

Welcome!

We greatly appreciate your purchase of the DA1907LX Ditto-Amp. We are sure you will find it reliable and simple to use. Superior performance for the right price, backed by solid technical and customer support is what ALTINEX has to offer.

We are committed to providing our customers with Signal Management Solutions® to the most demanding audiovisual installations at very competitive pricing and we welcome you to join the ranks of our many satisfied customers throughout the world.

1. Precautions and Safety Warnings

Please read this manual carefully before using your DA1907LX. Keep this manual handy for future reference. These safety instructions are to ensure the long life of your DA1907LX and to prevent fire and shock hazards.

Please read them carefully and heed all warnings.

1.1 General

- Qualified ALTINEX service personnel or their authorized representatives must perform all service.

1.2 Installation Precautions

- To prevent fire or shock, do not expose this unit to water or moisture. Do not place the DA1907LX in direct sunlight, near heaters or heat-radiating appliances, or near any liquid. Exposure to direct sunlight, smoke, or steam can harm internal components.
- Handle the DA1907LX carefully. Dropping or jarring can damage the unit.
- Do not pull any cables that are attached to the DA1907LX.

2. Installation Procedures

- Step 1. Connect the +9V AC adapter input to AC voltage and the output plug to the DA1907LX. Verify the LED in the top right corner of the unit's front panel turns on and RED.
- Step 2. Connect the video output from the computer to the computer input connector on the DA1907LX using the cable provided. If a longer cable is required, make sure that the cable uses internal coaxial cables and that the cable is not excessively long.
- Step 3. Verify the LED on the face of the unit changes from RED to GREEN indicating an active signal is present. If the LED is not GREEN, the computer may not be sending video signals.
NOTE: If using a laptop computer, the laptop may need to be set to output the display on the external video port manually.
- Step 4. Connect the display devices (monitors and/or projectors) to Outputs 1 & 2 of the DA1907LX.
- Step 5. Verify the picture quality on both displays is good. If there is no signal, make sure that the display is compatible with the resolution of the computer graphics card.
- Step 6. The DA1907LX is now operational.

3. Limited Warranty/Return policies

Please see the ALTINEX website at www.altinex.com for details on warranty and return policies.

1.3 Cleaning

- Clean only with a dry cloth. Never use strong detergents or solvents such as alcohol or thinner. Do not use a wet cloth or water to clean the card.

1.4 FCC Notice

- This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.
- This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions found herein, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.
- Any changes or modifications to the unit not expressly approved by ALTINEX, Inc. could void the user's authority to operate the equipment.

4. Technical Specifications

Specifications are subject to change. See www.altinex.com for up-to-date information.

Features/Description	DA1907LX
General	
Inputs	
Input Connector	15-pin HD female (1)
Outputs	
Outputs 1 & 2	15-pin HD Female (2)
Power	
DC Power	2.5 mm jack (1)
Compatibility	
Signal Types	RGB, RGsB, RGSB, RGBHV, YPbPr, MAC, SUN, SGI
Video Signal Resolutions	VGA through UXGA and 480p through 1080i
Accessories Included	
3 ft (1 m) Video Cable	15-pin HD M-M
Power Adapter	+9VDC, 1.1 A

Table 1. DA1907LX General

Mechanical	DA1907LX
Material	0.1 in Al
Finish	Gray
Top Panel	Lexan
Height	3.0 in (76 mm)
Width	4.5 in (114 mm)
Depth	1.0 in (25 mm)
Weight	0.5 lb (0.2 kg)
Shipping Weight (approx.)	1.0 lb (0.5 kg)
T° Operating	10°C-35°C
T° Maximum	45°C
Humidity	90% non-condensing
MTBF (calculations)	40,000 hrs

Table 2. DA1907LX Mechanical

Electrical	DA1907LX
Input Video Signal	
Analog Signal Level	1.5 Vp-p max
Impedance	75 ohms
Coupling	DC
Input Sync Signal	
Horizontal/Vertical or Composite	TTL (+/-)
Sync on Green	-0.3 V
Impedance	10 kohms
Output Video Signals	
Gain	0 dB +/- 0.5 dB
Impedance	75 ohms
Coupling	DC
Output Sync Signals	
Horizontal/Vertical or Composite	TTL (+/-)
Sync on Green	-0.3 V
Impedance	10 kohms
Power Consumption	
External Adapter: 9 VDC	280 mA (2.5 W max.)

