

## CAT5 Audio/Video Splitters

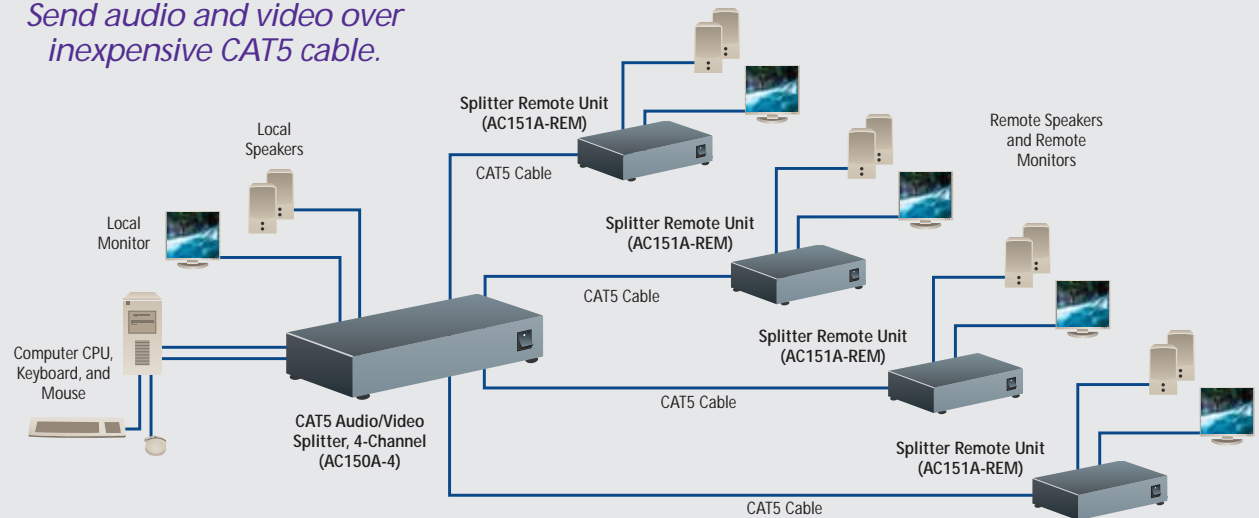


Transmit audio and video signals across CAT5 cables to up to four remote monitors.

## FEATURES

- Transmit both audio and video signals to remote locations.
- Use low-cost, easy-to-handle CAT5 cable.
- Transparent hardware solution. No software to run.
- Support high-resolution monitors.
- Work with all major brands of sound cards.
- Cascadable for adding even more monitors.
- Picture-focus on the remote units.
- All connections are on one side.

*Send audio and video over inexpensive CAT5 cable.*



## OVERVIEW

Use ordinary Category 5 cable to send both audio and video from a computer CPU to multiple computer monitors with the BLACK BOX® CAT5 Audio/Video Splitter.

The splitter—which is essentially a hub that's used to connect to a PC or other video- and audio-source device(s)—simultaneously broadcasts audio and video signals over CAT5 twisted-pair cable to as many as four remote monitors and speakers up to 360 ft. (109.7 m) away. By using thin CAT5 cable instead of bulky coax cable, you can avoid cable clutter.

In addition to its multimedia broadcasting capabilities, the CAT5 Audio/Video Splitter offers plug-and-play installation and is a complete hardware solution. This ensures real-time screen transfer and eliminates the problem of software conflicts. The splitter also features high-quality stereo audio and is compatible with most major sound cards.

You'll need one CAT5 Audio/Video Splitter for your CPU plus a remote unit for each monitor you want to send audio and video to. The remote units are placed near monitors, speakers, or other video- and audio-destination device(s).

We offer both 2-channel and 4-channel versions of the splitter, but they're cascadable, so you can connect and broadcast to additional monitors if required. The AC150A-2 and AC150AE-2 have two RJ-45 jacks and can send audio and video to two remote units. The AC150A-4 and AC150AE-4 have four RJ-45 jacks and can send audio and video to as many as four remote units. The splitter and remote models with product codes ending in "A" come with 110-VAC power supplies; the models with codes ending in "AE" use 230-VAC power.

### Simple to connect.

All of CAT5 Audio/Video Splitter connections are made on the device's rear panel.

A VGA extension cable is shipped with the unit. You use this cable to connect the HD15 female video-output port on your PC or video-source device to the splitter's HD15 male connector\*.

You also receive an audio-extension cable, which connects to the 3.5-mm female audio-output port, speakers port, or headphone port on your PC or other audio-source device and to the splitter's 3.5-mm jack †.

Want to attach a local monitor or other video-destination device to the splitter? Simply attach the device via the splitter's HD15 female monitor connector. And attaching local speakers or headphones is a simple matter of plugging them into the splitter's 3.5-mm audio out jack.

To cable the CAT5 Audio/Video Splitter to the remote units, plug CAT5 twisted-pair cables into the splitter's RJ-45 remote unit jacks.

As with the splitter unit, all connections on the remote unit are made on the rear panel. Use the unit's HD15 female monitor connector to connect a remote monitor. A 3.5-mm audio jack is used to connect remote speakers or headphones. CAT5 cable from the splitter connects to the remote unit's RJ-45 jacks.

