560×1600 @60Hz;
- ◆ The longest transmission distance: 1500m;
- ◆ The transmitter can read and store EDID from display.

Video	
DVI Compliance	DVI-D
HDCP Compliant	No
Distance	4921ft [1500m]
Max Resolution	2560*1600@60Hz
Connectors	
TX Connectors	(1) DVI in, (7) LC
RX Connectors	(1) DVI out, (7) LC
Mechanical	
Dimensions	88 x 60 x 23mm(L/W/H)
Weight	1.01lbs [460g]
Power	
Power Supply	5V 2A DC
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]



# HDMI 1:4 Splitter

## CHS-14

### Description:

CHS-14 1x4 HDMI Distribution Amplifier which the most robust, cost effective and advanced HDMI splitter solution in the market, by which the high definition video can be transmitted to 4 different locations without losing quality. CHS-14 offers the best HDMI support for HDMI splitters. It is compatible with PC resolutions up to 3D, 1080P, and also supports HDMI 1.4 and DVI 1.0. CHS-14 is suitable for high quality A/V broadcasting, digital signage and others applications.



### Features:

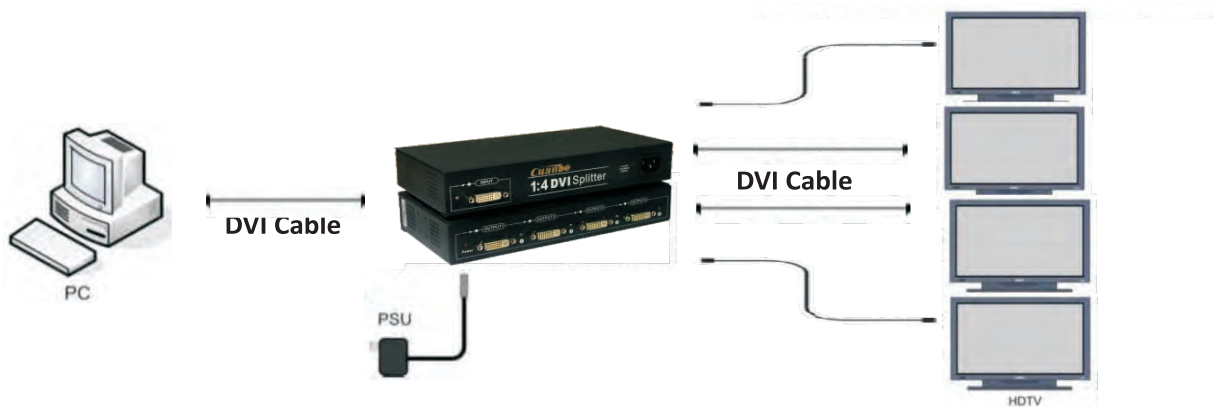
- ◆ 1 HDMI input and 4 HDMI output;
- ◆ Support HDMI 1.4 3D and DVI 1.0;
- ◆ Comply with HDCP.

Video	
HDMI Compliance	HDMI 3D,HDMI 1.4
HDCP Compliant	Yes
Distance	22.97ft [7m]
Max Resolution	1080p@60Hz
Color Depth	36t
Connectors	
Input	(1) HDMI in
Output	(4) HDMI out
Mechanical	
Dimensions	220 x 150 x 56mm(L/W/H)
Weight	0.66lbs [300g]
Power	
Power Supply	5V 1A DC
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]

## DVI 1:4 Splitter CDS-164S

### Description:

CDS-164S 1x4 DVI Distribution Amplifier which the most robust, cost effective and advanced DVI splitter solution in the market, by which the high definition video can be transmitted to 4 different locations without losing quality. CDS-164S offers the best DVI support for DVI splitters. It is compatible with PC resolutions up to 1920\*1200@60Hz, 1080P,HDTV and also supports EDID preset. CDS-164S is suitable for high quality video conference, digital signage and other applications.



### Features:

- ◆ 1 DVI input and 4 DVI output;
- ◆ The highest video bandwidth:1.65 Gbps;
- ◆ The highest resolution:1920×1200 @60Hz;
- ◆ Preset EDID in input port.

