



ELECTROCOMPANIET

If music really matters...



ECD 1

Owner's Manual



Owner's Manual

ECD 1

24 Bit Upsampler 192kHz DAC

Warning:

To avoid risk of fire or electric shock, do not expose this appliance to rain or moisture.

Verify line voltage before use.

Do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

The warranty is void if the product is tampered with by non-authorized personnel.

Use only authorized Electrocompaniet service center.

Welcome to the world of Electrocompaniet

We sincerely thank you for selecting an product from Electrocompaniet. We hope you will enjoy years of listening pleasure and true High End musical performance from your audio system. Kindly read this owners manual to familiarize yourself with the set before operation.

The Electrocompaniet Story

Electrocompaniet was founded in 1973 in Oslo, Norway, to manufacture an amplifier designed by Per Abrahamsen. The design was based upon a new approach to transistor amplifier design developed by Dr. Matti Ojala and Jan Lohstro.

It had long been recognised that transistor amplifiers had a characteristic sound that many audiophiles and music lovers found unnatural.

Dr. Ojala and Mr. Lohstro analysed transistor amplifiers to determine what actually created the "transistor sound" in general transistorised designs.

The results of their innovative design work were incorporated in the first Electrocompaniet design - the legendary 25-watt amplifier.

It was the first commercial transistor amplifier to use this new design approach.

The amplifier was immediately recognised as dramatically more musical than any other transistor amplifier at the time.

This design philosophy has been constantly updated through continuous research and development. The philosophy prevails with all Electrocompaniet products.

Skilled technicians and craftsmen carefully create all Electrocompaniet products.

The products are extensively tested for maximum performance and reliability.

Electrocompaniet has always given the highest priority to extensive listening test for all its designs. Every product designed by our engineers must meet a variety of exacting standards, set by a listening panel that is carefully selected to represent a cross-section of musical taste and experience. Electrocompaniet designs go back and forth between the design laboratory and the listening panel until both the engineers and the listeners are satisfied with the end results.

Our quality products are sold throughout the world and provide the ultimate in listening pleasure to discriminating music lovers.

Unpacking the ECD 1

Immediately upon receipt of the ECD 1, inspect the carton for possible damage during shipment. The carton and packaging have been designed to provide the safest possible protection for the transport of your product. Unpack the unit carefully. Save all packaging materials for future shipment.

The contents of the carton

1 pcs Electrocompaniet ECD 1
1 pcs AC mains cord
1 pcs inspection card

Setup procedure

Before connecting the ECD 1 to the mains, check that the mains voltage indicated on the rear panel corresponds to the line voltage in the territory you intend to use the unit.

How to avoid damages

Do not under any circumstances connect or disconnect equipment when power is turned on. The design of the RCA plug generates a huge transient when inserted. Connecting or disconnecting equipment with the power on can result in severe damage to both speaker and amplifier.

How to avoid noise problems

The ECD 1 contains delicate circuits that are sensitive to magnetic strayfields. The unit should not be placed near mains transformers, TV sets etc. Care should be taken regarding placement of the interconnect cables. Do not run interconnect cables in parallel with main cords or speaker cables. Keep interconnect and speaker cables as short as possible.

How to avoid antenna problems

In some set-ups hum may occur when you connect the radio, VCR or TV to your system. The problem is caused by DC voltage coming from your antenna. Please contact your cable network operator.

How to connect your system

Please read this page carefully and follow page 10-12.

Inputs

All digital inputs are electrical equal, and will accept the following:

RCA	(S/PDIF)
XLR	(AES/EBU)
OPTICAL	(TOSLINK)

Outputs

Analogue outputs

XLR	(BALANCED)
RCA	(SINGLE ENDED)

Digital outputs

RCA and OPTICAL (S/PDIF,TOSLINK)

Both outputs may be used simultaneous.

The output will follow the selected input.

The ECD 1 can be used as a switch for multi-channel source (DVD).

See page 12

How to power up your system

You should always power up your system the following way:

Signal sources (CD player, tuner,dac etc.) first. Then turn on the preamplifier. Allow 30 seconds of preheating before you turn on the power amplifier. After switching on the power amplifier, there will be a 5 seconds delay before the speakers are connected. This will prevent large turn on/off transients to reach the speakers.

When turning your system off, you should start by switching off your power amplifier, then the preamplifier, and finally the signal source devices.

Warning

The product will be warm.

