

# **La Diva**

# **CD Transport**

**Owner's Manual**

**Rev 1.0**

**aqua**  
acoustic quality

## IMPORTANT SAFETY NOTICES



The triangle with the lightning flash symbol displayed on the unit advises the user of dangerous uninsulated voltage inside the product's enclosure.

To reduce the risk of electric shock, do not remove the cover.

The triangle with the exclamation point symbol on the component suggests that the owner refer to important operating and maintenance instructions in the owner's manual.

### WARNING

Modifications and alterations not approved by the manufacturer may violate adherence to EC regulations and make the appliance no longer suitable for use. The manufacturer declines all responsibility for damage caused to persons or property due to the misuse or malfunction of device subject to unauthorized change.

#### LASER SAFETY

This unit employs a laser. Only a qualified service person should remove the cover or attempt to service this device, due to possible eye injury.

**CAUTION : USE OF CONTROLS OR ADJUSTMENTS OR PERFORMANCE OF PROCEDURE OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.**

### CAUTION

In order to make changes that improve the already excellent quality of its products, Aqua - Acoustic Quality reserves the right to modify the information or the contents of this manual at any time and without notice.

# WARRANTY

Aqua - Acoustic Quality audio products are warranted to be free from manufacturing defects for five (5) years from the original date of purchase. The warranty includes parts and labour. In the event of a defect or malfunction, contact your dealer or Aqua – Acoustic Quality directly for return authorization. Aqua - Acoustic Quality will remedy the problem by repair or replacement, as we deem necessary, to restore the product to full performance. Aqua - Acoustic Quality will pay return shipping costs for the full length of the specific product's warranty. Products must be returned using original packaging material only. Packing material may be purchased from Aqua - Acoustic Quality if necessary. This warranty is considered void if the defect, malfunction or failure of the product or any component part was caused by damage (not resulting from a defect or malfunction) or abuse while in the possession of the customer. The warranty excludes the following components:

-Audio tubes

-NOS (New Old Stock) Components

**CAUTION:** Changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate the equipment.

## GENERAL SAFETY INFORMATION

The following general safety precautions must be observed during all phases of operation of this equipment. Failure to comply with these precautions or with specific warnings elsewhere in this manual violates safety standards of design, manufacture, and intended use of the equipment. Aqua - Acoustic Quality assumes no liability for the customer's failure to comply with these requirements.

- DO NOT operate the product in an explosive atmosphere or in the presence of flammable gases or fumes. For continued protection against fire, replace the line fuse(s) only with fuse(s) of the same voltage and current rating and type. DO NOT use repaired fuses or short-circuited fuse holders.
- Keep away from live circuits. Operating personnel must not remove equipment covers or shields. Procedures involving the removal of covers or shields are for use by service-trained personnel only. Under certain conditions, dangerous voltages may exist even with the equipment switched off. To avoid dangerous electric shock, DO NOT perform procedures involving cover or shield removal unless you are qualified to do so.
- DO NOT operate damaged equipment. If the built-in safety protection features have been impaired through physical damage, excessive moisture, or any other reason, REMOVE POWER and do not use product until safe operation is verified by service-trained personnel. If necessary, return the product to Aqua - Acoustic Quality for service and repair to ensure that the safety features are maintained.
- DO NOT service or adjust alone. Do not attempt any internal service or adjustment unless a person capable of rendering first aid and resuscitation is present.
- DO NOT substitute parts or modify equipment. To avoid the occurrence of additional hazards, do not install substitute parts or perform any unauthorized modification to the product. Return the product to Aqua - Acoustic Quality for service or repair to ensure that the safety features are maintained.

## **In This Guide...**

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## 1. Unpacking

To protect the top loading tray mechanism from damage in transit, it has been blocked by spongy material.

**IMPORTANT** : If the CD transport subsequently needs to be transported, these protections should be reinstalled.

### PACKING MATERIAL

Please retain the original box for re-use in case your equipment ever needs to be transported. The packing material has been especially designed to protect your valuable equipment from mechanical shock in transit.

## 2. Operation and Features

Make sure the supplied voltage is the one required by the device. Please ensure the quality of the connecting cables, paying particular attention the coaxial / AES EBU digital cable. Often, numerous tests have revealed the importance of this cable for obtaining the best sound quality.