Video	
DVI Compliance	DVI-D
HDCP Compliant	No
Distance	16.4ft [5m]
Max Resolution	1920*1200@60Hz
Connectors	
Input	(1) DVI
Output	(4) DVI
Mechanical	
Dimensions	240 x 130 x 44mm(L/W/H)
Weight	2lbs [910g]
Mounting	Wall mounting tabs (included)
Power	
Power Supply	5V2A
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]

## Piping DVI Extension Cable CAB-DX-EOE

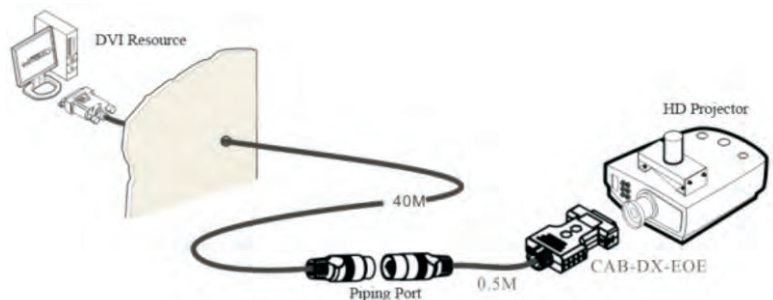
### Description:

The CAB-DX-EOE is part of Cuanbo's transmission family. Its powerful design provides usability and features not found anywhere else. Special Piping design and stable performance makes the Cable suitable for diverse application.



### Features:

- ◆ The highest video bandwidth: 1.65 Gbps;
- ◆ The highest resolution: 1920×1200 @60Hz;
- ◆ Customize length: 10m/ 15m/ 20m/ 25m/ 30m/ 35m/ 40m;
- ◆ Equalizer is embedded in DVI connector and piping design;
- ◆ Concise, directly connect to DVI interfaces of resource and display devices.



## HDMI Cable CAB-H-XXM

### Description:

The CAB-H-XXM is part of Cuanbo's HDMI cable transmission family. Stable performance makes the Cable suitable for diverse application.



### Features:

- ◆ Support HDMI 1.4 and HDCP;
- ◆ Customizing distance is: 5M/10M/ 15M/20M;
- ◆ Concise, directly connect to HDMI interfaces of resource and display devices.



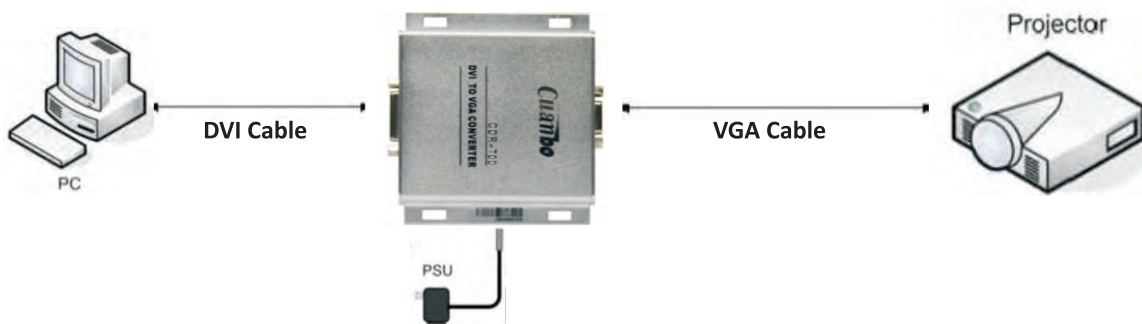


# DVI to VGA Converter

## CDR-700

### Description:

CDR-700 offers an easy and instant approach for converting DVI signal to analog signal (VGA). With this module, DVI based devices such as PC can readily connect to your VGA based devices. With such a convenience, presentations, demonstrations, or projections become easier and more cost effective.



### Features:

- ◆ 1 DVI input, 1 RGBHV/RGBS output;
- ◆ The high resolution is 1920\*1200@60Hz;
- ◆ Support EDID read and store from display.

Video	
DVI Compliance	DVI-D
Max Resolution	1920*1200@60Hz
Connectors	
Input	(1) DVI
Output	(1) VGA
Mechanical	
Dimensions	94 x 104 x 28mm(L/W/H)
Weight	0.35lbs [160g]
Mounting	Wall mounting
Power	
Power Supply	5V 1A DC
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]

# VGA with Analog Stereo Audio to HDMI Converter CVH-109A

## Description:

CVH-109A offers an easy and instant approach for converting analog PC video (VGA) with analog stereo audio to digital HDMI. With this module, VGA based devices such as PC with analog stereo audio can readily connect to your HDMI TV. With such a convenience, presentations, demonstrations, or digital signage become easier and more cost effective.



## Features:

- ◆ VGA with stereo audio to HDMI;
- ◆ Full support HDMI v1.3a;
- ◆ Resolution support 800 x 600, 1024 x 768, 1280 x 720, 1280 x 768, 1280 x 960, 1360 x 768, 1366 x 768, 1440 x 900, 1600 x 1200, 1920 x 1080.

