# StarTech.com

Hard-to-find **made easy**®

# VGA Video Extender over Cat 5 Remote Receiver with Audio

STUTPEALR/STUTPEALRGB
ST124UTPEA/ST128UTPEA
STUTPEA4X

*actual product may vary from photos

DE: Bedienungsanleitung - de.startech.com
FR: Guide de l'utilisateur - fr.startech.com
ES: Guía del usuario - es.startech.com
IT: Guida per l'uso - it.startech.com
NL: Gebruiksaanwijzing - nl.startech.com
PT: Guia do usuário - pt.startech.com

For the most up-to-date information, please visit: www.startech.com

Manual Revision: 01/31/2012

**FCC Compliance Statement**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

**Use of Trademarks, Registered Trademarks, and other Protected Names and Symbols**

This manual may make reference to trademarks, registered trademarks, and other protected names and/or symbols of third-party companies not related in any way to StarTech.com. Where they occur these references are for illustrative purposes only and do not represent an endorsement of a product or service by StarTech.com, or an endorsement of the product(s) to which this manual applies by the third-party company in question. Regardless of any direct acknowledgement elsewhere in the body of this document, StarTech.com hereby acknowledges that all trademarks, registered trademarks, service marks, and other protected names and/or symbols contained in this manual and related documents are the property of their respective holders.

StarTech.com
Hard-to-find made easy®

# Table of Contents

StarTech.com

Hard-to-find made easy®

# Introduction

Thank you for purchasing a StarTech.com video extension solution. The ST124UTPEA/ ST128UTPEA and STUTPEALR(GB) combine to create a cost effective method of providing high quality video (with audio) to remote locations over Cat5 UTP cabling.

## Features

- Supports resolutions of up to1024x768 @ 60 Hz refresh rate at maximum extension distance; higher resolutions available with shorter cable runs
- Delivers VGA video and audio to monitors located up to 300m / 950ft away
- Can be used with a four port line splitter

## Package Contents

### ST124UTPEA/ST128UTPEA/STUTPEA4X

- Local VGA Video and Audio Extender•
- Power Adapter
- 2 x Rack Rails
- Screw kit for rack rails
- Instruction Manual

### STUTPEALR(GB)

- Instruction Manual
- Long Range UTP Receiver
- Power Adapter - Class 2 Transformer

StarTech.com
Hard-to-find made easy®
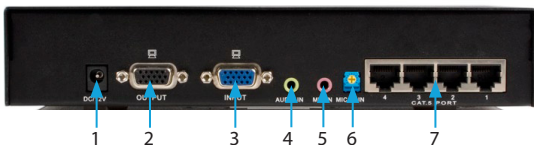
# Hardware Guide

## Local Unit - Front View

**ST124UTPEA**
**ST128UTPEA**



Power LED

**ST124UTPEA**
**ST128UTPEA**



1  2  3  4  5  6  7

*ST124UTPEA shown

| | |
|---|---|
| **1** | Input Power Jack |
| **2** | VGA Output (HD-15 Female Connector) |
| **3** | VGA Input (HD-15 Female Connector) |
| **4** | AUDIO Input |
| **5** | MIC Input |
| **6** | MIC GAIN - adjust volume of microphone |
| **7** | CAT5 OUT (RJ-45 Connectors): ST124UTPEA x 4<br>ST128UTPEA x 8 |

StarTech.com
Hard-to-find made easy®

# Hardware Guide - Continued

## Remote Unit - **Front View**

**STUTPEALR(GB)**

Power LED          CAT5 Connector
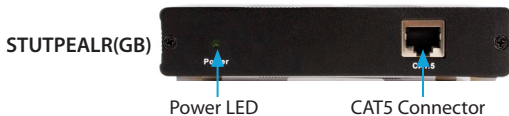
## Remote Unit - **Rear View**

