

CAT5 Audio/Video Computer Training System

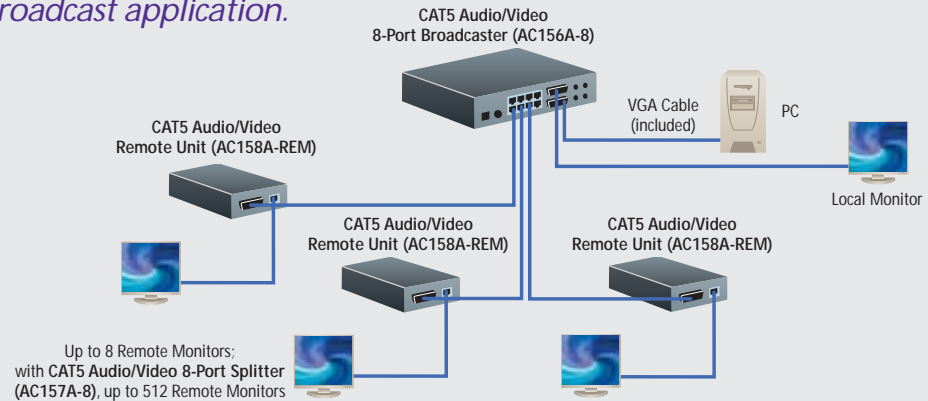


**Broadcast a single audio/video source
to up to 512 remote display stations.**

FEATURES

- Broadcast video from an Ethernet LAN without using network bandwidth.
- Extend your video and audio up to 360 feet (109.7 m).
- Plug-and-play CAT5 cable technology produces no cable clutter.
- Splitter is optional; use 72 splitters to expand your system up to 512 users.
- Order one remote unit for each end-user device.

A typical broadcast application.



OVERVIEW

Use the CAT5 Audio/Video Computer Training System (AC164A) to broadcast Ethernet LAN video and audio from one teacher's computer screen to multiple student screens. This hardware and software combination enables you to simultaneously monitor and control multiple student screens. It also enables you to send or receive large text or graphics files to or from a student's computer without using the network. This promises extra data security, since the files are never exposed to common network security risks, such as viruses or hackers. It also virtually eliminates tedious delays and crashes typically experienced in network-dependent large file transfer.

The software included with the training system also supports many uses: take full control of a student's computer to help a student solve a problem, run a program on all student computers at the same time simply by clicking the teacher's mouse, or monitor and view each student's active tasks.

Send a screen to the entire class (up to 64 remotes) or just 1 student display simply by pressing a button. And communicate via chat, or two-way audio.

Multimedia broadcasting allows you to broadcast full-screen MPG movies from DVDs, VCRs, cameras, etc. onto some or all student monitors. Video resolutions can be up to 1600 x 1200 at 75 Hz, depending on distance.

Choose from several components to build the system that's right for you.

The CAT5 Audio/Video Computer Training Kit (AC164A) contains remote units for three student displays that enable you to view a LAN display on three user PCs.

For each extra display in an eight-user system, you'll need a CAT5 Audio/Video Remote Unit (AC158A-REM) that works with shielded cable or a CAT5 Audio/ Video Powered Remote

Unit (AC158A-PWREM) that provides higher audio quality and works with unshielded cable. You can even cascade up to 72 CAT5 Audio/Video Splitters (AC157A-8) to control up to 512 PCs!

For a system not connected to your LAN, order the broadcasters, transmitters, splitters, or remote units that you need. They provide real-time data updates at airports, stock exchanges, or at train or bus stations. Use them to monitor security at multiple locations. You can even use them in the classroom: send a teacher's screen display with audio to all student monitors and speakers, or darken all screens.

The CAT5 Audio/Video 8-Port Broadcaster (AC156A-8) includes a control unit. In configurations that don't require the control unit, the system constantly broadcasts a computer screen with audio to all remote monitors/speakers. With the control unit, you get expanded applications, including darkening remote screens and releasing the remote screen to allow local access.

The software for the CAT5 Audio/Video 1-Port Transmitter (AC165A) enables an instructor to broadcast video from an Ethernet LAN without tying up network bandwidth—share graphically rich screens without delays!

