



GEKTV WiFi IPTV RECEIVER

GEK1080HD-160GW

User Manual



Version 2.7

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This product incorporates patented and patent pending technologies that has been licensed by GekTV Entertainment, Inc.

1. Description

1.1 Overview



Figure 1 Overview

1.2 Front Panel

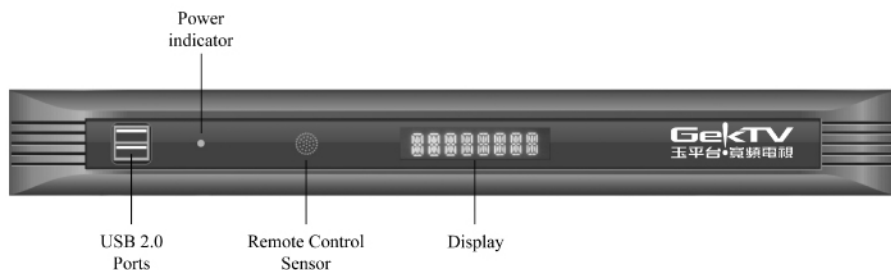


Figure 2: Front Panel

USB 2.0 Ports: Two USB 2.0 Ports for connecting external USB card reader or U-disk

Power indicator: single LED display; red when unit is in normal operation

Remote Control Sensor: Infrared receiver for remote control

Display: Alphanumeric display showing system status

1.3 Rear Panel

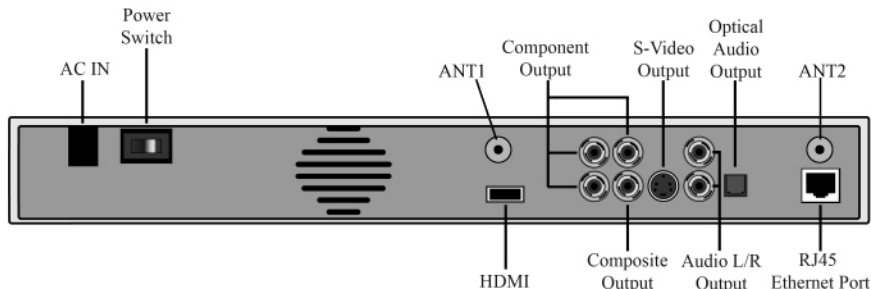


Figure 3: Rear Panel

Item	Function
AC IN	AC power input 110~220V 50/60Hz
Power Switch	Switch on/off power
ANT1 / ANT2	Sent the data to your network gateway or ADSL modem, and receive the data from it by antennae
HDMI	High Definition Multimedia Interface for digital video and audio output. Supports resolution up to 1920×1080p
Component Output	Analog component video output. 3 RCA terminals with green(Y), blue(Pb), red(Pr)
S-Video Output	Analog S-Video output supports NTSC and PAL video formats only.
Composite Output	Analog composite video output. 1 RCA type terminal (yellow)
Audio	2 RCA terminals (white(L) and Red(R)) which output stereo audio signal
Optical Audio Output	S/PDIF format digital audio output. Supports 5.1 surround sound output when playing back a video that has 5.1 audio
RJ45 Ethernet Port	Connect this port to your network gateway or ADSL modem to receive GekTV programming

Note:

1. Component output consists of 3 RCA terminal connectors which give improved video quality.
2. Composite output consists of 1 RCA terminal connector which supports NTSC and PAL video output only.
3. S-Video connector supports NTSC and PAL video formats only.
4. HDMI offers exceptional video and audio quality with a single easy-attach connector. It supports multi-channel digital audio transmissions and component video color spacing for true rendering of HD video and supports resolution up to 1080p.
5. The power switch on the back of the GEKTV IPTV Receiver 1080HD-160G should always be left at the “on” position to allow daily direct downloads of new programming to the unit. You may press the remote control’s “On/Off” button to set the receiver to standby mode when the unit is not being in use for viewing.

1.4 Features

- **Memory:** 128MB RAM
- **Video Output:** HDMI, Component, S-Video and Composite
- **Audio Output:** HDMI, L/R Stereo and S/PDIF optical
- **Network Connection:** 100Mbps Ethernet port
- **USB:** Two USB 2.0 ports
- **Display:** Eight digit 14-segments fluorescent displays
- **Remote Controller:** 36 keys remote controller for menu operation or channel selection.
- **Hard Drive:** Embedded 160GB hard drive. Stores up to 100+ hours of SD programming
- **Video Format:** MPEG-1/2/4, H.264
- **Audio Format:** PCM; MPEG-1 layer I, II; AAC, Dolby Digital 5.1; DTS 5.1
- **Picture Format:** JPEG, BMP, PNG, and GIF
- **Antenna:** Two 2.4G SMA(MALE HEAD MALE PIN)
- **WIFI carrier frequency:** 2.4GHz-2.4835GHz
- **WIFI baseband:** BroadCom BCM4318

