



ELECTROCOMPANIET

If music really matters...



EC 4.9

Unpacking the EC 4.9

Immediately upon receipt of the EC 4.9, 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 4.9 (preamplifier)

1 pcs AC mains cord.

1 pcs inspection card.

Set up procedure

Before connecting the EC 4.9 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 4.9 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 and illustration 3

Inputs

Single-ended operation:

All inputs are similar regarding sonic performance.

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

Balanced operation:

There are three set of balanced inputs.

Two set for 6 channel operations, labelled Input 1 and Input 2, and one set for 2 channel operations labelled CD.

Note that the two 6 channel inputs may also be used for 2 channel operations.

Outputs

REC:

Rec outputs are used for recording.

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

The record function is not influenced by the volume control setting.

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 controls 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 amplifiers will automatically switch to mono mode when running 2 channel sources.

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 4.9.

REMOTE CHARGE:

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

Front panel

See illustration 2 and illustration 3.

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:

In 1 :	6 channel balanced operation on source connected to Input 1.
In 1 - 2 Ch :	2 channel balanced operation on source connected to Input 1. Only Front Right and Front Left input will be used.
In 2 :	6 channel balanced operation on source connected to Input 2.
In 2 - 2 Ch :	2 channel balanced operation on source connected to Input 2. Only Front Right and Front Left input will be used.
CD :	2 channel balanced operation on source connected to CD input.
Tuner :	2 channel single ended operation on source connected to Tuner input.
Tape :	2 channel single ended operation on source connected to Tape input.
DVD :	2 channel single ended operation on source connected to DVD input.

In daily operation, switch off the EC 4.9 by turning the volume control down.

When the EC 4.9 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 4.9.

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

When switching off your system

Start with the amplifier, then the EC 4.9, 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 4.9

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 4.9 is **DC** coupled from input to output.

Dimensions

Width:	483 mm
Depth:	405 mm
Height:	125 mm
Weight:	12 kg

Specifications subject to change without notice.

Important Notice

For optimal sonic performance, the EC 4.9 should be burned in for a minimum time of 72 hours.

If the EC 4.9 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 4.9.

If service is needed

Your dealer will have all relevant information regarding the service center 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

Switchboard: +47 51 74 10 33 Fax: +47 51 74 10 10 Service: +47 51 74 10 23

E-mail: sales@electrocompaniet.no

Web: www.electrocompaniet.no

Service department: 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

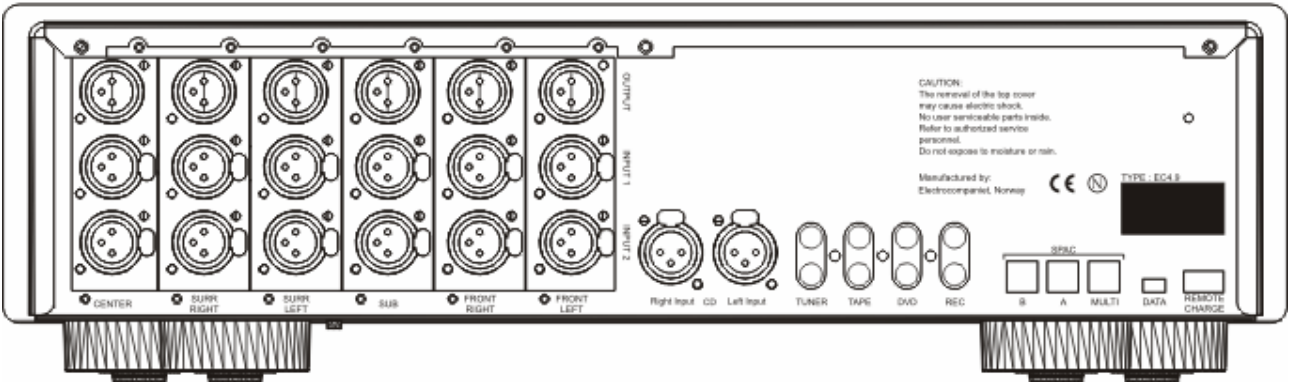


Illustration 2 – Front panel

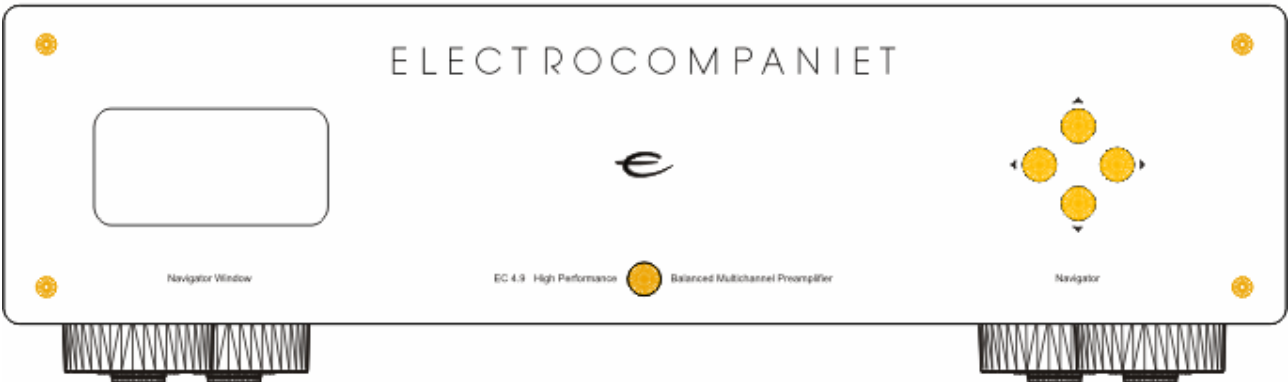


Illustration 3 – Channels used

<i>Source</i>	<i>Input channels used</i>	<i>Output channels used</i>	<i>Additional information</i>
In 1 6 Channel	In 1. Front Left, Front Right, Sub, Surround Left, Surround Right, Centre	Front Left, Front Right, Sub, Surround Left, Surround Right, Centre	
In 1 2 Channel	In 1. Front Left, Front Right	Front Left, Front Right	Multichannel amplifiers will be bridged to mono mode if connected to Spac A or B
In 2 6 Channel	In 2. Front Left, Front Right, Sub, Surround Left, Surround Right, Centre	Front Left, Front Right, Sub, Surround Left, Surround Right, Centre	
In 2 2 Channel	In 2. Front Left, Front Right	Front Left, Front Right	Multichannel amplifiers will be bridged to mono mode if connected to Spac A or B
CD	CD – Balanced	Front Left, Front Right	Multichannel amplifiers will be bridged to mono mode if connected to Spac A or B
Tuner	Tuner – Single ended	Front Left, Front Right	Multichannel amplifiers will be bridged to mono mode if connected to Spac A or B
Tape	Tape – Single ended	Front Left, Front Right	Multichannel amplifiers will be bridged to mono mode if connected to Spac A or B
DVD	DVD – Single ended	Front Left, Front Right	Multichannel amplifiers will be bridged to mono mode if connected to Spac A or B