For larger classrooms, order one or more CAT5 Audio/Video Splitters (AC157A-8) to expand and boost the system. You can connect up to 72 splitters to your system.

Lastly, order a CAT5 Audio/ Video Remote Unit (AC158A-REM) or CAT5 Audio/Video Powered Remote Unit (AC158A-PWREM) for each remote screen/computer.

The CAT5 Audio/Video Computer Training System provides high-resolution audio and video—up to 1600 x 1200 resolution at 75 Hz! (Actual resolution depends on cable length.) This hardware and software system ensures that screen quality is kept intact at each of the connected monitors.

TECH SPECS

Audio — Mono

Distance (Maximum) — 360 ft. (109.7 m)

Horizontal/Vertical Sync Polarity — Positive/Negative

Input/Output Video Signals — Analog signal red, green, blue 0.7v p-p 75 ohms

Network Requirements — For AC164A components: 100BASE-T environment running TCP/IP

Resolution (Maximum) — 1600 x 1200 at 75 Hz

Software System Requirements — Teacher computer: Pentium® III, 700 MHz or higher with Windows® 95/98/Me/XP, Windows 2000, or Windows NT® 4.0; 64 MB RAM or higher recommended; 100BASE-T network card; 20 MB free hard disk space;

Student computer: Minimum Pentium II, 350 MHz or higher with Windows 95/98/Me/XP, Windows 2000, or Windows NT 4.0; 64 MB RAM or higher recommended; 100BASE-T network card;

Network: TCP/IP protocol;

100BASE-T hub, network switch recommended;

Audio broadcasting: For all computers: SoundBlaster compatible sound card;

microphone and speakers or headphones;

Web camera broadcasting: Web camera fitted to the teacher's computer

Sync — TTL compatible

System Cable — CAT5 shielded or unshielded twisted pair (STP or UTP), solid

Temperature Tolerance — Operating: Up to 122° F (50° C);

Storage: -40 to +158° F (-40 to +70° C)

Connectors — AC164A: See Connectors specs for AC165A, AC157A-8, and AC158A-REM;

AC156A-8: System out: (8) shielded RJ-45;

Video in: (1) HD15 M;

Video out: (1) HD15 F;

Audio in: (2) 3.5-mm F;

Audio out: (2) 3.5-mm F;

Controller: (1) 8-pin mini DIN F;

Power: (1) barrel M;

AC165A: System out: (1) shielded RJ-45;

Video in: (1) HD15 M;

Video out: (1) HD15 F;

Audio in: (2) 3.5-mm F;

Audio out: (2) 3.5-mm F;

Controller: (1) 8-pin mini DIN F;

Power: (1) barrel M;

AC157A-8: System in: (1) shielded RJ-45;

System out: (1) shielded RJ-45;

Power: (1) barrel M;

AC158A-REM: System in: (1) shielded RJ-45;

Video in: (1) HD15 M;

Video out: (1) HD15 F;

Audio in: (2) 3.5-mm F;

Audio out: (2) 3.5-mm F;

AC158A-PWREM: System in: (1) unshielded RJ-45;

Video in: (1) HD15 M;

Video out: (1) HD15 F;

Audio in: (2) 3.5-mm F;

Audio out: (2) 3.5-mm F

Power — AC164A: See Power specs for AC165A, AC157A-8, and AC158A-REM;

AC156A-8, AC165A, AC157A-8: 115–230 VAC, 50–60 Hz, autosensing, external;

AC158A-REM: From the interface;

AC158A-PWREM: 100–240 VAC, 50–60 Hz, autosensing, external

Size — AC164A: See Size specs for AC165A, AC157A-8, and AC158A-REM;

AC156A-8: 1.7"H x 6.9"W x 3.8"D (4.3 x 17.5 x 9.7 cm);

AC165A: 1.6"H x 5.9"W x 3.7"D (4.1 x 15 x 9.4 cm);

AC157A-8: 1.6"H x 4.6"W x 3.8"D (4.1 x 11.7 x 9.7 cm);

AC158A-REM, AC158A-PWREM: 0.9"H x 1.3"W x 3.1"D (2.3 x 3.3 x 7.9 cm)

Weight — AC164A: See Weight specs for AC165A, AC157A-8, and AC158A-REM;

AC156A-8, AC157A-8: 2 lb. (0.9 kg);

AC165A, AC158A-REM, AC158A-PWREM: 0.6 lb. (0.3 kg)

Why Buy From Black Box? Exceptional Value. Exceptional Tech Support. Period.

