# 1T-DA-500 Series
## DVI-D Distribution Amplifiers (HDMI Compatible)

### Key Features 1T-DA-500 Series

- Multiple DVI Outputs from a single source
- DVI-D 1.0, HDMI 1.3 & HDCP 1.1 Compliant
- Distribution of 2 or 4 Outputs.
  (1T-DA-552/554)
- 1x4 Stereo & 1x4 S/PDIF Audio
  (1T-DA-564)
- Dolby Digital+, Dolby® Digital TrueHD
  & DTS-HD
- 10/12 bit Color Depth Display
- PC & HDTV resolutions up to 1920x1200,
  1080p
- Supports HDMI - Opt DVI to HDMI Adaptors
- Signal Equalization for longer cable runs
- Supports Automatic Discovery of Monitor
  EDID
- 3D Compatible
- Locking DC Connectors for security
- Optional Rackmount Kits

**1T-DA-552**, **1T-DA-554**, **1T-DA-564 DVI-D Distribution Amplifiers** provide multiple outputs from a single DVI input for distribution to devices capable of receiving and/or displaying such signals. The 1T-DA-552 provides 2x DVI outputs and the 1T-DA-564 provides 4x DVI outputs. The 1T-DA-564 provides 4x DVI outputs plus 4x Analog Stereo and 4x S/PDIF Coaxial Audio outputs. Each product in this series is compliant with HDMI v1.3 specifications and provides a cutting-age technology that supports Deep Color (10-bit and12-bit) video plus new, lossless Dolby TrueHD, Dolby Digital + and DTS-HD Master Audio digital audio. In addition, all devices exhibit high bandwidth (up to 225MHz - 2.25Gbps) and provide signal amplification and equalization for high performance processing of audio and video allowing the signals to travel great distances without quality loss.

A front panel switch allows the EDID reference to be selected from either a connected display on a priority basis or from an internal resolution look-up table. All DAs can also be cascaded for expanded functionality and all DVI Distribution Amplifiers can function as HDMI Distribution Amplifiers using cable adapters. An optional Rack Mounting kit is available for mounting either one or two DVI DAs in a 19" Rack.

High Definition Multimedia Interface. HDMI is the first and only digital interface to combine uncompressed high-definition video, multi-channel audio and intelligent format and command data in a single digital interface. For your end-users, use of a single cable for audio and video dramatically simplifies home theater system installation and eliminates the cable quagmire typically associated with home theater system components. TV One is an HDMI Adopter.

High Definition Content Protection. HDCP is a specification developed by Intel Corporation to protect digital entertainment content across the DVI/HDMI interface. The HDCP specification provides a robust, cost-effective and transparent method for transmitting and receiving digital entertainment content to DVI/HDMI-compliant digital displays. TV One is an HDCP licensee

# Distribution Amplifiers

# 1T-DA-500 Series Specifications

## Video Inputs
(All Models)                 1x DVI-D via DVI-I Connector

## Video Output
1T-DA-552                    2x DVI-D via DVI-I Connectors
1T-DA-554 & 564              4x DVI-D via DVI-I Connectors

## Audio Input/Outputs (1T-DA-564 Only)
Format                       Analog Stereo and S/PDIF
Analog Stereo In             1x via Stereo 3.5mm Mini Stereo
Analog Stereo Out            4x via Stereo 3.5mm Mini Stereo
S/PDIF In                    1x Via RCA Coaxial
S/PDIF Out                   4x Via RCA Coaxial
Audio Bandwidth              20Hz to 20 KHz
Audio Impedance              20KΩ Stereo, 75Ω S/PDIF
Audio Levels                 Unity, Nominal, S/PDIF .5-1V p-p

## General
Freq. Bandwidth              2.25Gbps (HDMI Single Link)
Color Depth                  10/12 bit Color Depth Display
PC/DVI resolutions           Up to 1920x1200
HDTV Formats                 480p, 576p, 720p, 1080i, 1080p
SDTV Formats                 480i, 576i
Compliance                   DVI 1.0, HDMI V1.3, HDCP V1.1
Signal Equalization          Internal

## Maximum Distances
Source to DA                 20 meters (60') for 1080p/8-bit
                             15 meters (45') for 1080p/12-bit
DA to Display                15 meters (45') for 1080p/8-bit
                             10 meters (30') for 1080p/12-bit

## EDID Processing
Discovery Method             Automatic or Internal Reference

## Warranty
Limited Warranty             3 Years Parts and Labor

## Mechanical
Size (H-W-D)                 41.5x218x147mm (1.6x8.6x5.8")
Weight (Net)                 0.85kg (1.88lbs)

## Environmental
Operating Temperature        0° to +50°C (+32° to +122°F)
Operating Humidity           10% to 90%, Non-condensing
Storage Temp.                0° to +50°C (+32° to +122°F)
Storage Humidity             10% to 90%, Non-condensing

## Power Requirement
Ext. Power Supply            5VDC@2A

## Regulatory Approvals
DVI DAs                      FCC, CE, RoHS
Power Supply                 UL, CUL, CE, PSE, GS, RoHS

## Accessories Included
1x AC Power Adapter          US, UK or Euro
1x Instruction Manual
1x Accessory Pack

## Optional Accessories
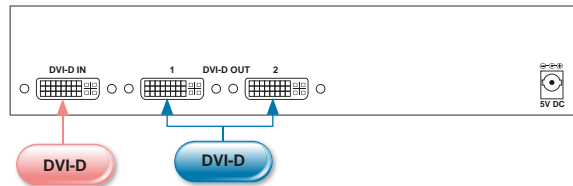RM-220                       Single/Dual Rackmount Kit

## Product Item Numbers
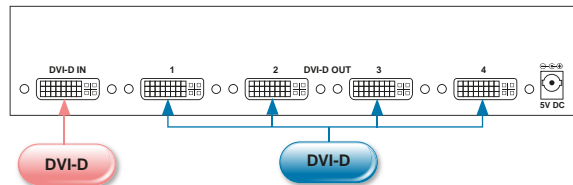1T-DA-552                    1x2 DVI DA
1T-DA-554                    1x4 DVI DA
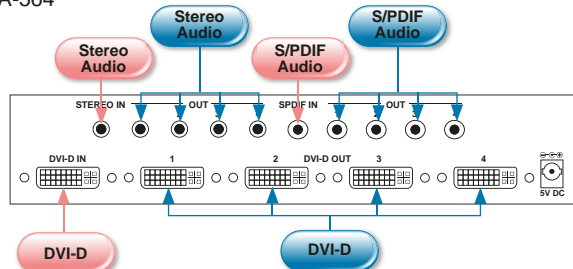1T-DA-564                    1x4 DVI DA with Audio

---

1T-DA-552



1T-DA-554



1T-DA-564