Video	
HDMI Compliance	HDMI 1.3a
Max Resolution	1080p@60Hz
Connectors	
Input	(1) VGA
Output	(1) HDMI
Mechanical	
Dimensions	140 x 76 x 32mm(L/W/H)
Weight	0.35lbs [160g]
Power	
Power Supply	5V 1A DC
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]

# Digital Signage Series



# HDMI&RS232 Fiber Optic Transmission System

## Description:

The HDMI&RS232 fiber optic transmission system is part of Cuanbos fiber optic transmission family. Its powerful design provides usability and features not found anywhere else. The system include transmitter (CHL-1004), receiver(CHL-1001R) and repeater(CHL-1000R). Maximum transmission distance of fiber between two device is 1KM.The system is a fantastic solution for the digital signage application that extend one 1080P 60HZ HDMI source to many LCD display and control at the same time.

## Features:

- ◆ Maximum resolution is 1080P@60Hz;
- ◆ Support single and multi mode fiber, maximum distance between two device is 1 KM;
- ◆ Support RS232 for LCD control;
- ◆ Support hot plug;



CHL-1004



CHL-1000R

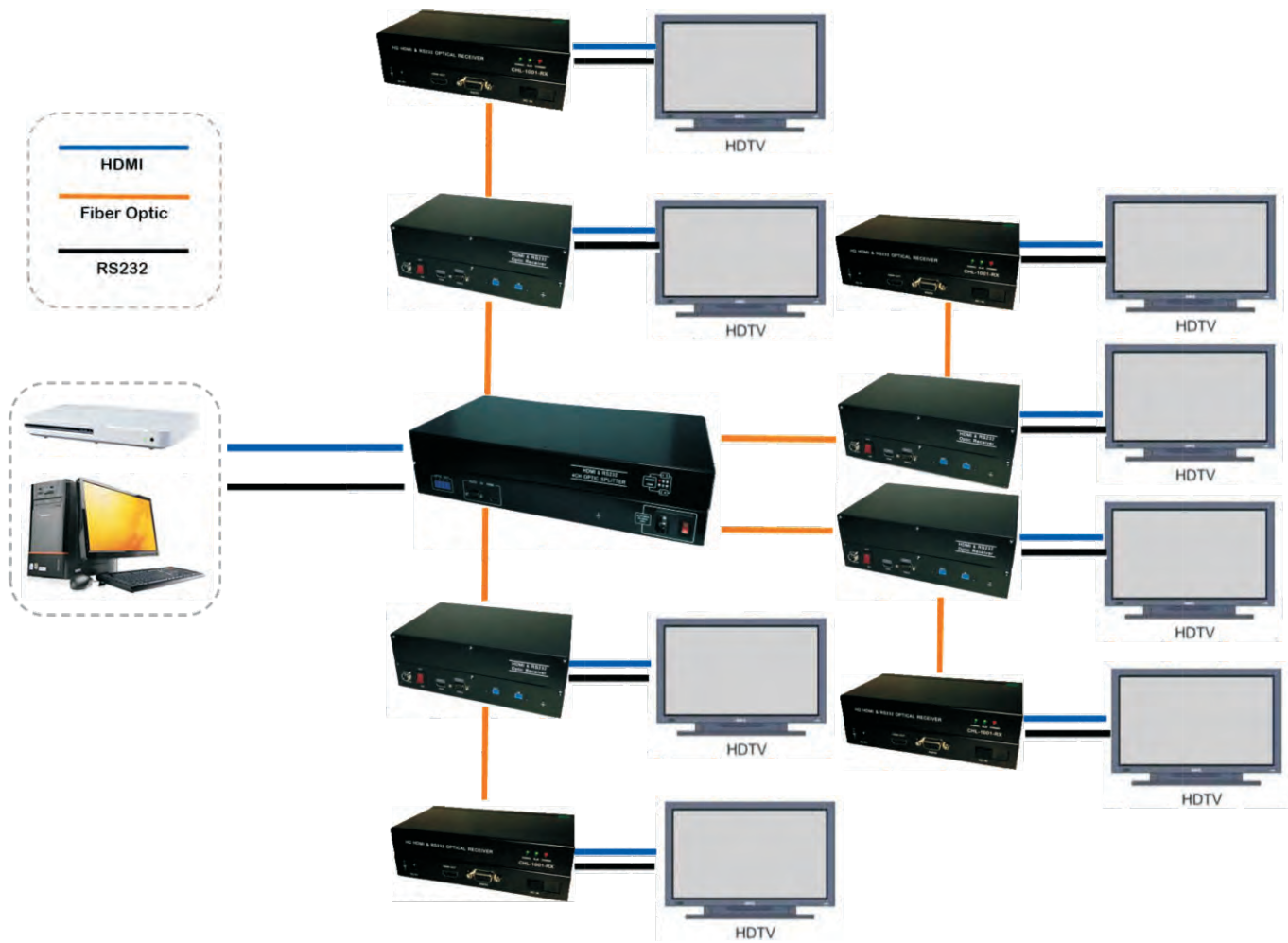


CHL-1001R

