HDMI EXTENDER

AVLINK™

HDMI-LP
(Local)

HDMI-RP
(Remote)

USER MANUAL   V1.0
HDMI-EP

Package Contents-
- HDMI Extender Local Unit
- HDMI Extender Remote Unit
- 1 user manual
- 2 power adapter DC 5V 1A

Any thing missed, please contact with your vendor.

Introduction

The extension of HDMI video signal device up to 60 meter away by using HDMI extender and two CAT.5 cables.

HDMI extender is ideal for:
- Test bench facilities
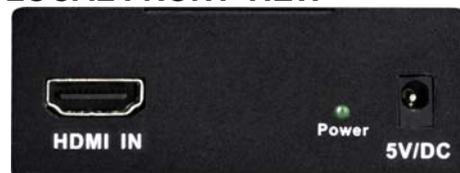- Data Center
- Help desks

Features

- Support 480p/720p/1080i/1080p.
- HDTV resolution up to 1080p(8Bit) / 30 meter. (Cat.5)
- HDTV resolution up to 1080p(12Bit) / 20 meter.(Cat.6e)
- Compliant with the specification of HDMI 1.3.
- Support DDC & HDCP.
- Use CAT.5 cable to install easily.

Specifications

Function	HDMI-LP	HDMI-RP
Input Connector	1 HDMI A-Type Female	2 RJ-45 Female
Output Connector	2 RJ-45 Female	1 HDMI A-Type Female
Max. Resolution	1080p(12Bit)	
Cable Distance	60 m (Max.)	
Power Adapter (Min.)	DC 5V 1A	
Housing	Metal	
Weight	141g	140g
Dimensions (LxWxH)	70x60x25 mm	

LOCAL FRONT VIEW

1. "HDMI In" Port
2. Power LED
3. Power Jack

LOCAL REAR VIEW

1. DEC/EQ Selected
2. "CAT.5" DDC Port
3. "CAT.5" Video Port

REMOTE FRONT VIEW

1. "HDMI Out" Port
2. Power LED
3. Power Jack

REMOTE REAR VIEW

1. EQ Selected
2. "CAT.5" DDC Port
3. "CAT.5" Video Port

Installation

1. Turn off the DVD and HDTV.
2. Connect the HDMI extension cable between the DVD and the "HDMI In" port of HDMI-LP.
3. Connect the HDMI extension cable between the HDTV and the "HDMI Out" port of HDMI-RP.
4. Connect the CAT.5 cables between the HDMI-LP "CAT.5" DDC port and the HDMI-RP "CAT.5" DDC port of extender.
5. Connect the CAT.5 cables between the HDMI-LP "CAT.5" Video port and the HDMI-RP "CAT.5" Video port of extender.
6. Connect the power cord and turn on the extender.
7. Turn on the DVD and HDTV.

DIP Switch Settings

Local SW Pin1,Pin2	De-Emphasis Level in mVpp	De-Emphasis Level in dB
On, On	1200	0
On, Off	850	-3
Off, On	600	-6
Off, Off	426	-9

Pin3: Equalization
On: Enables
Off: Disables

Remote SW Pin1,Pin2,Pin3	EQ (dB)
On, On, On	9
On, On, Off	14
On, Off, On	18
On, Off, Off	21
Off, On, On	24
Off, On, Off	26
Off, Off, On	28
Off, Off, Off	30

Test Equipment: SONY KLV-40W300A
SONY PS3
HDMI Cable (V1.3) 1m x2

480p/720p/1080i 12Bit (Belden 1583A)		
Cable Distance	Local SW Pin1, Pin2, Pin3	Remote SW Pin1, Pin2, Pin3
< 40m	Off, Off, Off	On, Off, Off
> 40m	Off, Off, On	Off, Off, On
1080p 12Bit (Sanwa Cat.6e)		
15m	On, On, On	On, On, On

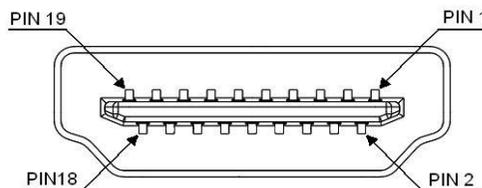Test Equipment: SONY KLV-40W300A
DIGITAL VIDEO GENERATOR VG-859B
HDMI Cable (V1.3) 1m x2

EIA640x480p@60 8Bit (Belden 1583A)		
Cable Distance	Local SW Pin1, Pin2, Pin3	Remote SW Pin1, Pin2, Pin3
60m	On, On, On	Off, Off, Off
EIA1280x720p@60 8Bit /EIA1920x1080i@60 8Bit (Belden 1583A)		
Cable Distance	Local SW Pin1, Pin2, Pin3	Remote SW Pin1, Pin2, Pin3
< 40m	Off, Off, Off	On, Off, Off
> 40m	Off, Off, Off	Off, Off, Off
EIA1920x1080p@60 8Bit (Belden 1583A)		
10m	On, On, Off	On, On, On
20m	On, On, Off	On, On, Off
30m	On, On, On	On, Off, Off

Note:
▪ Test equipment for reference only.
▪ The quality of CAT.5 cable which the video port used will influence the transmit distance. DDC port can use the general CAT.5 Cable.
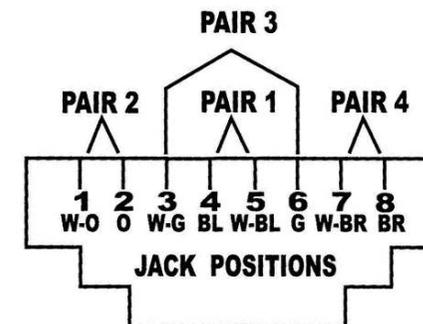
Technical Specifications
Input/Output Signal

Pin #	Signal	Pin #	Signal
1	TMDS Data 2+	11	TMDS Clock Shield
2	TMDS Data 2 Shield	12	TMDS Clock -
3	TMDS Data 2-	13	CEC
4	TMDS Data 1+	14	Reserved (N.C. on device)
5	TMDS Data 1 Shield	15	SCL
6	TMDS Data 1-	16	SDA
7	TMDS Data 0+	17	DDC/CEC Ground
8	TMDS Data 0 Shield	18	+5 Power
9	TMDS Data 0-	19	Hot Plug Detect
10	TMDS Clock+		

Wiring Information & Coding

Conductor Identification	RJ45 Pin Assignment	Color Code for Conductor
Pair 1	5	White-Blue
	4	Blue
Pair 2	1	White-Orange
	2	Orange
Pair 3	3	White-Green
	6	Green
Pair 4	7	White-Brown
	8	Brown

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