### Simple to operate.

Once you connect and power-up the splitter and remote unit(s), any video and audio received by the splitter broadcasts to the equipment that's attached to the remote unit.



AC150A-4

To fine-tune your monitor screen's picture to your liking, simply turn the remote unit's screwdriver-adjustable dial. For volume control, you're given several options. You can adjust it on the individual set of speakers or other destination device(s), or you can set the volume for all remote sites simultaneously. The latter can be done using the controls on your audio-source device—by using the volume control panel on a Windows® PC, for example.

### TECH SPECS

**Compliance** — CE ("A" versions only); FCC Part 15 Subpart B Class A, IC Class/classe A

**Audio Frequency Response** — 20 Hz to 16 kHz (at -3 dB)

**Audio Signal Levels (Vin Vout Maximum)** — 2 volts peak-to-peak

**Indicator** — Rear-mounted Power LED

**Interfaces** — VGA-compatible video, 3.5-mm stereo audio, and a proprietary composite of both

**Connectors** — Splitters: (1) HD15 male to the video-source device; (1) HD15 female to the local monitor; (2) 3.5-mm audio jacks: (1) to the audio-source device, (1) to the local speakers or headphones; (1) 4-pin DIN female power inlet; (2) or (4) RJ-45 female to remote units;

Remote units: (1) HD15 female to a remote monitor; (1) 3.5-mm audio jack to remote speakers or headphones; (1) 4-pin DIN female power inlet; (1) RJ-45 female to splitter

**Enclosure** — Steel

**Maximum Distance** — 5 m (16.4 ft.) from a splitter or remote unit to any attached video or audio device; 360 ft. (109.7 m) of CAT5 cabling between the splitter and the remote unit

**User Controls** — All units: ON/OFF rocker switch; Remote units: Screwdial for focus

**Video Signal** — Analog RGB, 0.7 volts peak to peak

**Video Impedance** — 75 ohms

**Video Frequencies Supported** —

Horizontal: 30–100 kHz;

Vertical (refresh rates): 43–100 Hz

**Video Resolution (Maximum)** — 1280 x 1024 at 75 Hz

**Video Synchronization** — TTL compatible, horizontal and vertical positive/negative sync

**Video Standards** — VGA, SVGA, XGA

**Temperature Tolerance** —

Operating: 32 to 122°F (0 to 50°C);

Storage: -40 to +158°F (-40 to +70°C)

**Humidity Tolerance** — Up to 90% noncondensing at up to 86°F (30°C)

**Power** — Input: From utility-power (mains) outlet, through detachable power cord and IEC 320 male inlet, to external transformer:

AC150A, AC151A models: 115 VAC, 60 Hz;

AC150AE, AC151AE models: 230 VAC, 50 Hz;

Output: 9 VAC at 2 amp from transformer to chassis

**Size** — Splitters: 1.2"H x 8.8"W x 3"D (3 x 22.4 x 7.6 cm);

Remote units: 1.2"H x 6.2"W x 3"D (3 x 15.8 x 7.6 cm)

**Weight** — Splitters: 1 lb. (0.5 kg);

Remote units: 0.6 lb. (0.3 kg)

\* If you want to use a video-source device that outputs VGA compatible video but it has some other type of video-output connector, please call Tech Support to discuss your application.

† If the audio-source device you intend to use has the larger quarter-inch connectors that are typical of commercial and industrial sound equipment, you'll need a quarter-inch-to-3.5-mm adapter. If your audio-source device has some other kind of audio-output connector, please call Tech Support to discuss your application.

### WHAT'S INCLUDED

#### Audio/Video Splitter:

- ◆ Splitter unit
- ◆ Power supply transformer
- ◆ Power input cord
- ◆ 5-ft. (1.5-m) HD15 male to HD15 female VGA video cable
- ◆ 5-ft. (1.5-m) stereo audio-extension cable with 3.5-mm plugs
- ◆ Users' manual

#### Audio/Video Splitter Remote Unit:

- ◆ Remote unit
- ◆ Power supply transformer
- ◆ Power input cord
- ◆ Users' manual

Item	Code
<b>CAT5 Audio/Video Splitters</b>	
2-Port	
115-VAC, 60-Hz	AC150A-2
230-VAC, 50-Hz	AC150AE-2
4-Port	
115-VAC, 60-Hz	AC150A-4
230-VAC, 50-Hz	AC150AE-4
<b>For each port, order a...</b>	
CAT5 Audio/Video Splitter Remote Unit	
115-VAC, 60-Hz	AC151A-REM
230-VAC, 50-Hz	AC151AE-REM
<b>For optimum performance, order...</b>	
CAT5 Solid-Conductor Cable, 4-Pair, Straight-Pinned, PVC, Beige	
10-ft. (3.0-m)	EYN737MS-0010
20-ft. (6.0-m)	EYN737MS-0020
50-ft. (15.2-m)	EYN737MS-0050
100-ft. (30.4-m)	EYN737MS-0100