Wizard Multimedia Extenders
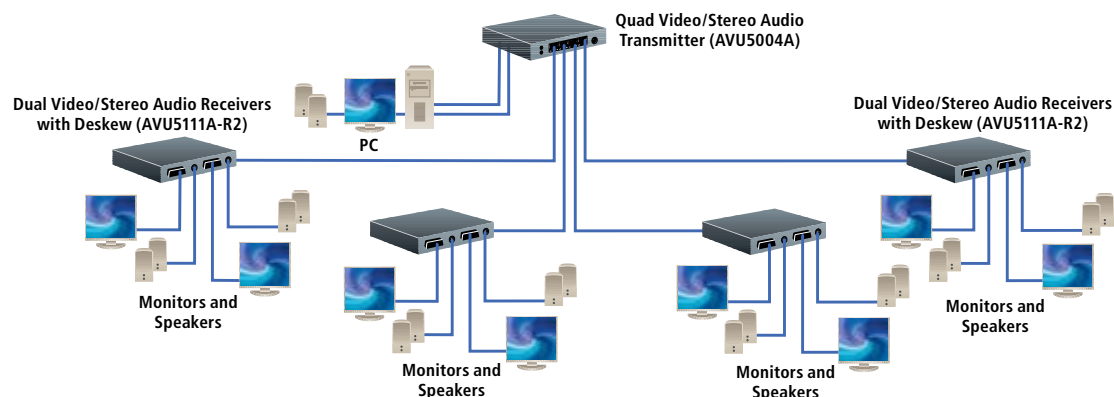
Send high-quality video and audio up to 1000 feet (305 m) using CATx cable.

FEATURES

» Transmitters and receivers available alone or in a kit.

» Choose from single or quad transmitters, and single or dual receivers.

» Kit includes one transmitter and one receiver, each with stereo audio.

» Dual Video/Stereo Audio Receiver has built-in skew compensation for clear, crisp video at the remote location.

» Cascade up to three levels of transmitters and receivers in many combinations.

Quad Video/Stereo Audio Transmitter (AVU5004A)

Dual Video/Stereo Audio Receivers with Deskew (AVU5111A-R2)

PC

Dual Video/Stereo Audio Receivers with Deskew (AVU5111A-R2)

Monitors and Speakers

Monitors and Speakers

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OVERVIEW

When you need to display high-quality video and audio from a source system to remote locations, choose our Wizard Multimedia Extenders. They reproduce high-quality video and sound up to 1000 feet (305 m) using CATx twisted-pair cable. (CATx represents CAT5, 5e, or 6.) Typical applications include digital signs and narrowcasting.

The Wizard Multimedia Extenders Kit (AVU5010A) contains one Single Video/Stereo Audio Transmitter (AVU5001A) and one Receiver with Dual Video/Stereo Audio Ports (AVU5011A).

Each plug-and-play transmitter and receiver has independent sharpness and brightness control for maximum resolution (1600 x 1280 at distances up to 650 feet [200 m] or 1280 x 1024 up to 1000 feet [305 m]).

The extenders support advanced spike suppression for electrically noisy environments. The sturdy units also feature durable steel casings.

In the simplest configuration, the transmitter and receiver directly support two remote display and speaker sets. The transmitter can also support a local monitor and speaker set next to the source system.

You need at least one transmitter and one receiver; however, cascading multiple transceivers and receivers provides potentially enormous expansion possibilities. All transmitters work with all receivers. Use as standalone units or rackmount up to 16 modules in the optional 3U chassis (AVU5000A).

To expand your system, connect more transmitters to the original module; each supports its own receiver modules.

The AVU5001A and AVU5011A are also available separately.

The Wizard Multimedia Extender Quad Video/Stereo Audio Transmitter (AVU5004A) can directly feed up to four receivers. Each Receiver with Dual Video/Stereo Audio Ports, CATx Daisychain Port,

and Integral Deskew (AVU5111A-R2) supports two remote display and speakers sets, but it can also drive an additional three receivers and their respective displays/speakers. You can connect more transmitters to the original module; each supports its own multiple receiver modules.

You can have up to 3 cascade connections between the primary transmitter (the one connected to the source PC) and any receiver. The cascade connections can be all at the transmitter, all at the receiver end, or at a mixture of both.

The table on **page 3** explains the maximum link length possible for up to three cascade connections.

The AVU5111A-R2 also features 300-MHz skew compensation, or deskew (62-ns full scale and 2-ns granularity for clear, crisp remote video). And a skew test pattern is included on the supplied CD-ROM.