Product	Transmitter(CHL-1004)	Repeater(CHL-1000R)	Receiver(CHL-1001R)
Size	1RU	240×154×41mm	156×84×25mm
PSU	AC 110/220V 50/60Hz AC-DC 5V 4A	AC 110/220V 50/60Hz AC-DC 5V 4A	AC 110/220V 50/60Hz AC-DC 5V 4A
Maximum Power Dissipation	18W	15W	5W
Input and Output Signal	Input: 1 HDMI、1 RS232	Input: 1 LC	Input: 1 SC(SC to LC adapter fiber cable)
	Output: 4 LC	Output: 1 HDMI、 1 RS232、1 LC	Output: 1 HDMI、 1 RS232
Fiber Signal	Optical output power -13 ~ 0dBm	Input luminous sensitivity: -35 ~ 0dBm	
Resolution	480i, 576i, 480p, 576p, 720p, 1080i, 1080p (25~60Hz)		
Working Temperature	32~131°F [0~55°C]		
Store Temperature	-4~185°F [-20~85°C]		
Humidity	5~95% RH [no condensation]		



# Project Application



# Broadcast & Security Series



## 3GSDI Matrix Switcher CB-SM2400

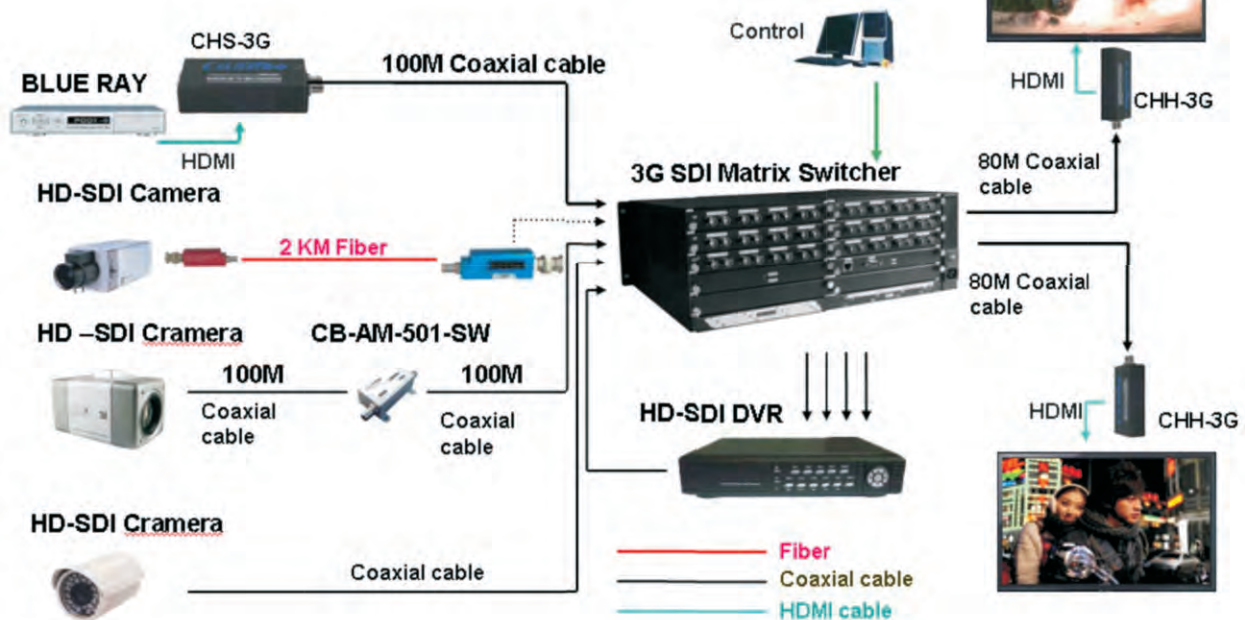


1. Modular design facilitate maintaining and updating, altogether support 24 channels 3GSDI signal switching.
2. Freely configure each channel as input or output, so you could make maximum use of all the channel resource.
3. Each 3GSDI input channel support 100M transmission distance.
4. Each 3GSDI input channel support 100M transmission distance.