Due to the high class A operating point used in the Electrocompaniet design, it is normal that the product feels warm. Proper ventilation will be needed, and the product should not be covered in. A good rule is to allow 1-2 inches of air sidewise, and 2-3 inches above the product.

Technical Specification ECD 1

The following technical data were measured on randomized test objects and are typical data.

All measurements are made at 120V / 240V // 50Hz / 60Hz

Analog stage

Output level (unbalanced).....	1,6 V
Output level (balanced).....	3,2 V
Gain (unbalanced).....	1.6 X (4 dB)
Gain (balanced).....	3.2 X (10 dB)
Maximum output (balanced).....	> 14 V RMS
THD (1 V out, 1 kHz).....	< 0.002 %
Channel separation (1 V out, 1 kHz).....	> 90 dB
Equivalent input noise.....	4 uV
Output impedance.....	100 Ohm
Analog filter (-3 dB).....	75 kHz

Digital stage

Dig.inputs.....	XLR-AES/EBU, RCA, OPTICAL TOSLINK
Dig.outputs.....	RCA, OPTICAL TOSLINK
Dynamic range.....	100 dB
Signal to noise.....	100 dB
THD.....	-100 dB
Frequency response.....	20 Hz - 20 kHz
Input / Output impedance (fixed).....	75 Ohm
Sampling frequency in.....	32 - 48 kHz
Power consume.....	15 W

Dimensions

Width	483mm	(19")
Depth	255mm	(10")
Height	83mm	(3.2")
Weight	5kg	(11lbs)

The manufacturer reserves the right to alter these specifications without further notice

If Service is needed

Your dealer will have all relevant information regarding the service station in your area, and will ensure that your unit is serviced with minimum delay. It is our general policy to have your unit returned to you within five working days. This is an average time, and can vary locally, depending on the workload at that particular service station. If, for some reason, there are no service facilities available in your country, please ship the unit to the following address:

ELECTROCOMPANIET AS,
SOLHEIMVEIEN 36,
BOX 92, N-1471 LØRENSKOG,
NORWAY

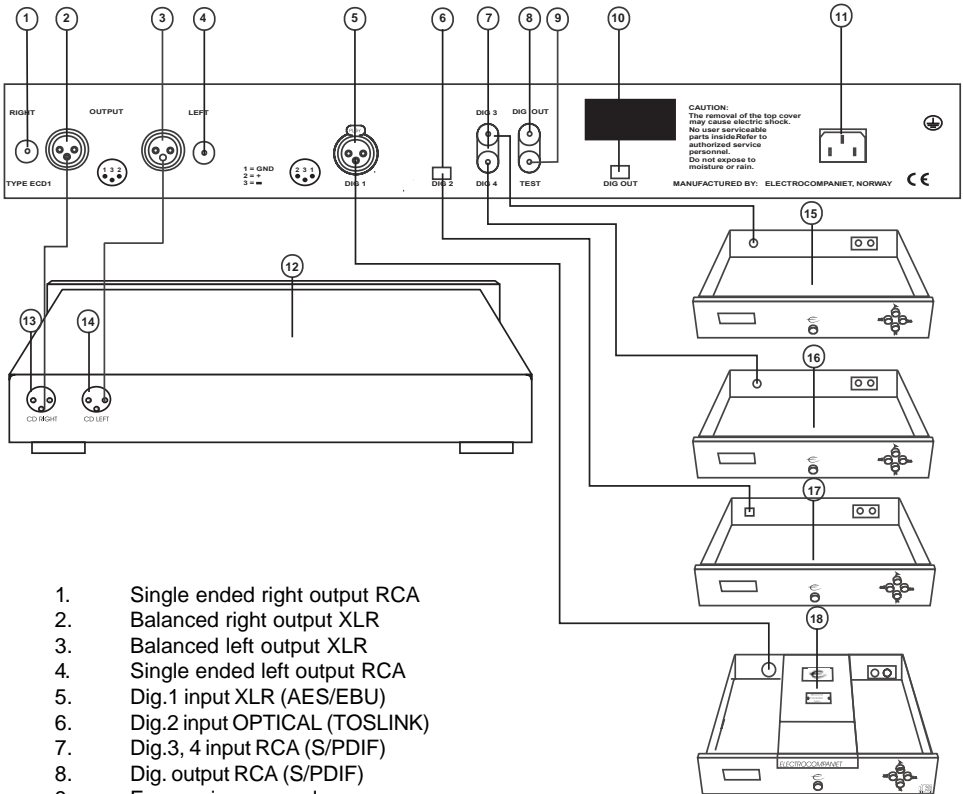
Switchboard: +47 67911750
Service: +47 67911766
Fax: +47 67911760

