



# HDMI™ EXTENDER

# ELE7081

HDMI Extender Over Single CAT5e/6 Cable



## INSTALLATION MANUAL



# INTRODUCTION

## Dear customer,

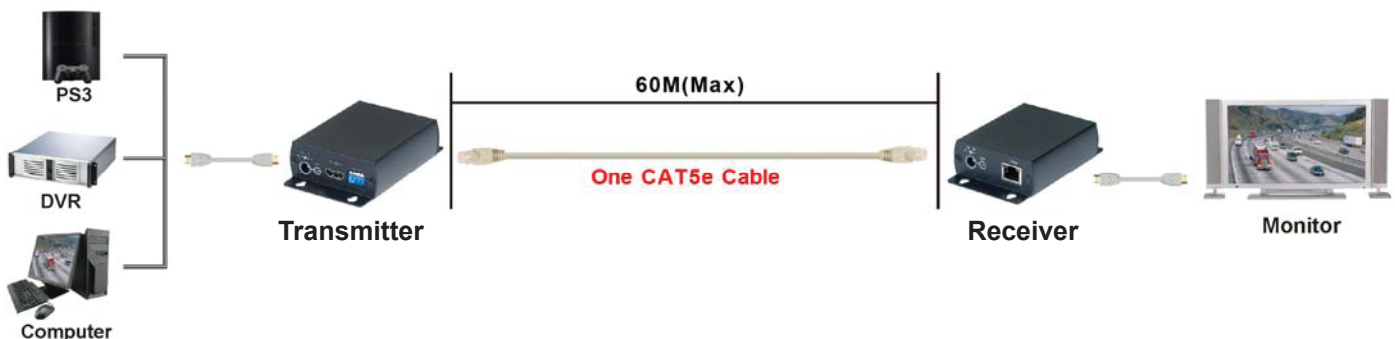
Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating, or adjusting this product. Please keep this manual for future reference.

Our series of HDMI converters, switches, extenders, matrixes, and splitters are designed to make using your A/V device more convenient, more comfortable, more productive, and more cost-efficient.

The **ELE7081 HDMI Extender** transmits signal over one Cat5e/6 cable to extend your HDTV display up to 60m at 1080i and 40m at 1080p. It is equipped with HDMI connections. It also supports DVI equipment when using an HDMI to DVI adapter. It provides an easy and affordable cabling solution for integrating home theater components.

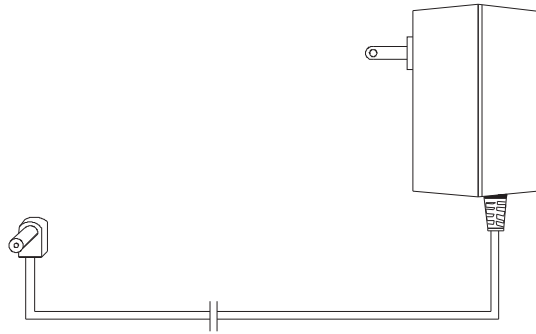
## Features

- Extends HDMI signal over one Cat5e/6 cable
- HDMI 1.3 compliant
- Transmission range: Up to 60m at 1080i / Up to 40m at 1080p
- Built in Auto EQ for easy plug and play
- Transmitter unit has built in EDID auto backup function
- No external power required at receiver unit for distances under 30m
- HDCP compliant



## Package Contents

- ELE7081 Transmitter (x1)
- ELE7081 Receiver (x1)
- Power Adapter (x2)



## Specifications

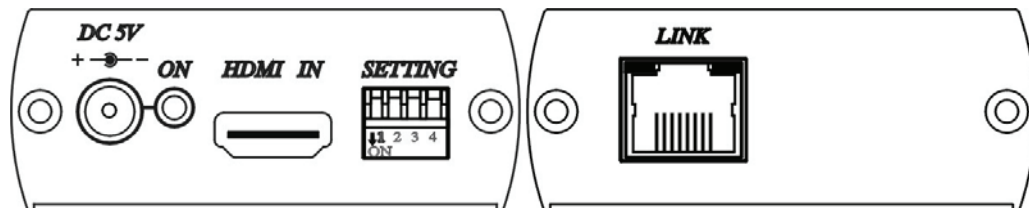
- Video Bandwidth: 2.25 Gbps (HDMI 1.3)
- Resolution: 480i, 480p, 720p, 1080i, 1080p @ 24/50/60 Hz
- Transmission Distance: 60m @ 1080i / 40m @ 1080p
- Input TMDS Signal: 1.2 Volts peak to peak
- Input DDC Signal: 5 Volts peak to peak
- HDMI Connector: 19-pin HDMI type female connector
- Cat5e/6 Connector: RJ-45 Shielded with 2 indicator LEDs
- Power Supply: 5V DC, 2 AMP regulated (External x2)
- Tx Power Consumption: 1200mA Max
- Rx Power Consumption: 700mA Max
- Operating Temperature: 0°-55° C / 95% Humidity
- Storage Temperature: -20°-85° C / 95% Humidity
- Dimensions (WxHxD): 167mm x 67mm x 27mm (each unit)
- Tx Weight: 180g
- Rx Weight: 170g

# TX UNIT / RX UNIT

## Transmitter

### FRONT/BACK

- HDMI Input
- Indicator LED
- Power Input
- EDID Setting
- RJ-45 Output



## EDID Setup

### DEFAULT

- Move DIP Switch 1 off (up)
- Move DIP Switch 2 off (up) for option 1, supports 1080i / LPCM 2 Channel
- Move DIP Switch 2 on (down) for option 2, supports 1080p / LPCM 5.1 Channel