Recognize any of these situations?

- You wait more than 30 minutes to get through to a vendor's tech support.
- The so-called "tech" can't help you or gives you the wrong answer.
- You don't have a purchase order number and the tech refuses to help you.
- It's 9 p. m. and you need help, but your vendor's tech support line is closed.

According to a survey by Data Communications magazine, 90% of network managers surveyed say that getting the technical support they need is extremely important when choosing a vendor. But even though network managers pay anywhere from 10 to 20% of their overall purchase price for a basic service and support contract, the technical support and service they receive falls far short of their expectations—and certainly isn't worth what they paid.

At Black Box, we guarantee the best value and the best support. You can even consult our Technical Support Experts before you buy if you need help selecting just the right component for your application.

Don't waste time and money—call Black Box today.



AC164A

WHAT'S INCLUDED

AC164A:

- ◆ CAT5 Audio/Video 1-Port Transmitter (AC165A)
- ◆ CAT5 Audio/Video Splitter, 8-Port (AC157A-8)
- ◆ (3) CAT5 Audio/Video Remotes (AC158A-REM)
- ◆ Control unit
- ◆ (4) CAT5 cables
- ◆ (5) audio cables
- ◆ (4) VGA cables
- ◆ Serial cable
- ◆ (3) stickers to label STP cable
- ◆ CD with software
- ◆ (2) 115–230-VAC, 50–60-Hz autosensing power supplies with (2) U.S. cords and (2) European cords
- ◆ User's manual

AC156A-8:

- ◆ CAT5 Audio/Video 8-Port Broadcaster
- ◆ Power supply with (1) U.S. cord and (1) European cord
- ◆ Control unit
- ◆ (2) speaker/microphone cables
- ◆ VGA cable
- ◆ User's manual

AC165A:

- ◆ CAT5 Audio/Video 1-Port Transmitter
- ◆ Power supply with (1) U.S. cord and (1) European cord
- ◆ Control unit
- ◆ (2) speaker/microphone cables
- ◆ VGA cable
- ◆ User's manual

AC157A-8:

- ◆ CAT5 Audio/Video Splitter
- ◆ Power supply
- ◆ Power cord
- ◆ (3) stickers to label STP cable
- ◆ User's manual

AC158A-REM:

- ◆ CAT5 Audio/Video Remote Unit
- ◆ VGA cable
- ◆ Speaker/microphone cable
- ◆ (3) stickers to label STP cable

AC158A-PWREM:

- ◆ CAT5 Audio/Video Powered Remote Unit
- ◆ VGA cable
- ◆ Speaker/microphone cable
- ◆ (3) stickers to label UTP cable

Item	Code
To set up a three-user classroom that connects to your network, order the kit...	
CAT5 Audio/Video Computer Training Kit	AC164A
The above kit contains remote units for three student displays. For each additional display in an eight-user system, you'll need a...	
CAT5 Audio/Video Remote Unit	AC158A-REM
CAT5 Audio/Video Powered Remote Unit	AC158A-PWREM
For a system not connected to your network, order individual components, starting with either an 8-port broadcaster or a 1-port transmitter...	
CAT5 Audio/Video 8-Port Broadcaster	AC156A-8
CAT5 Audio/Video 1-Port Transmitter	AC165A

Item	Code
...next, for larger classrooms, order an additional splitter...	
CAT5 Audio/Video Splitter, 8-Port	AC157A-8
...then, order one remote for each display.	
CAT5 Audio/Video Remote Unit	AC158A-REM
CAT5 Audio/Video Powered Remote Unit	AC158A-PWREM
For optimum performance and a 20% savings, order ...	
CAT5 Shielded Bulk Cable, 100-MHz, Solid, 4-Pair, PVC, Beige, 1000-ft. (304.8-m), Spool	EVNSL70A-1000
CAT5 Unshielded Bulk Cable, 100-MHz, Solid, 4-Pair, PVC, Beige, 1000-ft. (304.8-m), Spool	EYN840A-1000