E-mail: elcomp@electrocompaniet.no
Service department: service@electrocompaniet.no
Web: www.electrocompaniet.com

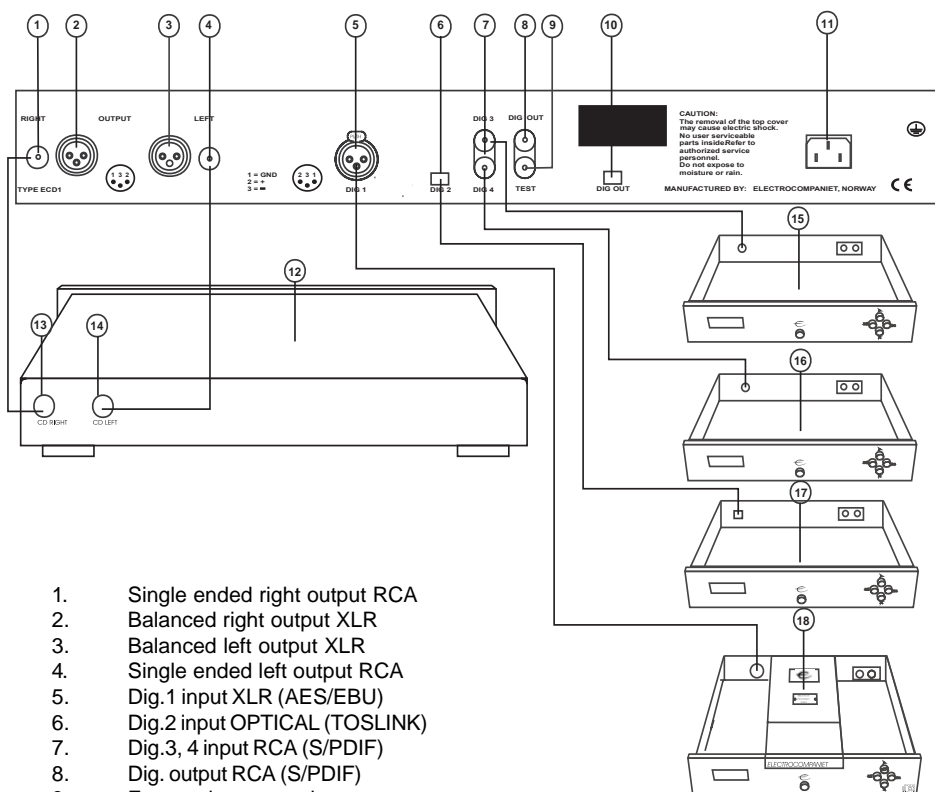
The end-user is responsible for all shipping charges, insurance, re-importation and duty charges. When shipping a product to the factory for service, always include the following:

1. A sales slip or other proof of purchase if repair is claimed under warranty.
2. A proforma invoice with value of goods, stating that the amplifier is returned to Norway for repair.
3. An accompanying letter describing faults, symptoms, or problems with the unit.
4. Always ship the unit in its original carton and packaging material to prevent damage in transit.