5. You could easily make up a HDMI Coaxial cable transmitting and switching system by working with HDMI TO HDSDI and HDSDI TO HDMI converter; it altogether support 100M input and 100M output distance.
6. Customizable software design support status store and recall, auto timing take turns switching and other special functions you need.
7. Support front panel key board, RS232 and Ethernet control and could work with CUANBO Matrix control software or other control system.
8. 3.2 LCD realtime display switching status.
9. Meet broadcast television and HDCCTV standard.



### 3G SDI Matrix Switcher application

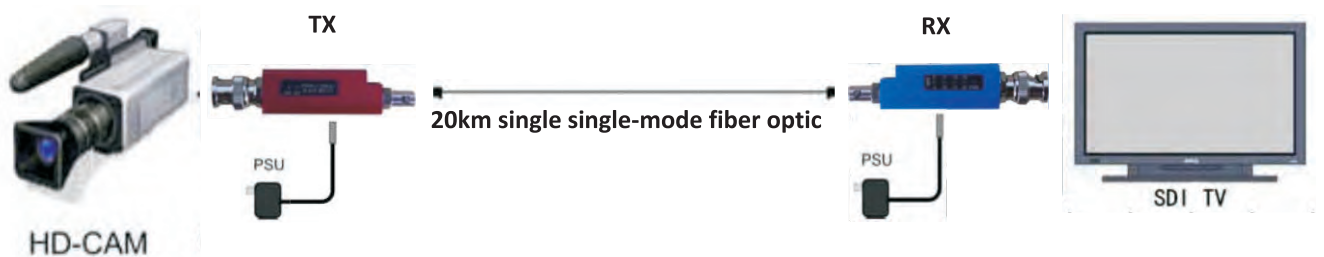




# HDSDI fiber optic Extender CHD-800/801

## Description:

The CHD-800/801 is part of Cuanbo's fiber optic transmission family. Simple connections for SDI, and fiber provide a cleaner wiring solution. With a single-mode fiber optic, the CHD-800/801 can go up to 20km, 1080p@30Hz&1.5Gbps.



## Features:

- ◆ Single-core single-mode fiber optic transmission of HD\SD SDI;
- ◆ The highest video bandwidth: 1.5 Gbps;
- ◆ The highest resolution: 1080p@30Hz;
- ◆ The longest transmission distance: 20km;
- ◆ Small, concise, directly connect to SDI interfaces of source and display devices.

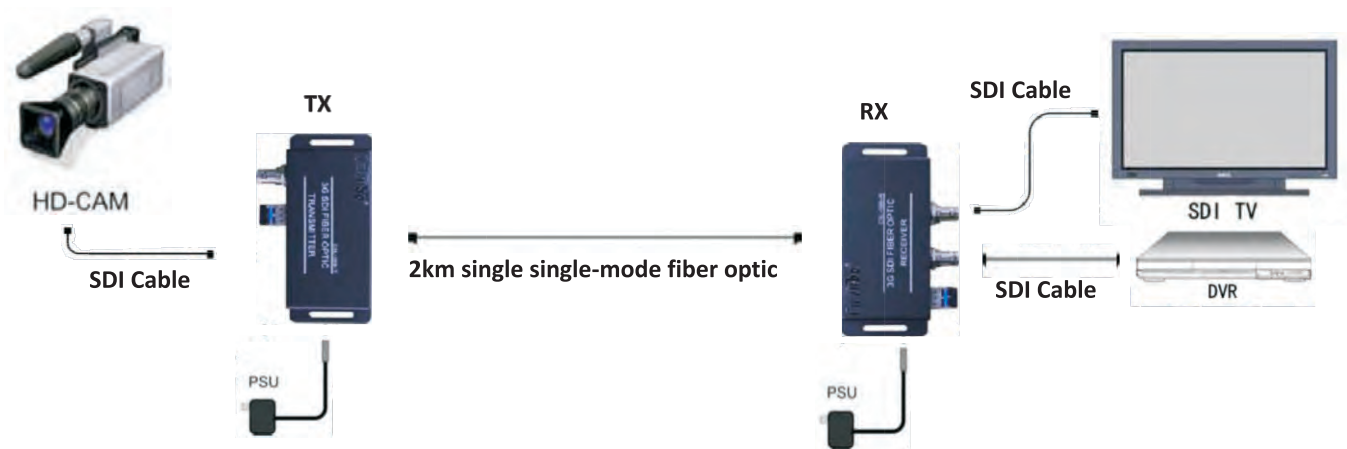
Video	
SDI Compliance	HD/SD SDI
Distance	20km
Max Resolution	1080p@30Hz
Connectors	
TX Connectors	(1) SDI in, (1)ST
RX Connectors	(1) SDI out, (1) ST
Mechanical	
Dimensions	95 x 16 x 22mm(L/W/H)
Weight	0.0013lbs[60g]
Power	
Power Supply	5-16V DC, mini USB
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]