1.5 Remote Controller



Figure 4: Remote Controller

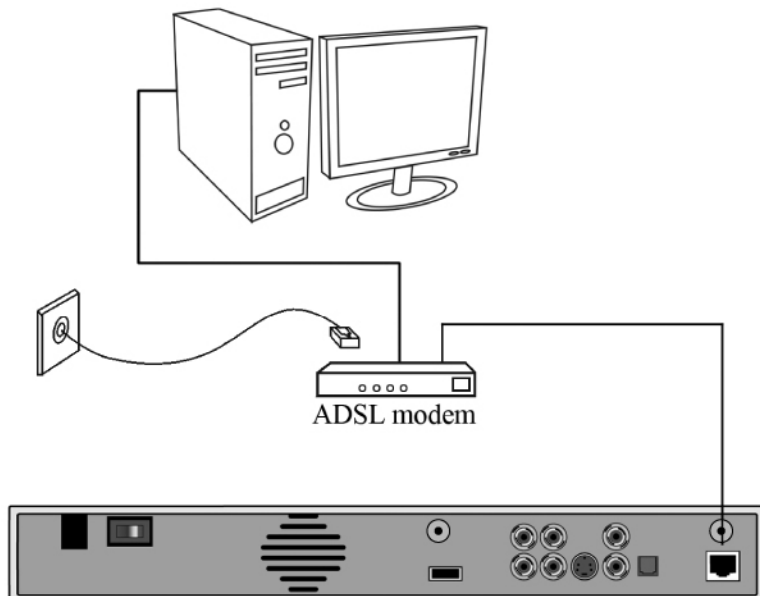
Icon	Name	Description
	MENU	Display the Electronic Program Guide (EPG)
	0~9	For numeric input or channel selection. Press successively for two- or three-digits channels
	DOWNLOAD	Stop video viewing and activate the download process
	NET RADIO	Listen to the radio on the Internet
	MY LIST	Show my download list
	FUNCTION	Multi-function key
	AUDIO	Select alternate audio track when available
	INFO	Show video/other information
	SUBTITLE	Select subtitle when available
	Page up/down	Page up/down in EPG navigation
	Arrow keys	Navigate the EPG
	OK	Confirm selection
	BUY	Confirm purchase
	FFW / REW	Fast forward / Fast Rewind
	STOP	Stop playback
	PLAY / PAUSE	Pause and resume
	Satellite	Watch live video
	CH +/-	Channel up/down
	VOL +/-	Volume up/down

2. Installation

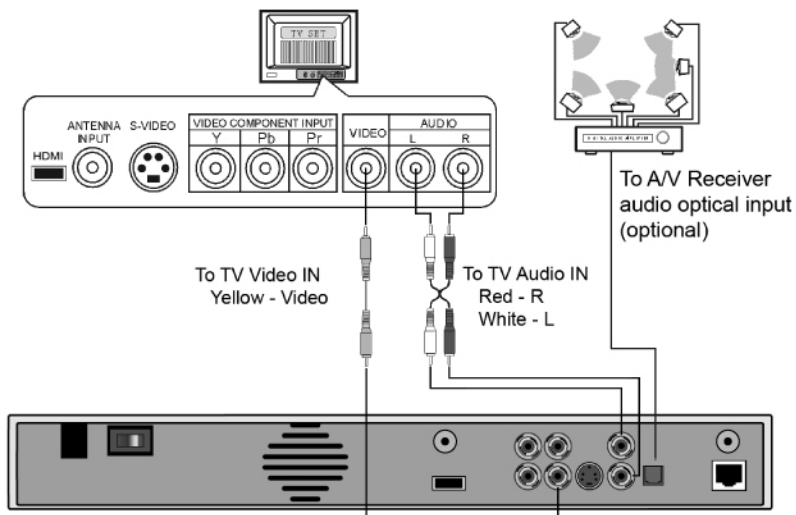
2.1 Preparation

There are several ways to connect with your television. The following diagrams give some examples. With different types of television, the interface may be different.

