ELECTROCOMPANIET

If music *really* matters™

PI 2D

Balanced Integrated Amplifier

(with built-in DAC)

Owner's Manual

EN

Unpacking the PI 2D

Immediately upon receipt of the amplifier, inspect the carton for possible damage during shipment. If the carton is visibly damaged, a claim must be filed with the carrier as soon as possible.
Unpack the unit carefully, and please do remember to save all packaging materials for future shipment. The carton and packaging have been designed to offer the safest possible protection when transporting your amplifier.

The contents of the carton

- 1 pc. Electrocompaniet PI 2D Integrated Amplifier
- 1 pc. AC power cord
- 1 pc. Owner's Manual
- 1 pc. Inspection Card
- 1 pc. Remote control
- 2 pcs. batteries.

Set up procedure

Before connecting the PI 2D 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

A good operating practice is to turn off all equipment before any connections or disconnection's are made. 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 PI 2D 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 setups 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, page 10.)*

Single - ended operation: (*See illustration "back panel", page 9.)*
There are 4 sets of single ended inputs labelled: DVD, Tuner, AUX, HT.
All inputs are similar regarding sonic performance.

Balanced operation: (*See illustration "back panel", page 9.)*
There are one set of balanced inputs labeled CD. The balanced mode can only be used if the signal source has a balanced output. Use an XLR interconnect with GND on pin 1, + on pin 2 and – on pin 3.

Speaker outputs (*See illustration "back panel", page 9.)*
Connect the red connector to the plus side on the speakers and the white connector to the minus side on the speakers. Never short the positive output to ground or chassis. Always switch the PI 2D off when you connect the speakers.

Front panel (*See illustration "front panel", page 8.)*
The standby button is located on the left side 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 volume range is 0 to 100.

HT (Home Theatre)
HT is a direct input where the volume control is bypassed. PI 2D will work like a power amplifier with fixed gain. When selected the output will be muted for a few seconds as a safety against accidental overload.

SPDIF inputs
PI 2D will accept optical SPDIF sources up to 96 kHz/24bit on inputs TOSLink1 and TOSLink2. Please use a optical TOSLink cable for this connection. Connect coaxial sources up to 192kHz/24bit to inputs COAX1 and COAX2. Please use a coaxial SPDIF cable for this connection.

USB input *(See illustration "back panel", page 9.)*
The USB input accept sources up to 24bit/192kHz. Connect a PC/Mac/Linux computer using a standard type A-B USB cable. PI 2D will show up as a sound device on your computer. Please select PI 2D as the active device to enable playback through PI 2D. On Windows drivers are needed. Please install the drivers before connecting the USB cable and follow the instructions. During installation you will be asked to connect the USB cable. The latest drivers can be downloaded from: www.electrocompaniet.no/downloads.

How to power up your system
You should always power up your system the following way:
Signal sources (CD player, tuner etc.) first. Allow a 30 seconds warm-up before you turn on the PI 2D.

Navigator window (*See illustration "front panel", page 8.)*

This window in the middle of the front panel shows which source is currently active. The listening volume will be displayed when the volume is adjusted using the remote control or the navigator up/down buttons. The display may be turned off using the DIM AMP button on the remote. If turned off, the display will come back on for 5 seconds if any button is pressed on the remote or the navigator.

Audio Source	Display Text	Description
CD	CD	Analog balanced XLR input
AUX	AUX	Analog single-ended RCA input
DVD	DVD	Analog single-ended RCA input
HT	HT	Analog single-ended home theater RCA input
COAX 1	COAX1	Coaxial S/PDIF input up to 192 kHz/24 bit
COAX 2	COAX2	Coaxial S/PDIF input up to 192 kHz/24 bit
TosLink 1	TOSLNK1	Optical S/PDIF input up to 96 kHz/24 bit
TosLink 2	TOSLNK2	Optical S/PDIF input up to 96 kHz/24 bit
Tuner	TUNER	Analog single-ended RCA input
USB	USB	Asynchronous High Speed USB 2.0 input up to 192kHz/24bit

Navigator buttons (*See illustration "front panel", page 8.)*

Button	Function	Description
UP	Volume Up	Increases the volume level.
DOWN	Volume Down	Decreases the volume level.
LEFT	Select source left	Selects previous source
RIGHT	Select source right	Selects next source