## 3GSDI fiber optic Extender CSL-509

### Description:

The CSL-509 is part of Cuanbo's fiber optic transmission family. Simple connections for SDI and Fiber provide a cleaner wiring solution. With a single-mode fiber optic, the CSL-509 can go up to 2km, 1080p@60Hz& 3Gbps.



### Features:

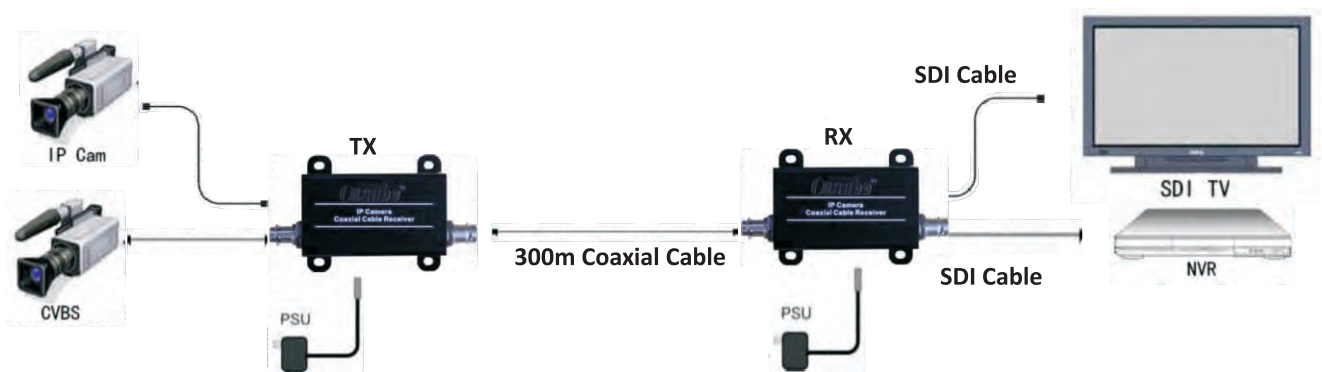
- ◆ Single multi/single-mode LC fiber for transmission;
- ◆ The highest bandwidth: 3Gbps;
- ◆ The highest resolution:1080P@60Hz;
- ◆ The longest transmission distance: 2 km(single-mode);
- ◆ Receiver support two 3GSDI output.

Video	
SDI Compliance	3GSDI
Distance	2km
Max Resolution	1080p@60Hz
Connectors	
TX Connectors	(1) BNC in, (1)LC
RX Connectors	(2) BNC out, (1) LC
Mechanical	
Dimensions	105 x 58 x 25mm(L/W/H)
Weight	0.66lbs [300g]
Mounting	Wall mounting tabs (included)
Power	
Power Supply	5V 2A DC
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]

# IP & Analog Camera to Coaxial Cable Extender CRW-901

## Description:

CRW-901 IP & Analog Camera to Coaxial Cable Extender which the most robust, cost effective and advanced transmission solution in the market, by which the IP camera and Analog video can be extended up 300m by one RG59 coaxial cable.



