

# Hi-Res VGA Video/Audio Extender via CAT5

**XTENDEX®**

## Remote VGA video up to 1000 feet away without degradation

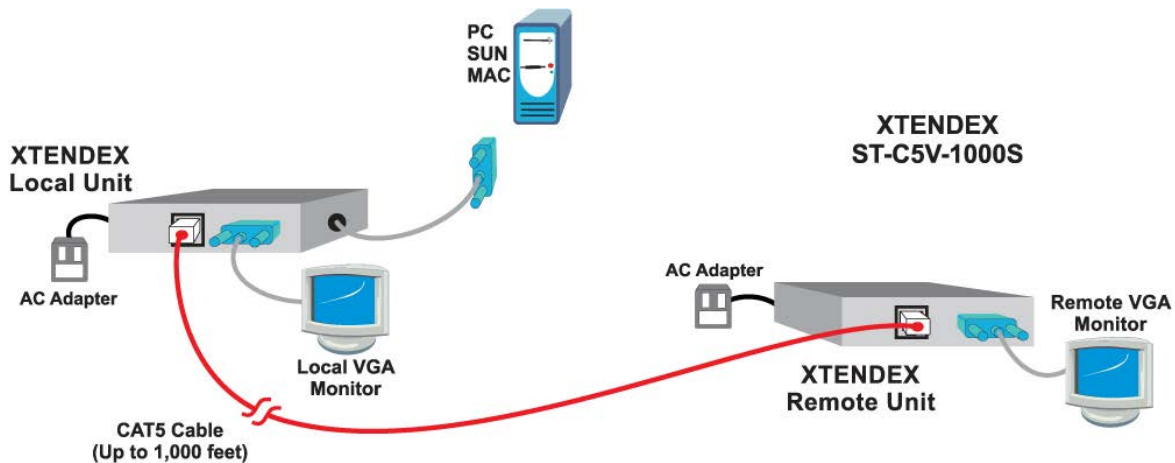
- Industry-leading ultra high resolutions up to 2048x1536.
- High quality, rugged steel construction with durable powder coat finish.
- Automatically adjust video quality and color skew for crystal clear video with longer cables.
- Available options: two-way audio (support for speakers and microphone), RS232, two-way audio + RS232.
- DDC2B support for local or remote monitor (user selectable).
- Built-in surge protection.



### XTENDEX® ST-C5V2ARS-1000S Remote and Local Units

- **Two-way Audio**
- **RS232**
- **Two-way Audio + RS232**

The XTENDEX® VGA Extender transmits VGA video up to 1,000 feet away from a computer using CAT5/5e/6 cable. Each video extender consists of a local unit that connects to a computer and also supplies video to a local monitor, and a remote unit that connects to a monitor.



## Specifications

### Local Unit

#### Host Connection

- Supports Computers with VGA video.
- Multiplatform support: Windows 2000/XP/Vista/7/8/10, Windows Server 2000/2003/2008/2012, Solaris, Linux, FreeBSD, and MAC OS 9/10.
- One male 15-pin HD connector.
- Two-way audio option: two 3.5mm stereo plugs (audio in/mic out).
- RS232 option: female 9-pin D connector.
- Two-way audio + RS232 option: two 3.5mm stereo plugs (audio in/mic out), female 9-pin D connector.

#### Local Access

- Crisp and clear 2048x1536 video resolution.
- One female 15-pin HD connector.
- Two-way audio option: two 3.5mm stereo jacks (audio out/mic in).
- RS232 option: female RJ45 connector.
- Two-way audio + RS232 option: two 3.5mm stereo jacks (audio out/mic in), female RJ45 connector.

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## Specifications (Continued)

### Remote Unit

- Supports resolutions up to 2048x1536.
- One female 15-pin HD connector.
- Two-way audio option: two 3.5mm stereo jacks (audio out/mic in).
- RS232 option: female RJ45 connector.
- Two-way audio + RS232 option: two 3.5mm stereo jacks (audio out/mic in), female RJ45 connector.

### Video Quality Adjustment

- Automatically adjusts the video quality and color skew to compensate for varying lengths of CAT5/5e/6 cable.
  - Maximum delay: 62ns in 2ns steps.
- Fine adjustment available via push buttons on the remote unit.
- Settings are automatically stored in the unit. The next time the unit is powered on, the adjustment will be recalled.

### Environmental

- Operating temperature: 32°F to 122°F (0°C to 50°C)
- Storage temperature: -20°F to 140°F (-30°C to 60°C)
- Operating and Storage Relative Humidity: 17 to 90% non-condensing RH.

### Dimensions

- WxDxH (in): 5.05x3.08x1.09

### Power

- Local and remote unit: 110 or 220 VAC at 50 or 60 Hz via AC adapter.
- Power Consumption: 10W (each - local and remote unit).

### Regulatory Approvals

- CE, RoHS

### Warranty

- Two years.

## Options

- Choose between two-way audio, RS232, or two-way audio + RS232

### Two-way Audio

- Stereo audio
  - Stereo audio can be heard both locally and remotely.
  - Frequency response: 20 Hz to 20 kHz, ±1 dB.
  - Signal-to-Noise Ratio (SNR): >76 dBA.
  - Total Harmonic Distortion and Noise (THD+N): 0.017%.
  - Stereo crosstalk: -70 dB.
  - Input impedance: 10k Ohms.
  - Line level output; supports multimedia speakers.
  - Maximum I/O levels: 3.1Vp-p (line level).
  - CD quality audio output.
- Microphone
  - Microphone can be used locally and remotely, user selectable.
  - Supports electret microphones.
  - Input impedance: 10k Ohms.
  - Maximum I/O levels: 2.8V, unbalanced

### RS232

- Supports TXD, RXD, DTR, DSR, DCD, CTS and RTS.
- Baud rate up to 57.6K.
- Support for a touch screen monitor.

## Cables

- Use CAT5, CAT5e or CAT6 straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors.
  - Supports minimum cable length of 100 feet and maximum length of 1,000 feet.
  - Cables not included.



### Warning!

- These units are not designed to be connected to an ethernet card, ethernet router, hub, switch or any other ethernet RJ45 connector of an ethernet device. Damage to devices connected to the ethernet may result.

### Distances and Resolutions for CAT5/Cat5e and CAT6 Cables

Cable	Distance (ft)	Resolution
CAT5/CAT5e (UTP)	1000	1920x1200 at 60Hz
	800	1920x1440 at 60Hz
	600	2048x1536 at 60Hz
CAT6 (UTP)	800	1920x1440 at 60Hz
	600	2048x1536 at 60Hz
CAT5/5e (STP)	800	1920x1200 at 60Hz
	600	1920x1440 at 60Hz
	400	2048x1536 at 60Hz
CAT6 (STP)	400	1280x1024 at 60Hz
	300	1600x1200 at 60Hz
	200	2048x1536 at 60Hz

### VGA Extender Models

Supported Features	NTI Part #
VGA only	ST-C5V-1000S
VGA + two-way audio	ST-C5V2A-1000S
VGA + RS232	ST-C5VRS-1000S
VGA + two-way audio + RS232	ST-C5V2ARS-1000S