You can use the transmitters and receivers in any combination. For example, an AVU5004A transmitter can drive mixtures of AVU5011A and AVU5111A-R2 receivers.

An AVU5001A transmitter can control single or cascaded AVU5111A-R2 receivers. An AVU5011A receiver can also be cascaded from an AVU5111A-R2 receiver.

To rackmount the extenders, use the Rackmount Chassis (AVU5000A) and Universal Plates (AVU5002). Order one Universal Plate for every module you plan to rackmount.

NOTE: The AVU5111A-R2 receiver is recommended for CAT5e or higher cable extensions that are longer than 328 feet (100 m). We also recommend it for CAT5e or higher applications in which you need to extend higher resolutions. For details, call Tech Support.

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TECH SPECS

Resolution — 1600 x 1280 at distances up to 650 ft. (200 m); 1280 x 1024 at distances up to 1000 feet (305 m)

Extension Distance — Up to 1000 ft. (305 m) using CATx cable

Extension Technology — Differential analog signaling for video signals

Skew Compensation — AVU5111A-R2: 300-MHz skew compensation (deskew) with 62-ns full scale and 2-ns granularity

Bandwidth — 300 MHz

User Controls — AVU5011A:
    (1) Sharpness control,
    (1) Brightness control;
  AVU5111A-R2: (1) Sharpness control,
    (1) Brightness control,
    (2) Skew adjusters

Connectors — AVU5001A: (1) DB15 female, (1) 3.5-mm audio connector, (1) RJ-45 female, (1) 2.5-mm DC connector for power adapter;
  AVU5011A: (2) DB15 female, (1) 3.5-mm audio connector, (1) RJ-45 female, (1) 2.5-mm DC connector for power adapter;
  AVU5004A: (1) DB15 female, (1) 3.5-mm audio connector, (4) RJ-45 female, (1) 2.5-mm DC connector for power adapter;
  AVU5111A-R2: (2) DB15 female, (2) 3.5-mm audio connectors, (2) RJ-45 female, (1) 2.5-mm DC connector for power adapter

Indicators — (1) Power, (1) Video Input

Temperature Tolerance — 32 to 104°F (0 to 40°C)

Humidity Tolerance — 5 to 60%, noncondensing

Power — 100–240 VAC, 50–60 Hz, 5 VDC at 500 mA

Size — 1"H x 3.8"W x 3.8"D (2.5 x 9.7 x 9.7 cm)

Weight — 1 lb. (0.5 kg)

AVU5004A

What's included

AVU5010A:
✦ Single Video/Stereo Audio Transmitter (AVU5001A)
✦ Receiver with Dual Video/Stereo Audio Ports (AVU5011A)
✦ (2) Universal power supplies
✦ (2) 6-ft. (1.8-m) power cords
✦ (2) sets of self-adhesive rubber feet
✦ CD-ROM containing a user's manual

AVU5001A and AVU5004A:
✦ Single Video/Stereo Audio Transmitter (AVU5001A) or Quad Video/Stereo Audio Transmitter (AVU5004A)
✦ Universal power supply
✦ 6-ft. (1.8-m) power cord
✦ Set of self-adhesive rubber feet
✦ CD-ROM containing a user's manual

AVU5011A and AVU5111A-R2:
✦ Receiver with Dual Video/Stereo Audio Ports (AVU5011A) or Receiver with Dual Video/Stereo Audio, CATx Daisychain Port and Integral Deskew (AVU5111A-R2)
✦ Universal power supply
✦ 6-ft. (1.8-m) power cord
✦ Set of self-adhesive rubber feet
✦ CD-ROM containing skew test pattern (AVU5111A-R2 only) and a user's manual

Buyer's Guide | Maximum link distance for cascade connections

Number of Cascade Connections (in a Branch)	Overall Length of Links for a Branch (from Transmitter to Farthest Receiver)
0	1000 ft. (305 m)
1	800 ft. (244 m)
2	650 ft. (200 m)
3	600 ft. (183 m)

Item	Code
Wizard Multimedia Extenders	
Kit (AVU5001A and AVU5011A)	**AVU5010A**
Transmitters	
Single Video/Stereo Audio	**AVU5001A**
Quad Video/Stereo Audio	**AVU5004A**
Receivers	
w/Dual Video/Stereo Audio Ports	**AVU5011A**
w/Dual Video/Stereo Audio Ports, CATx Daisychain Port and Integral Deskew	**AVU5111A-R2**
You might also need…	
Rackmount Chassis	**AVU5000A**
Universal Plates	**AVU5002**

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