



ELECTROCOMPANIET

If music really matters...



## EC 4.8

Balanced Reference Preamplifier

Owner's Manual



## **Unpacking the EC 4.8**

Immediately upon receipt of the EC 4.8, inspect the carton for possible damage during shipment.

The carton and packaging have been designed to provide the safest possible protection for transport of your preamplifier.

Unpack the unit carefully. Save all packaging materials for future shipment.

### **The contents of the carton**

1 pcs Electrocompaniet EC 4.8 (preamplifier)

1 pcs AC mains cord.

1 pcs inspection card.

1 pcs remote control

2 pcs batteries

### **Set up procedure**

Before connecting the EC 4.8 to the mains, check that the main voltage indicated on the rear panel corresponds to the line voltage in the territory where 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 speakers and amplifier.

### **How to avoid noise problems**

The EC 4.8 contains delicate circuits that are sensitive to magnetic stray fields.

The unit should not be placed near main transformers, TV sets, etc. Care should also be taken regarding placement of the interconnect cables. Do not run interconnect cables in parallel with main cords or speaker cables. Keep interconnect cables as short as possible.

### **How to avoid possible 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**

**See illustration 1.**

### **Inputs**

#### Single-ended operation:

There are three sets of single ended inputs labelled Tape, Tuner and HT/Aux.

All inputs are similar regarding sonic performance.

Unused inputs may be shorted to ground, using a RCA shorting plug.

#### Balanced operation:

There are two sets of balanced inputs labelled SACD/DVD and CD.

Connect the right channel input to the inputs on the right side of the EC 4.8 and the left channel inputs on the left side of the EC 4.8.

### **Outputs**

#### REC:

Rec outputs are used for recording.

The source you listen to will be monitored through this output.

The volume control setting does not influence the record function.

Never use shorting plugs in outputs.

#### LINE OUT:

The line out is a variable output, dependent on the volume control setting and MUTE function.

These outputs control the power amplifier(s).

#### SPAC:

These contacts are used to communicate with power amplifiers AW 2x120 and AW 3x120.

Connect a SPAC Com cable (sold separately) from SPAC A to one of the amplifier and SPAC B to the other.

When these cables are connected to the amplifiers the EC 4.8 will monitor the vital functions on the amplifiers.

SPAC Multi is reserved for future use.

#### DATA:

Connect an USB cable from the DATA port to a PC to upgrade the software on the EC 4.8.

#### REMOTE CHARGE:

Connect the remote ECT2 (sold separately) to this port to charge the remote.

## **Front panel**

The main switch is located in the centre of the lower part of the front panel.

The four buttons on the right-hand side of the front panel is used to adjust the volume and select the input source.

Use the up and down buttons to adjust the volume, and the left and right buttons to select input source.

### **The available input sources are:**

SACD / DVD :   Balanced operation on source connected to SACD / DVD input.

CD :            Balanced operation on source connected to CD input.

Tuner :         Single ended operation on source connected to Tuner input.

Tape :          Single ended operation on source connected to Tape input.

HT/AUX :       Single ended operation on source connected to HT/AUX input.

In daily operation, switch off the EC 4.8 by turning the volume control down.

When the EC 4.8 is not to be used for a long period of time, use the main switch to turn the unit off.

Then disconnect the AC main cord for maximum safety.

## **Navigator window**

This window on the left-hand side of the front panel shows what source that is currently active and the current listening volume.

## **How to power up your system**

You should always power up your system in the following way:

Signal sources (CD player, tuner, etc.) first, then the EC 4.8.

Allow a 30 seconds warm-up before you turn on the amplifier.

## **When switching off your system**

Start with the amplifier, then the EC 4.8, then the signal sources.

## Input configurations

XLR input: 1 = ground 2 = positive 3 = negative  
RCA: Circle = ground Centre = positive

## Output configurations

XLR output: 1 = ground 2 = positive 3 = negative  
Speaker: Red = positive Black or White = ground  
RCA to XLR adapter: 1 & 3; ground and negative = shorted, 2 = positive

## Technical specifications EC 4.8

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

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

Measurements	Single ended	Balanced
Input impedance	47 kOhm	47 kOhm
Output impedance	100 Ohm	100 Ohm
Maximum gain	6 dB	6 dB
Minimum gain	- 111 dB	- 111 dB
Noise floor (0 dB gain)	< -130 dB	< -130 dB
THD (1V in, 1V out)	-120 dB	-130 dB
Max input	+/- 15Vp-p	+/- 30Vp-p
Max output	+/- 30Vp-p	+/- 30Vp-p
Frequency response	1 – 200 kHz	1 – 200 kHz
Channel separation	> 120 dB	> 120 dB

**Power consumption** (no load or signal) 30 W

The EC 4.8 is **DC** coupled from input to output.

## Dimensions

Width 483 mm  
Depth 368 mm  
Height 76 mm  
Weight 9 kg

Specifications subject to change without further notice.

## **Important Notice**

For optimal sonic performance, the EC 4.8 should be burned in for a minimum time of 72 hours.

If the EC 4.8 has been switched off, allow two hours of warm-up for optimal sonic performance.

Proper ventilation is important.

Never cover the ventilation area.

A good rule of thumb is to allow at least 3 - 5 cm (1 - 2 inches) of air sidewise, and 5 – 8 cm

(2 - 3 inches) above the EC 4.8.

## **If service is needed**

Your dealer will have all relevant information regarding the service centre 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 centre.

If, for some reason, there are no service facilities available in your country, please ship the unit to the following address:

ELECTROCOMPANIET AS,

BREIVIKVEIEN 7,

4120 TAU,

NORWAY

E-mail: [sales@electrocompaniet.no](mailto:sales@electrocompaniet.no)

Web: [www.electrocompaniet.no](http://www.electrocompaniet.no)

Service department: [service@electrocompaniet.no](mailto:service@electrocompaniet.no)

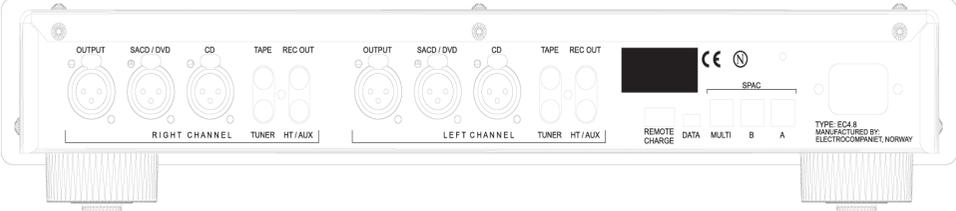
The end-user is responsible for all shipping charges, insurance, and re-importation and duty charges.

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 being 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.

# Illustration 1 – Back panel





Made in Norway

[WWW.ELECTROCOMPANIET.NO](http://WWW.ELECTROCOMPANIET.NO)