Table 3. DA1907LX Electrical

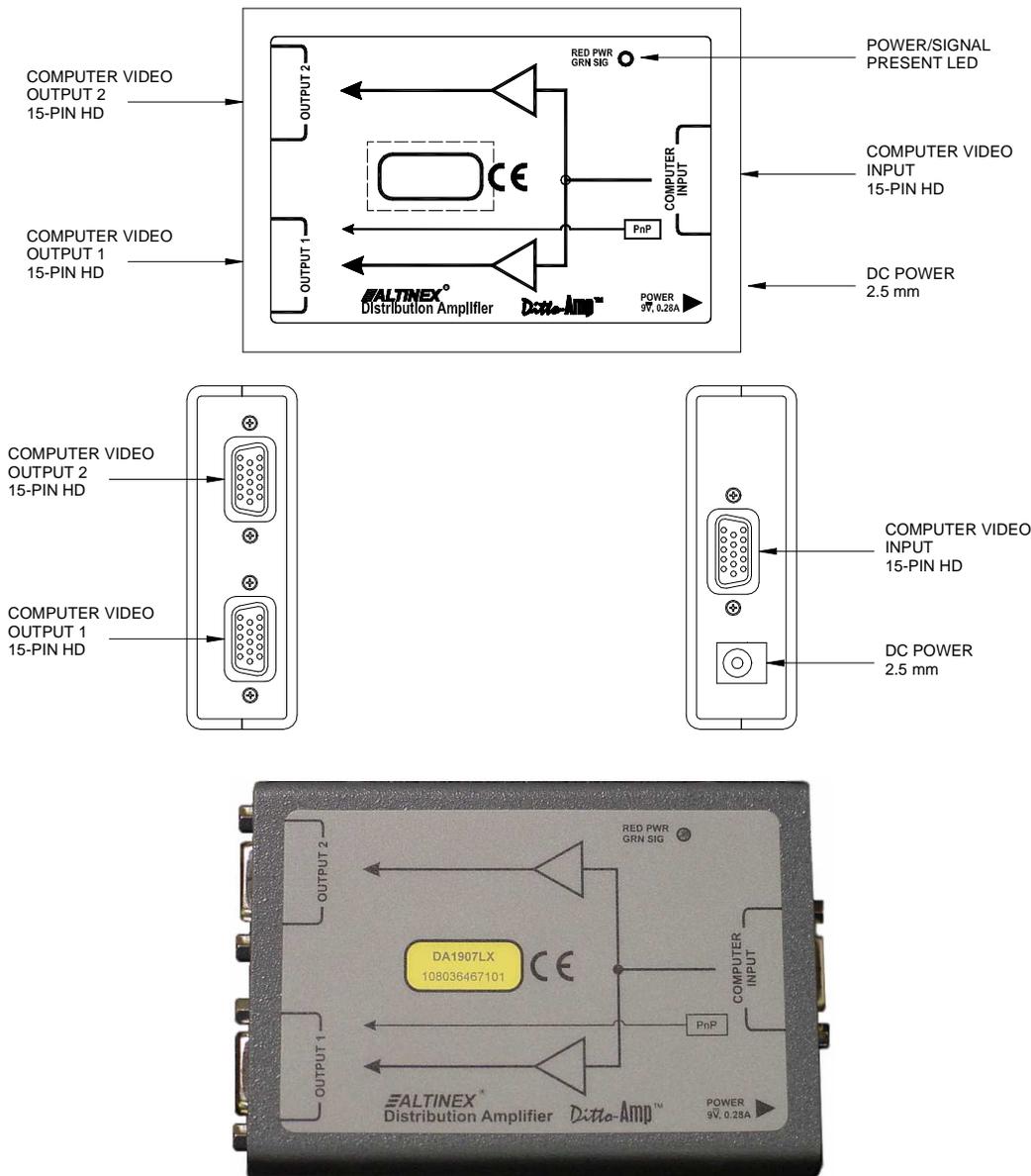
5. About Your DA1907LX

The DA1907LX (Ditto-Amp) is a high-resolution, 1-In 2-Out Distribution Amplifier designed to allow the connection of a single VGA-UXGA source to up to two scan-rate compatible displays. Very high-resolution video signals are able to pass without degradation in the image quality.