### EXTERNAL

- Move DIP Switch 1 on (down) & unplug
- Connect Tx to TV using HDMI cable for auto backup
- Reconnect power to complete TV EDID backup, Blue LED will keep flashing
- Reset power on Tx to activate new EDID

## LED Indication

BLUE	On	Power On
BLUE	Flash	TV EDID Backup Complete
GREEN	On	Sending Power or Video to Rx Unit
YELLOW	On	No Data Input or Unsupported Video Format

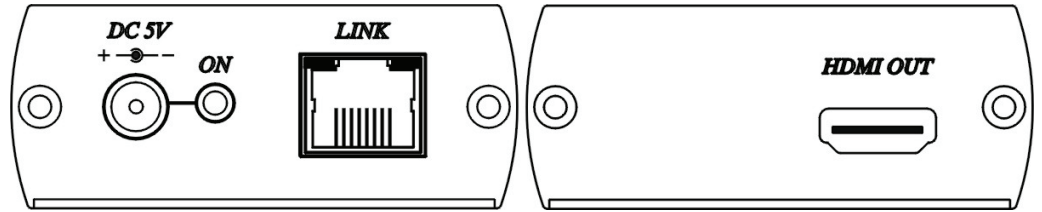
## DIP Switch Function

1	UP	Use Default EDID
1	DOWN	Use Backup TV EDID
2	UP	Select Default EDID Option 1 (1080i, 2CH)
2	DOWN	Select Default EDID Option 2 (1080p, 5.1CH)
3	Reserve	<b>NOTE: Do Not Move To DOWN</b>
4	Reserve	<b>NOTE: Do Not Move To DOWN</b>

# Receiver

## FRONT/BACK

- HDMI Output
- Indicator LED
- Power Input
- RJ-45 Input



## LED Indication

BLUE	On	External Power Adapter In Use
GREEN	On	Power & HDMI Signal from Tx Unit
YELLOW	On	No Data Input or Weak Signal

## Cable

### TRANSMISSION


- Use High Quality Cat5e UTP or Cat6 UTP Cable
- Cat6 Is Recommended For Distances Over 30m
- Distance May Vary Based On Different HDMI Equipment & Cable Quality

## RJ-45 Define (use TIA/EIA-568-B)

1	Orange/White	TMDS DATA2 +
2	Orange	TMDS DATA2 -
3	Green/White	TMDS CLOCK + / HDMI 5V
4	Blue	TMDS DATA1 +
5	Blue/White	TMDS DATA1 -
6	Green	TMDS CLOCK - / HDMI 0V
7	Brown/White	TMDS DATA0 +
8	Brown	TMDS DATA0 -

## Transmission Distance

1080p	Cat5e	40m
1080p	Cat6	45m
1080i	Cat5e	60m
720p	Cat5e	60m



**Caution:**  
The cabling must away from any equipment with electromagnetic waves, such as microwave ovens, mobile phones, radio equipment, power lines, etc.

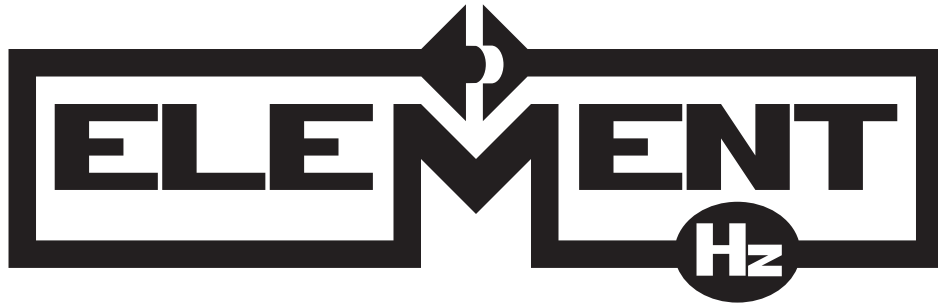
# NOTICE

## Performance Guidelines

- Be sure to use the product as directed to maximize the performance quality and the operational lifetime of your hardware.
- Be sure to place the device in a suitable environment. Do NOT place in damp, dusty, erosive, or oxidative areas. Keep out of high-temperature locations as well as any other extreme conditions.
- Be sure the hardware is safe and secure. Do NOT install in areas exposed to heavy motion or places that put the hardware at risk of falling.
- Do NOT touch the power adapter with wet hands.
- Do NOT pull on the power supply cord under any circumstance.
- Be sure to turn the power off when not in use.
- Do NOT open hardware, remove cover, or touch any parts within the device.
- For best result, be sure to use the factory supplied power adapter.
- Before powering on, be sure to check the connections carefully for accuracy.

## Troubleshooting

- No Power...First, double check the connections at both ends of the power supply. Also, be sure the power switch is in the on position.
- No Picture...First, make sure the display is powered on and that the devices are properly connected. Then, confirm the status of the source device is powered on and transmitting signal. If the problem persists, check the signal quality at each connection by testing each cable and each connection in the signal path. (NOTE: Cables should be HDMI V1.3 compliant.)
- Obscure Picture...First, try re-connecting the each cable to eliminate any poor connections. If the problem persists, check the signal quality at each connection by testing each cable and each connection in the signal path. (NOTE: Cables should be HDMI V1.3 compliant.)



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RoHS CE FC 



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9390 Veterans Memorial Pkwy, O'Fallon, MO 63366  
(800) 844-9555 | [retailsupport@skywalker.com](mailto:retailsupport@skywalker.com)