## Features:

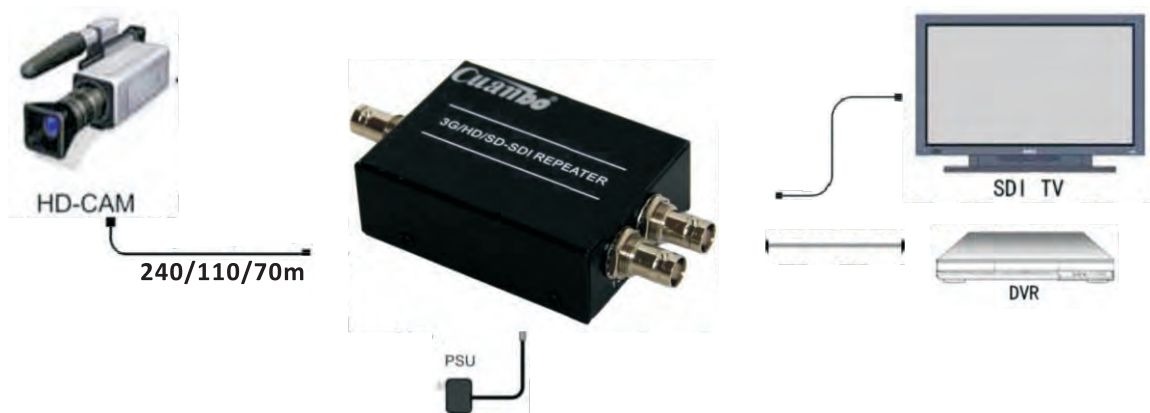
- ◆ Extend IP and Analog Video 300m by Coaxial cable;
- ◆ The upward bandwidth: 36Mbps, downward bandwidth: 12Mbps.

Video	
Signal	IP and CVBS
Distance	984ft [300m] on RG59
Connectors	
TX Connectors	(1) RJ45, (2) BNC
RX Connectors	(1) RJ45, (2) BNC
Mechanical	
Dimensions	78 x 62x 27mm(L/W/H)
Weight	0.44lbs [200g]
Mounting	Wall mounting tabs (included)
Power	
Power Supply	12V 1A DC
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]

## 3G/HD/SD SDI Repeater CSE-502

### Description:

The CSE-502 is part of Cuanbo's SDI transmission family. It's not only a repeater, but also a 1:2 splitter. With a RG59 coaxial cable, the CSE-502 can extend 3G input signal up to 70m, HD input signal 110m and SD input signal 240m.



### Features:

- ◆ 1channel input,2 channel output;
- ◆ Input with equalizer and output with cable driver;
- ◆ The longest transmission distance:  
3G: 70m on RG59;  
HD: 110m on RG59;  
SD: 240m on RG59;
- ◆ Support 3G\HD\SD-SDI input& output;
- ◆ Support broadcast standard .

Video	
SDI Compliance	3G/HD/SD SDI
Distance	3G:70m/ HD:110m/ SD:240m on RG59
Max Resolution	1080p@60Hz
Connectors	
Input	BNC
Output	BNC
Mechanical	
Dimensions	78 x 58 x 29mm(L/W/H)
Weight	0.44lbs [200g]
Mounting	Wall mounting tabs(include)
Power	
Power Supply	12V 2A DC
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]

# SDI 1:4 Splitter CSP-514

## Description:

CSP-514 1x4 SDI Distribution Amplifier which the most robust, cost effective and advanced SDI splitter solution in the market, by which the high definition video can be transmitted to 4 different locations without losing quality. It is compatible with resolutions up to 3G, 1080P, and also supports HDCCTV. CSP-514 is suitable for high quality CCTV, Broadcast TV and other applications.



## Features:

- ◆ 1 input and 4 output;
- ◆ Input with equalizer and output with cable driver;
- ◆ Support 3G/HD/SD SDI;
- ◆ The highest resolution:1080p@60Hz;
- ◆ Support HDCCTV.

Video	
SDI Compliance	3G/HD/SD SDI
Input Distance	SD:240m,HD:110m,3G:70m with RG59 cable
Max Resolution	1080p@60Hz
Connectors	
Input	(1) BNC
Output	(4) BNC
Mechanical	
Dimensions	140 x 60 x 30mm(L/W/H)
Weight	0.66lbs [300g]
Power	
Power Supply	5V 2A DC
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]



# HDMI to 3G/HD/SD SDI Converter

## CHS-503

### Description:

The CHS-503 is a professional broadcast video product capable of converting HDMI to 3GSDI, HDSDI, or SDSDI. This allows viewing of industry standard consumer and commercial HDMI video components such as video players, computers, and more on broadcast products. It has 2 channel SDI output. In addition, it support HDCCTV standard, RGB and YUV color space.



