

# VGA EXTENDER

Extend a VGA monitor up to 305 meters away from a computer

## Available options:

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



**XTENDEX® ST-C5V2ARS-1000S (Remote and Local Units)**

## Features & Applications

The XTENDEX® VGA Extender transmits VGA video up to 305 meters 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.

- Industry-leading ultra high resolutions up to 2048x1536.
- 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

## Specifications

### Local Unit

#### Host Connection

- Supports a computer with VGA video.
- Multiplatform support: Windows 2000/XP/Server 2003/ Vista, 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.

### 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

- Video quality adjustment, including color skew, for different lengths of CAT5/5e/6 cable is done manually.
  - Maximum delay: 62ns in 2ns steps.
- Use push buttons on the remote unit to adjust video quality and color skew.
- Settings are automatically stored in the unit. The next time the unit is powered on, the adjustment will be recalled.

### Dimensions

- WxDxH(in): 4.6x3.1x1.1

### 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

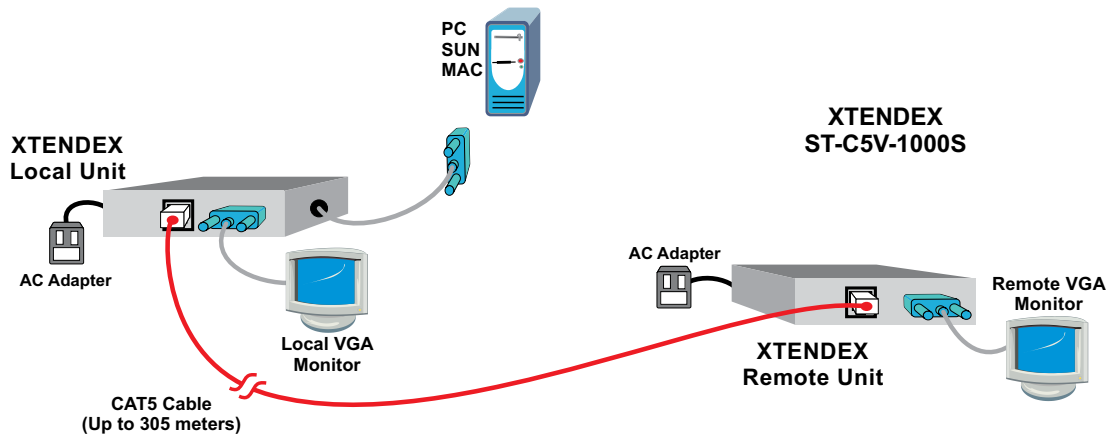
- Two years.



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## Configuration and Cable Illustration



## 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 UTP straight through cable for TIA/EIA-568B wiring terminated with standard RJ45 connectors.
- 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 (meters)	Resolution
CAT5/CAT5e (UTP)	305	1600x1200 at 60Hz
CAT5/CAT5e (UTP)	213	1920x1200 at 60Hz
CAT5/CAT5e (UTP)	152	2048x1536 at 60 Hz
CAT5/CAT5e (UTP)	91	2048x1536 at 60Hz
CAT5 (STP)	213	1024X768 at 60Hz
CAT5 (STP)	183	1280X1024 at 60Hz
CAT5 (STP)	121	1600x1200 at 60Hz
CAT5 (STP)	91	1920x1440 at 60Hz
CAT6 (UTP)	305	1280x1024 at 60Hz
CAT6 (UTP)	213	1600x1200 at 60 Hz
CAT6 (UTP)	152	1920x1200 at 60Hz
CAT6 (UTP)	91	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



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