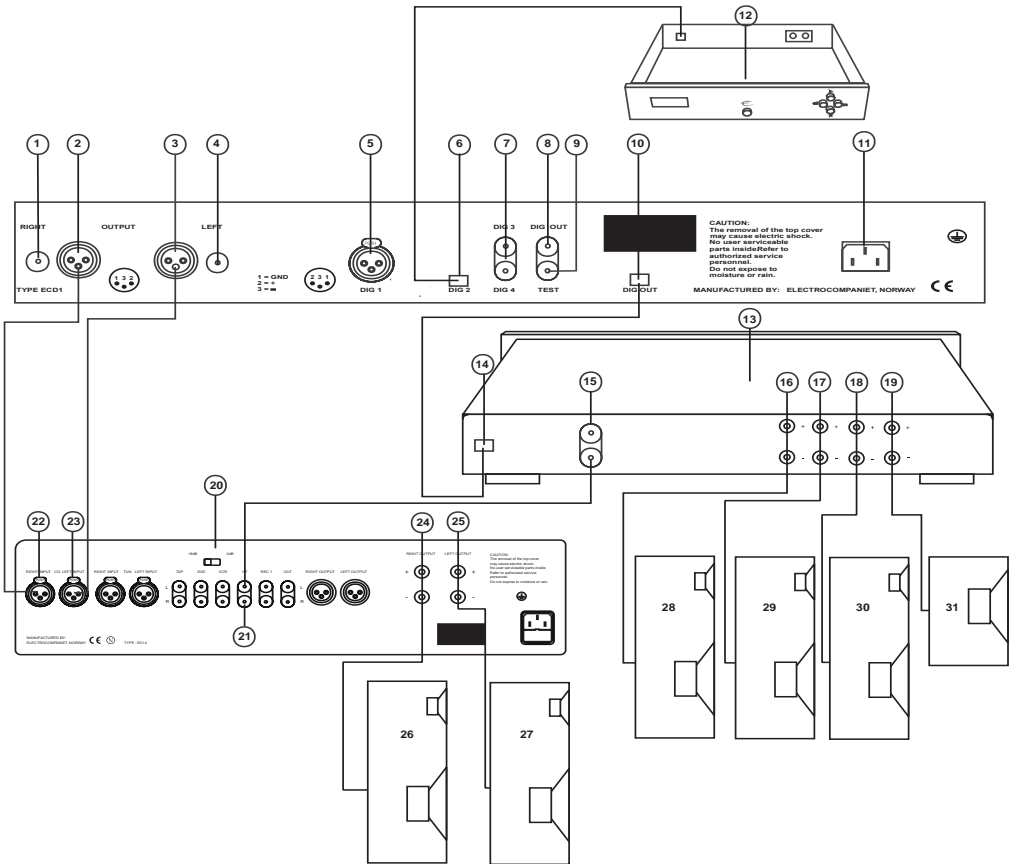
Electrocompaniet will not cover damages incurred in transit. If you require further information concerning the operation of the unit, or if you have any questions related to service, please do not hesitate to contact your dealer or national distributor.



1. Single ended right output RCA
2. Balanced right output XLR
3. Balanced left output XLR
4. Single ended left output RCA
5. Dig.1 input XLR (AES/EBU)
6. Dig.2 input OPTICAL (TOSLINK)
7. Dig.3, 4 input RCA (S/PDIF)
8. Dig. output RCA (S/PDIF)
9. For service use only
10. Dig. output OPTICAL (TOSLINK)
11. Main AC inlet
12. **Balanced Preamp/Integred Amplifier**
13. Balanced right input XLR
14. Balanced left input XLR
15. **Digital Versatile Disc player (DVD)**
16. **Laser Disc player (LD)**
17. **Digital Audio Tape player (DAT)**
18. **Compact Disc player (CD)**



1. Single ended right output RCA
2. Balanced right output XLR
3. Balanced left output XLR
4. Single ended left output RCA
5. Dig.1 input XLR (AES/EBU)
6. Dig.2 input OPTICAL (TOSLINK)
7. Dig.3, 4 input RCA (S/PDIF)
8. Dig. output RCA (S/PDIF)
9. For service use only
10. Dig. output OPTICAL (TOSLINK)
11. Main AC inlet
12. **Preamplifier/Integrated Amplifier**
13. Balanced right input XLR
14. Balanced left input XLR
15. **Digital Versatile Disc player (DVD)**
16. **Laser Disc player (LD)**
17. **Digital Audio Tape player (DAT)**
18. **Compact Disc player (CD)**



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|-----|--|-----|---|
| 1. | Single ended right output RCA | 16. | Right rear output |
| 2. | Balanced right output XLR | 17. | Left rear output |
| 3. | Balanced left output XLR | 18. | Center output |
| 4. | Single ended left output RCA | 19. | Sub. output |
| 5. | Dig.1 input XLR (AES/EBU) | 20. | Pre-amplifier/Integrated Amplifier |
| 6. | Dig.2 input OPTICAL (TOSLINK) | 21. | Home Theater input |
| 7. | Dig.3, 4 input RCA (S/PDIF) | 22. | Balanced right input XLR |
| 8. | Dig. output RCA (S/PDIF) | 23. | Balanced left input XLR |
| 9. | For service use only | 24. | Right front output |
| 10. | Dig. output OPTICAL (TOSLINK) | 25. | Left Front output |
| 11. | Main AC inlet | 26. | Right front loudspeaker |
| 12. | Digital Versatile Disc player (DVD) | 27. | Left front loudspeaker |
| 13. | Surround Receiver/Preamplifier | 28. | Right rear loudspeaker |
| 14. | Dig input (Dolby Digital,DTS) | 29. | Left rear loudspeaker |
| 15. | Pre-out Front | 30. | Center loudspeaker |
| | | 31. | Sub. loudspeaker |

