



Cat 5/6 HDMI Extender

Cat. No. AC-1681

User Manual

Table of Contents

1.0 Introduction.....	1
2.0 Specifications.....	2
3.0 Package Contents.....	3
4.0 Panel Descriptions.....	3
5.0 Connection & Operation.....	4

Cat 5/6 HDMI Extender

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.

1.0 INTRODUCTION

Most HDMI over Cat 5/6 extenders available uses two cables for data and signal transmission. This extender only utilises one Cat 5/6 cable reducing the cable costs further on transmission over great distances. Both unshielded twisted pair (UTP) and shielded twisted pair (STP) cables may be used, however shielded is recommended.

- Supported resolution: 480p, 720p, 1080i, 1080p
- Bandwidth: 1.65Gbps
- Transmission Range: Cat5 UTP 24AWG 1080p/35m, 1080i/40m
- CAT6 UTP 24AWG 1080p/45M, 1080i/60m
- Supported HDMI cable length:
Source to sender: 2m Receiver to sink: 2m
- HDCP compliant
- Power Requirement: 5VDC at sender and receiver
- Max power consumption: 15W
- Mains adaptor included
- Size (sender & receiver): 100(W) x 66(D) x 26(H)mm

1.1 FEATURES

This HDMI Extender has many features that enable it to perform in a superior manner. Among those features you will find:

- One pair as a full functional module, no need of setting.
- One piece of CAT-5e/6 cable can substitute HDMI cable to achieve long distance transmission.
- Follow the standard of IEEE-568B.
- Transmission distance can be up to 50 meters for 1080p using UTP cable with cross stand inside.
- Auto-adjustment of feedback, equalization and amplify, the user does not need to care about the length of the cable.
- Compact size.
- Supports HDMI1.2a.
- Supports highest video resolution 1080p.
- Supports 165MHz/1.65Gbps per channel (4.95Gbps all channel) bandwidth.
- Supports 8bit per channel (24bit all channel) deep color.
- Supports uncompressed 2 channel audio such as LPCM

Cat 5/6 HDMI Extender

2.0 SPECIFICATIONS

Signal Inputs/Output	
Input Video Signal	0.5 -1.0 volts p-p
Output Video	HDMI 1.2a
Video format supported	
DTV/HDTV	480i/576i/480p/576p/720p/1080i/1080P
Transmission distance	
UTP cable with cross stand inside	50M for1080p
Operating Frequency	
Video Amplifier Bandwidth	1.65Gpbs/165MHz
Vertical Frequency Range	50/60Hz
Resolutions(HDTV)	
Interlaced(50&60Hz)	480i,576i,1080i
Progressive(50&60Hz)	480p,576p,720p,1080p
Mechanical	
Size (L-W-H)	100×65×25.5MM
Weight (Net)	385G
Warranty	
Limited Warranty	1 Year Parts and Labor
Environmental	
Operating Temperature	0°C to +70°C
Operating Humidity	10% to 85 % RH (no condensation)
Storage Temperature	-10°C to +80°C
Storage Humidity	5% to 90 % RH (no condensation)
Power Requirement	
Power Supply	5V DC@2A
Power consumption (Max)	5W
Regulatory Approvals	
Converter Unit	FCC,CE,UL
Power Supply	UL,CE,FCC
Accessories	
AC Power Adapter	US standard, UK standard and so on
User Manual	English Version

Note: In order to achieve the high transmission quality, please choose the UTP cable with cross stand inside.

2: The cables with lower quality will not achieve the perfect transmission effect and long distance.

3: Theoretically the function of the product is normal when adopt short distance transmission.

If the product cannot transmit long distance, this is to say, there are quality problems in the transmission cables.

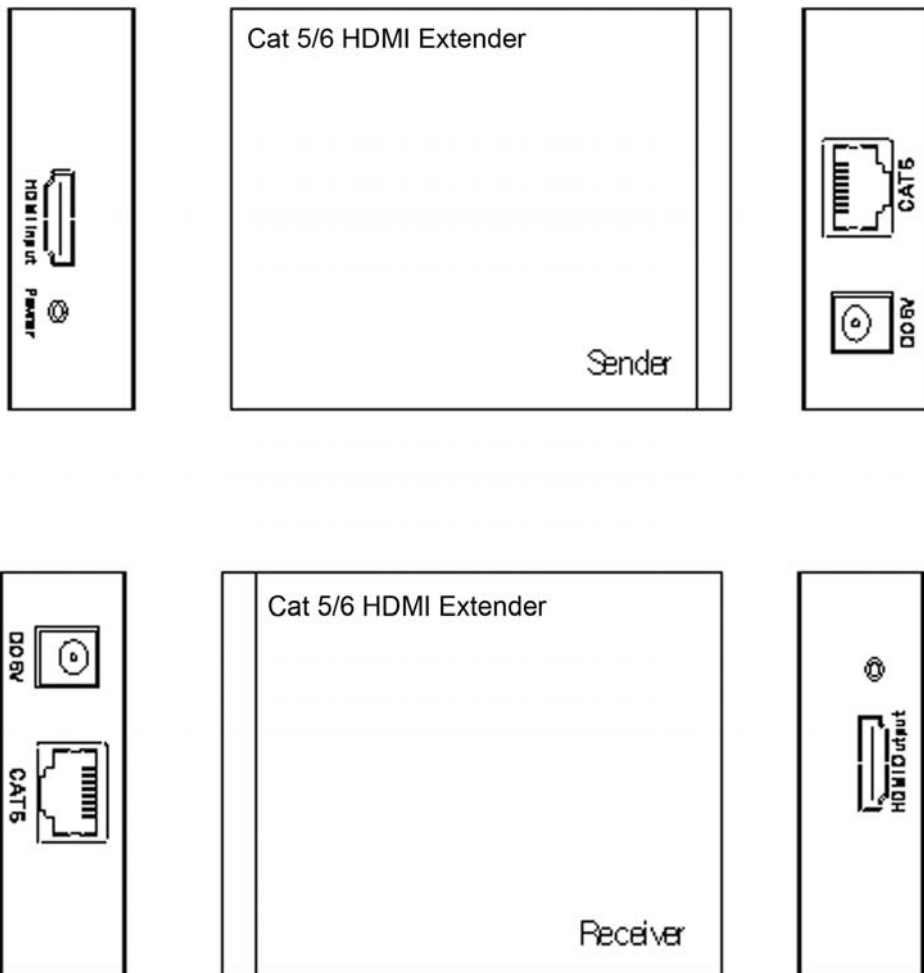
Cat 5/6 HDMI Extender

3.0 PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make sure the following items are contained in the shipping carton:

- 1) Main unit NO. 1 Sender
- 2) Main unit NO. 2 Receiver
- 3) Two pieces of 5VDC Power Supply.
- 4) User's Manual

4.0 Panel Descriptions



Cat 5/6 HDMI Extender

5.0 Connection and Operation

- 1) Connect the HDMI input source (such as HD-DVD, PS3, STB) to the Sender.
- 2) Connect one piece of CAT-5e/6 cable to both of the output of the Sender and input of the Receiver.
- 3) Connect the output of Receiver to display (such as HD-LCD、 HD-DLP)
- 4) Plug one power supply into the Sender and the other into the Receiver.

Attention: Insert / Extract cable gently.

5.1 CONNECTION DIAGRAM