The DA1907LX offers a female 15-pin HD input featuring native Plug & Play compatibility with Output 1. An internal Plug & Play memory option may be selected at purchase for applications where using the Plug & Play feature of the remote device is not desired.

Compact and easy to use, the DA1907LX is perfect for audiovisual installations where a single computer needs to be connected to a projector (or presentation monitor) and a local monitor simultaneously. The DA1907LX has female 15-pin HD (VGA-type) connectors on all input and output connectors so it can be used with readily available standard VGA-type cables. If desired, the input and/or output of the DA1907LX can be easily adapted to 5 BNC connectors through ALTINEX adapter cables.

The DA1907LX is compatible with RGSB, RGBS, and RGBHV signal types, and using the proper cable type the DA1907LX can be used with MAC, SUN, or SGI platform computers.



6. Application Diagrams

Diagram 1: Typical Setup

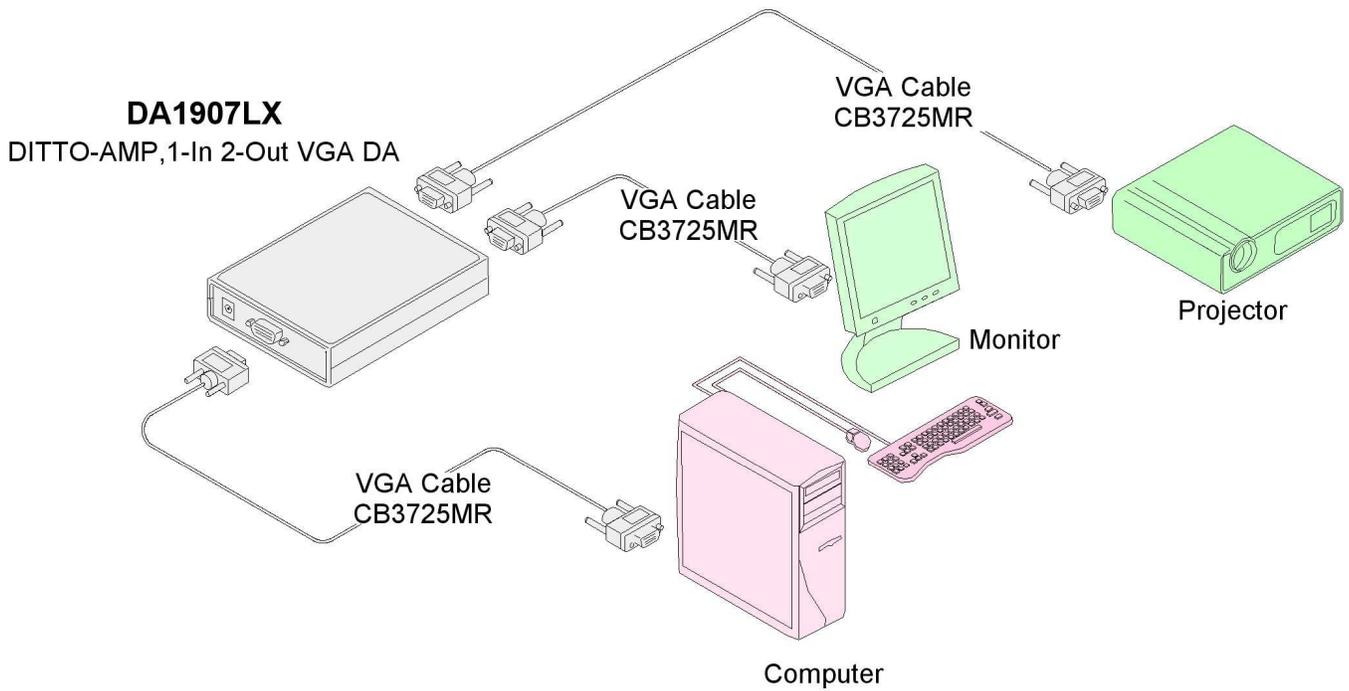
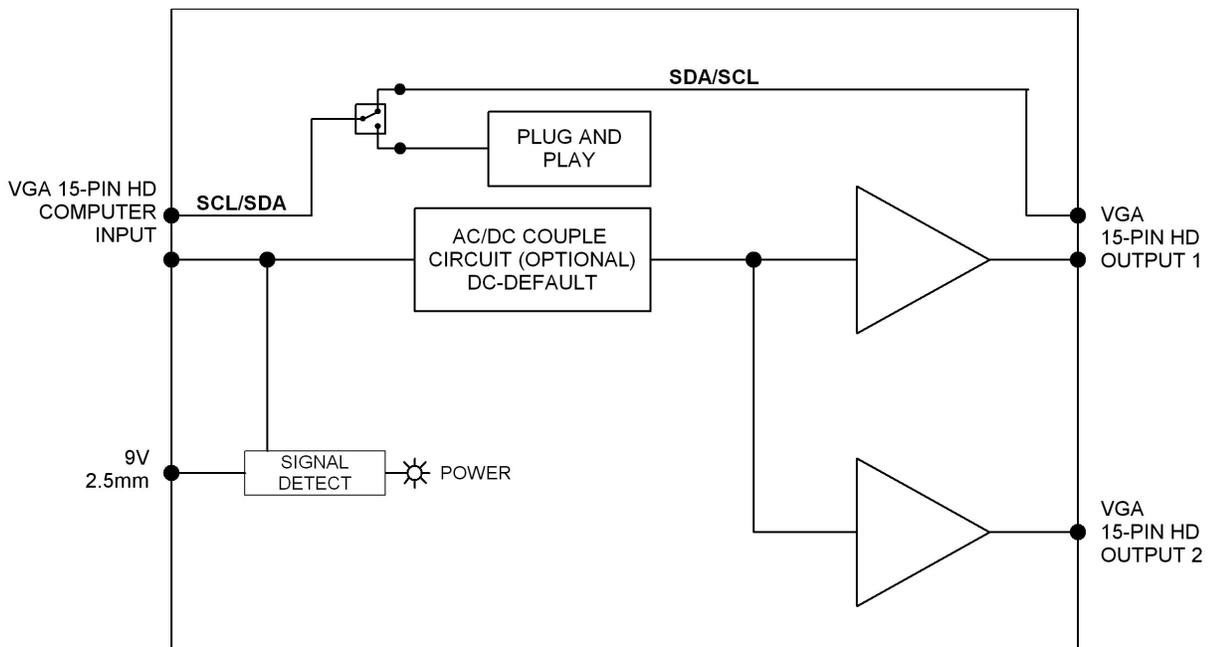