**STUTPEALR(GB)**

1                    2         3 4 5
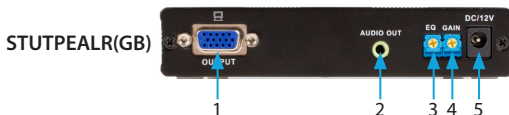
| | |
|---|---|
| 1 | VGA Output (HD-15 Female Connector) |
| 2 | Audio Output |
| 3 | EQ - Equalization length adjust (Adjust to sharpen images) |
| 4 | GAIN - Adjust Brightness |
| 5 | Input Power Jack |

StarTech.com

Hard-to-find made easy®

# Hardware Guide - Continued

## Line Splitter - Rear View



| | | | | | |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |
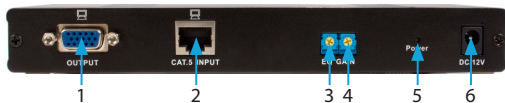
## Line Splitter - Front View



7

| | |
|---|---|
| 1 | VGA Output (HD-15 Female Connector) |
| 2 | CAT5 Input |
| 3 | EQ - Equalization length adjust (Adjust to sharpen images) |
| 4 | GAIN - Adjust Brightness |
| 5 | Power LED |
| 6 | Input Power Jack |
| 7 | CAT5 Output ports |

StarTech.com
Hard-to-find made easy

1. Turn off the VGA signal source device (computer).

2. Connect the local unit (ST124UTPEA/ST128UTPEA) HD-15 female INPUT connector to the signal source (computer) using an HD-15 male to male cable.

3. Connect the AUDIO IN connector of the local unit (ST124UTPEA/ST128UTPEA) to the Audio Out port of the audio source (computer sound card), using a 3.5mm audio cable.

4. Optional: Connect a compatible microphone cable to the MIC IN connector on the local unit (ST124UTPEA/ST128UTPEA).

5. Connect a VGA monitor to the local unit (ST124UTPEA/ST128UTPEA) 5. HD-15 female OUTPUT using an HD-15 male to male cable.

6. Connect the Local Unit (ST124UTPEA/ST128UTPEA) 6. CAT5 OUT port to the Remote Unit (STUTPEALR(GB)) using CAT5 cable.

**Optional:** If you will be using the STUTPEA4X Line Splitter, connect the Local Unit (ST124UTPEA/ST128UTPEA) CAT5 OUT port to the Line Splitter using CAT5 cable. Once the Line Splitter has been connected, you have the option of connecting to up to four remote units (STUTPEALR(GB)) using CAT5 cable.

7. Once each of the Remote Units have been connected to either a Local 7. Unit (ST124UTPEA/ST128UTPEA) or Line Splitter (STUTPEA4X), connect a VGA monitor to the HD-15 OUTPUT connector provided by the remote units as necessary.

8. Connect the Remote Unit 8. AUDIO OUT port to the device you will be using to distribute audio (i.e. stereo receiver, amplifier etc.)

9. Connect the power cord on all units (Local, Line Splitter, Remote).9.

10. Turn on the monitor and PC and audio amplifier.


When situating the Local and Remote Units, please review the maximum distance capability offered by each component (found in the Specifications section

StarTech.com
Hard-to-find made easy®

# Specifications

## Local Unit

| Function | ST124UTPEA | ST128UTPEA |
|---|---|---|
| VGA in Connector | HD-15 Female x1 | |
| VGA out Connector | HD-15 Female x1 | |
| Audio in Connector | 3.5mm Stereo Jack x1 | |
| MIC in Connector | 3.5mm Stereo Jack x1 | |
| RJ-45 Connector | 4 | 8 |
| Max. Resolution | 1280x1024 60Hz | |
| Cable Distance | 300m (Max.) | |
| Power Adapter (Min.) | DC 12V, 1250mA | |
| Weight | 600g | 660g |
| Dimensions (LxWxH) | 220x119.5x41mm | |