### Features:

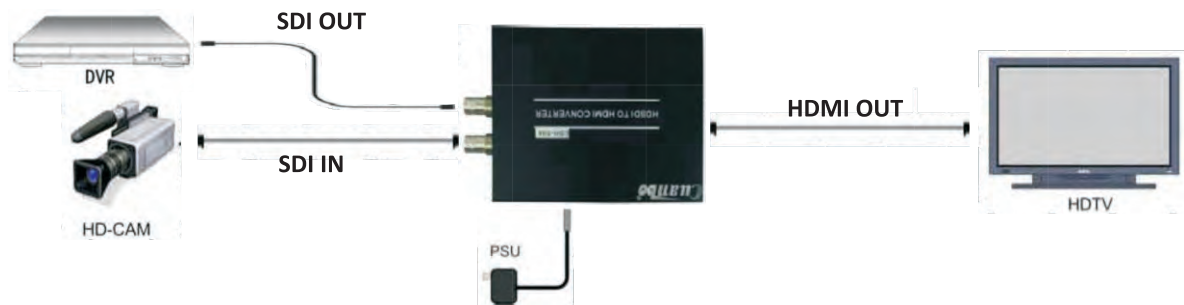
- ◆ HDMI to 3G/HD/SD SDI;
- ◆ Full support HDMI v1.3a;
- ◆ 2 channels SDI signal output;
- ◆ Support HDCCTV standard;
- ◆ Support RGB and YUV color Space.

Video	
HDMI Compliance	HDMI v1.3a
Max Resolution	1080p@60Hz
Connectors	
Input	(1) HDMI
Output	(2) BNC
Mechanical	
Dimensions	112 x 88 x 30mm(L/W/H)
Weight	0.66lbs [300g]
Power	
Power Supply	5V 2A DC
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]

## 3G/HD/SD SDI to HDMI Converter CSH-504

### Description:

The CSH-504 is a professional broadcast video product capable of converting 3GSDI, HDSDI, or SDSDI to HDMI. This allows viewing of industry standard consumer and commercial HDMI video components such as video players, computers, and more on broadcast products. It has 1 channel SDI looping output for cascade application. In addition, it support HDCCTV standard, RGB and YUV color space.



### Features:

- ◆ 3G/HD/SD SDI to HDMI;
- ◆ Full support HDMI v1.3a;
- ◆ 1 SDI signal looping output;
- ◆ Support HDCCTV standard;
- ◆ Support RGB and YUV color Space.

Video	
HDMI Compliance	HDMI v1.3a
Distance	SD:240m,HD:110m,3G:70m with RG59 cable
Max Resolution	1080p@60Hz
Color Depth	48bit
Connectors	
Input	(1) BNC
Output	(1) HDMI (1) BNC
Mechanical	
Dimensions	112 x 88 x 30mm(L/W/H)
Weight	0.66lbs [300g]
Power	
Power Supply	5V 2A DC
Environmental	
Operation Temperature	32~131°F [0~55°C]
Storage Temperature	-4~185°F [-20~85°C]
Relative Humidity	5~95% RH [no condensation]

## Success Stories



### China Ministry of Railways Command Center

Chinese Ministry of Railways Command Center is Chinese railway control center which is responsible for the trains dispatch, monitor and other operation works. 714 pairs of Cuanbos DVI fiber optic Extender are applied to this huge project.



### Shandong Province's Procuratorate Video Conference System

This Video conference system is made of 1 Provincial Procuratorate, 1 Railway Transportation Procuratorate, 18 Municipal Procuratorates and 152 District Procuratorates. 2 sets of Cuanbo's 32\*32 Matrix Switcher and 171 sets of 16\*16 Matrix Switcher and several hundreds of DVI fiber optic Extenders are applied to this huge project.





### Beijing Olympic Games' Opening Ceremony

Beijing Olympic Games is the world-famous Games and the opening ceremony is an important part of it, 195 pairs of Cuanbo's DVI fiber optic Extender are applied to the Image System.



### Shanghai World Expo

Shanghai World Expo is the most high-end expo all over the world, 2 Matrix and 69 pairs of DVI fiber optic Extender are applied to Dynamic Riverside Scene at Qingming Festival of China Pavilion.



### 10th Asia Arts Festival

Asia Arts Festival is the biggest show for Asia Arts and held by Chinese Ministry of Culture every year. 2 sets of Cuanbo's 32\*32 Matrix and 46 sets of DVI fiber optic Extenders are applied to it.





### **Shenzhen Universiade's Opening Ceremony**

Shenzhen Universiade is one of most world-famous Games and it's called "the little Olympic Games". 195 pairs of Cuanbo's DVI fiber optic Extender are applied to the opening ceremony's Image System.



### **India New Delhi Metro**

As the New Delhi Metro is the largest Metro system in India, 218 pairs of Cuanbo's Metro specialized fiber optic transceivers are applied to this project.



### **Thailand Bangkok Metro**

Thailand Bangkok Metro system is the main city public transport system in Bangkok, 256 pairs of Cuanbo's metro specialized fiber optic transceivers are applied to this project.



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