Diagram 2: Internal View



7. Operation

The DA1907LX requires no adjustments for optimal performance. Once set-up, the DA1907LX will work trouble-free without user intervention.

8. Troubleshooting Guide

We have carefully tested and have found no problems in the supplied DA1907LX; however, we would like to offer suggestions for the following:

8.1 LED is Not Red

The LED should be ON and RED when power is applied and ON and GREEN when the unit is receiving power and a SYNC signal.

Cause 1: There is no AC power.

Solution: Verify the supplied adapter is plugged into a working AC outlet and that the outlet has power.

Cause 2: The adapter is not connected.

Solution: Verify the DC power plug coming from the AC adapter is plugged all the way into the DA1907LX.

Cause 3: The DA1907LX has a problem.

Solution: If there is AC power to the adapter and the LED still does not turn on, the DA1907LX or the power adapter may require service. Please call ALTINEX at (714) 990-2300.

8.2 LED is Not Green

Cause 1: There is no power.

Solution: Disconnect the video input from the DA1907LX and verify the LED is ON and RED indicating power is present. Reconnect the computer's video output. If the LED is still not GREEN see Cause 2.

Cause 2: There is no sync signal.

Solution: Verify the computer output is operating correctly by connecting it directly to a local monitor. If the display is good, call ALTINEX at (714) 990-2300.

8.3 No Remote Image

Cause 1: The source has a problem.

Solution: Check the image on a local monitor and verify the quality is good. If the local image is good, see Cause 2.

Cause 2: Cable connections are incorrect.

Solution: Make sure that all the cables are connected properly and that the continuity and wiring are good. If there is still no image, call ALTINEX at (714) 990-2300.

8.4 Poor Image Quality

Cause 1: The source has a problem.

Solution: Check the image on the local monitor and verify the quality is good. If the local image is good, see Cause 2.

Cause 2: Signal transmission is poor.

Solution: Check the cables for continuity and make sure that connections are wired properly. If the image is still not correct, call ALTINEX at (714) 990-2300.