### Key features

- High performance proprietary ISDC (Isolated Synchronous Discrete Circuit) digital decoding and clock manager
- Custom designed discrete circuit with high-speed photocouplers for Galvanic and magnetic isolation between CD drive unit and digital output
- Ultra massive chassis construction and newly developed high-rigidity sub chassis with Nextel for CD drive unit cancels internal and external acoustic and mechanical vibrations, enabling exceptionally accurate "Red Book" RF signal
- DC disc drive motor allows to read the data accurately and minimize Jitter
- Moplen clamp to avoid flywheel masses and vibrations
- Sophisticated signal processing technology assures excellent CD Red Book signal
- High-performance multi-stage voltage regulator (high-current stage for accurate servo DISC drive rotation, tracking and focus)
- Jitter free digital interface AQLink (I2S protocol), uncompromising digital connection to La Scala DAC, La Voce DAC
- etherCON RJ45 (AQLink) output connection to DAC, employs CAT6 cable can connect both RJ45 and professional etherCON RJ45
- Separate custom-built toroidal transformers for digital and servo motors/actuators
- MODULAR DESIGN with upgradeable multi board system
- Precision Philips CD-Pro2 transport customized
- High-quality parts selected for sound quality:
  - 105° long life capacitors
  - low noise Metal Foil ultra-precision resistors
  - metallized film pulse capacitor
  - ultra-fast diodes
  - halogen free cables

- Aluminium top loading tray machined from billet
- Non-magnetic low-resonance aluminium chassis with Nextel
- Field upgradeable firmware
- Fluorescent display (VFD) with user off-selectable illumination
- Designed and handmade in Italy

### 3. Specifications

Disc Compatibility	CD, CD-R
CD Formats	Red Book
Drive mechanism	PHILIPS CD-PRO2 Customized
Pick-Up Technology	TRIGINTA preamplifier & Laser supply
Optical	Single focault - 3 beam method
Disc Drive Motor	Precision DC Motor
Servo power supply	High-performance voltage regulator (high-current)
Digital decoder	Proprietary ISDC
Digital isolators	Custom designed discrete circuit with high-speed photocouplers
Digital Output	2 S/PDIF 75 $\Omega$ : - 1 coaxial BNC - 1 coaxial RCA 1 AES/EBU (XLR) 110 $\Omega$ 1 AQlink - I2S serial bus (etherCON RJ45) 1 AT&T (ST Fiber)
Word Clock Output	1 coaxial BNC 75 $\Omega$
AQlink (I2S bus)	CMOS level
Native Sample Rate	16 bit / 44.1 KHz
Front Panel	Standby, Display, Play, Pause, Stop, Previous, Next Switches
Display	Fluorescent display (VFD) with user off-selectable illumination
Remote Control	Infra Red (RC5)
Power Consumption	100-115V / 220-240V; 50 or 60Hz - 38VA
Disc loading	Top-Loading (Manual)
Dimensions	( W x D x H ) 450 x 370 x 100 mm
Weight	10 kg
Front finish	Satin Alu Silver or Satin Black
Case finish	Grey Nextel powder coated

## 4. Front panel

On the front panel, you will find:

- Power on/off switch
- Display on/off switch
- LED power indicator
- Play switch
- Pause switch
- Stop switch
- Previous switch
- Next switch
- Display

### 1. Back panel

On the rear panel, you will find:

- IEC connector of the power supply (220-240V or 100-120V).
- Digital outputs :
  - etherCON RJ45 - AQLink (I2S serial bus)
  - XLR AES/EBU
  - BNC coax (S/PDIF)
  - RCA coax (S/PDIF)
  - ST fiber (AT&T)
  - BNC word clock

## PIN ASSIGNMENT

The pin assignments of XLR-type male outputs are as follows:



- Pin 1: Signal ground
- Pin 2: Signal + (non-inverting)
- Pin 3: Signal - (inverting)
- Connector ground lug: chassis free



Handcrafted in Italy



aqua - acoustic quality

[www.aquahifi.com](http://www.aquahifi.com)  
[info@aquahifi.com](mailto:info@aquahifi.com)