## Remote Unit

| Function | STUTPEALR STUTPEALRGB |
|---|---|
| VGA In/Out Connector | HD-15 Female x1 |
| Audio In/Out Connector | 3.5mm Stereo Jack x1 |
| RJ-45 Connector | 1 |
| Max. Resolution | 1280x1024 60Hz |
| Cable Distance | 300m (Max.) |
| Power Adapter | DC 12V, 600mA |
| Weight | 296g |
| Dimensions (LxWxH) | 130x110.5x25mm |

StarTech.com
Hard-to-find made easy®

# Specifications - Continued
## Line Splitter Unit (STUTPEA4X)

| Function | STUTPEA4X |
| --- | --- |
| **RJ-45 In Connector** | 1 |
| **RJ-45 Out Connector** | 4 |
| **Max. Resolution** | 1280x1024 60Hz |
| **Cable Distance** | 300m (Max.) |
| **Power Adapter (Min.)** | DC 12V, 1250mA |
| **Weight** | 322g |
| **Dimensions (LxWxH) mm** | 200x111x25 |

StarTech.com
Hard-to-find made easy®

# Specifications - Continued

## Distance/Resolutions

Please note: It is recommended that CAT5 cable be used, as it offers superior performance to other standards. For example, CAT6:

| Cable Type | Supported Distance | Supported Resolutions |
|---|---|---|
| **CAT.5/5E** | 50M | 2048 x 1536 |
| | 100M | 1280 x 1024 |
| | 180M | 1024 x 768 |
| | 200M | 800 x 600 |
| | 300M | 640 x 480 |
| **CAT.6** | 30M | 1920 x 1440 |
| | 50M | 1280 x 1024 |
| | 100M | 800 x 600 |

## Wiring Information and Coding

| Conductor Indentification | RJ-45 Pin Assignment | Color Code for Conductor |
|---|---|---|
| **Pair 1** | 5 | White-Blue |
| | 4 | Blue |
| **Pair 2** | 1 | White-Orange |
| | 2 | Orange |
| **Pair 3** | 3 | White-Green |
| | 6 | Green |
| **Pair 4** | 7 | White-Brown |
| | 8 | Brown |

StarTech.com
Hard-to-find made easy®
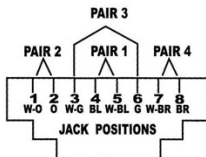
# Technical Support

StarTech.com's lifetime technical support is an integral part of our commitment to provide industry-leading solutions. If you ever need help with your product, visit www.startech.com/support and access our comprehensive selection of online tools, documentation, and downloads.

For the latest drivers/software, please visit www.startech.com/downloads

# Warranty Information

This product is backed by a two year warranty.

In addition, StarTech.com warrants its products against defects in materials and workmanship for the periods noted, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

**Limitation of Liability**

In no event shall the liability of StarTech.com Ltd. and StarTech.com USA LLP (or their officers, directors, employees or agents) for any damages (whether direct or indirect, special, punitive, incidental, consequential, or otherwise), loss of profits, loss of business, or any pecuniary loss, arising out of or related to the use of the product exceed the actual price paid for the product. Some states do not allow the exclusion or limitation of incidental or consequential damages. If such laws apply, the limitations or exclusions contained in this statement may not apply to you.

StarTech.com
Hard-to-find made easy®

# StarTech.com

## Hard-to-find **made easy**®

Hard-to-find made easy. At StarTech.com, that isn't a slogan. It's a promise.

StarTech.com is your one-stop source for every connectivity part you need. From the latest technology to legacy products — and all the parts that bridge the old and new — we can help you find the parts that connect your solutions.

We make it easy to locate the parts, and we quickly deliver them wherever they need to go. Just talk to one of our tech advisors or visit our website. You'll be connected to the products you need in no time.

Visit www.startech.com for complete information on all StarTech.com products and to access exclusive resources and time-saving tools.

*StarTech.com is an ISO 9001 Registered manufacturer of connectivity and technology parts. StarTech.com was founded in 1985 and has operations in the United States, Canada, the United Kingdom and Taiwan servicing a worldwide market.*