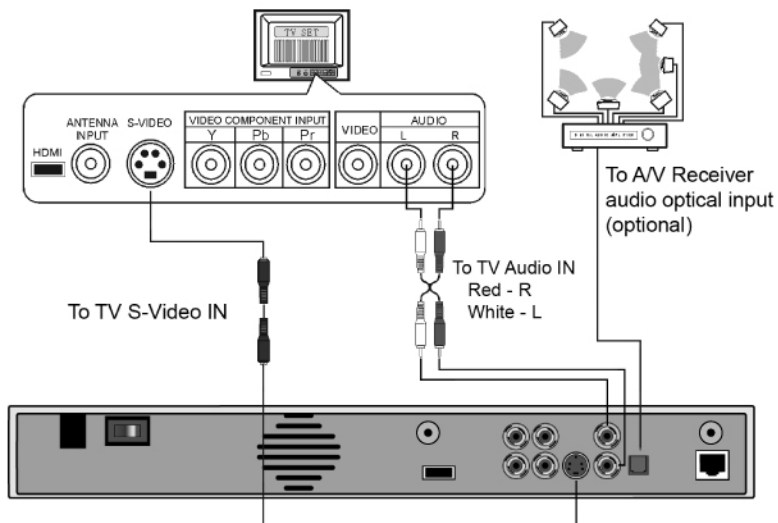
a) Connect to your home gateway.



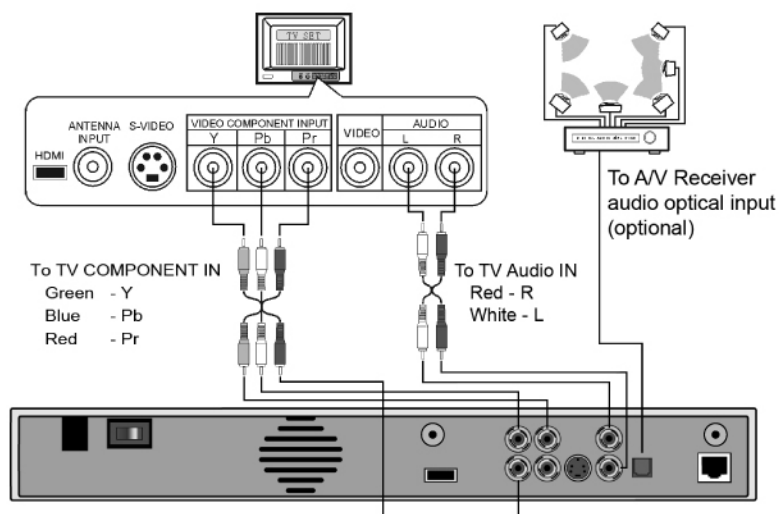
b) Connect to TV by Composite video



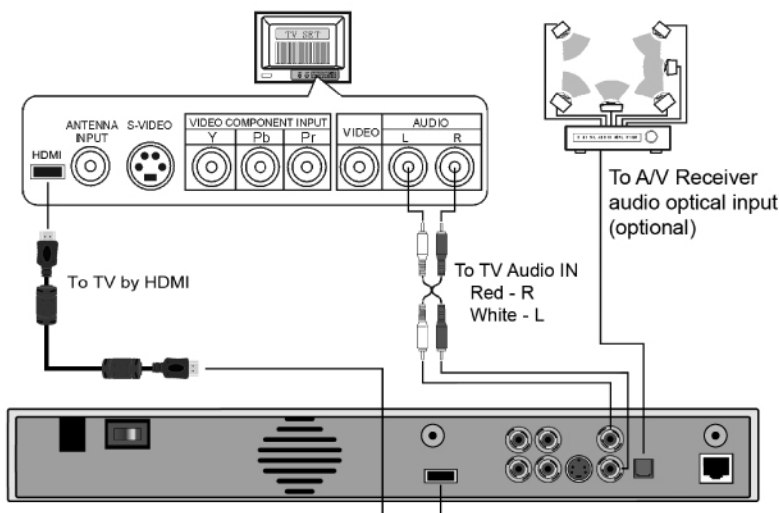
c) Connect to TV by S-Video



d) Connect to TV by Component video



e) Connect to TV by HDMI



2.2 Accessories

One set stereo audio cable (Red / White)

One composite video cable (Yellow)

One Ethernet cable

One remote controller (36 keys with additional plate printed in traditional Chinese)

Two AA-sized batteries

Warranty card

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Note: HDMI, component video, S-Video, and S/PDIF cables are not included.

2.3 Standards compliance

This product has been approved to UL 60950 (Standard for Information Technology Equipment Safety) and FCC Part 15 Class B.

Warning: This is a Class B product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

Federal Communication Commission Interference Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Caution: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Industry Canada

Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This device has been designed to operate with antennas having a maximum gain of 3dBi. Antennas having a gain greater than 3dBi are strictly prohibited for use with this device. The required antenna impedance is 50 ohms.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that permitted for successful communication.

RF EXPOSURE

To comply with FCC and Industry Canada RF radiation exposure requirements, the antenna(s) used for this transmitter must be installed such that a minimum separation distance of 20cm is maintained between the radiator (antenna) & user's/nearby people's body at all times and must not be co-located or operating in conjunction with any other antenna or transmitter.