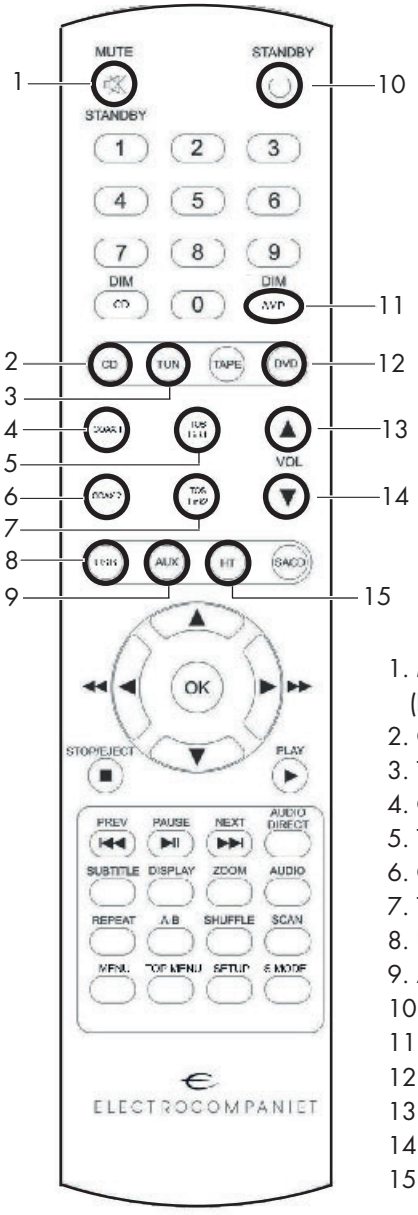
Error codes

If the PI 2D is not working properly, the display will show an error code.

Error text	Description	What to do
DC L	DC voltage left channel	Please contact service center.
DC R	DC voltage right channel	
DC	DC left + right channels	
OVRLD L	Overload left channel	Make sure that the + and – leads of the loudspeaker cables are not shorted, and that the speaker cables are not in contact with the chassis of PI 2D.
OVRLD R	Overload right channel	
OVRLOAD	Overload left+right channels	
TEMP L	Left channel overheated	The amplifier is overheated. This is caused by either playing to loud for a long period of time, or not enough free space on the sides or above the PI 2D. Turn down the volume and make sure there is enough free space around the amplifier.
TEMP R	Right channel overheated	
TEMP	Left+Right channels overheated	

For other troubleshooting please contact your local dealer or our support department. All contact information you will find at www.electrocompaniet.no

Remote control operating guide



1. Mute on/off.
   (Hold 1-2 sec to set into standby mode.)
2. CD - switch to CD input.
3. TUN - switch to Tuner input.
4. COAX1 - switch to COAX1 input.
5. TOSLink 1 - switch to TOSLink 1 input.
6. COAX2 - switch to COAX2 input.
7. TOSLink 2 - switch to TOSLink 2 input.
8. USB - switch to USB input.
9. AUX - switch to AUX input.
10. No function on PI 2D.
11. AMP DIM - turn display on/off.
12. DVD - switch to DVD/Blu-ray input.
13. Vol Up - increases the volume level.
14. Vol Down - decreases the volume level.
15. HT - switch to Home theater input.

Important Notice

For optimal sonic performance, the PI 2D should be burned in for a minimum time of 72 hours. If the PI 2D has been switched off, allow two hours of warm-up for optimal sonic performance. It is normal for the PI 2D to feel warm. 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 PI 2D

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. If, for some reason, there are no service facilities available in your country, please contact Electrocompaniet for assistance:

ELECTROCOMPANIET AS
BREIVIKVEIEN 7
4120 TAU
NORWAY

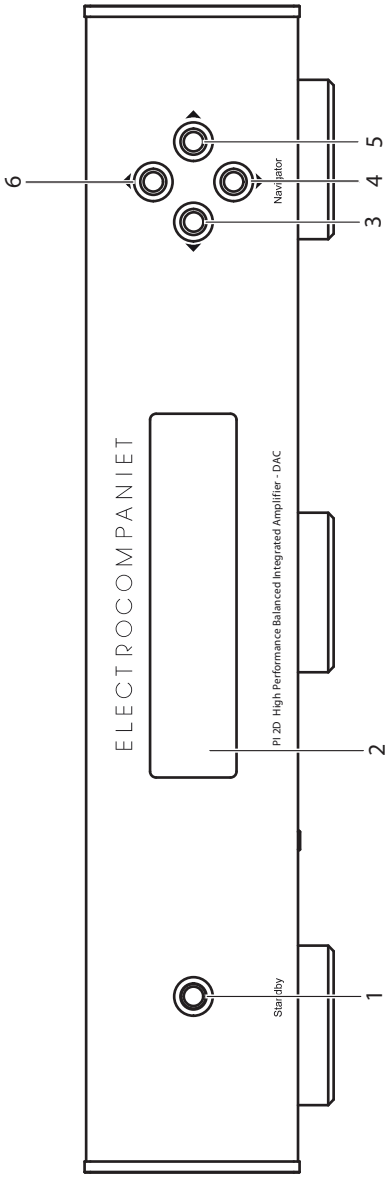
Web: www.electrocompaniet.no

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

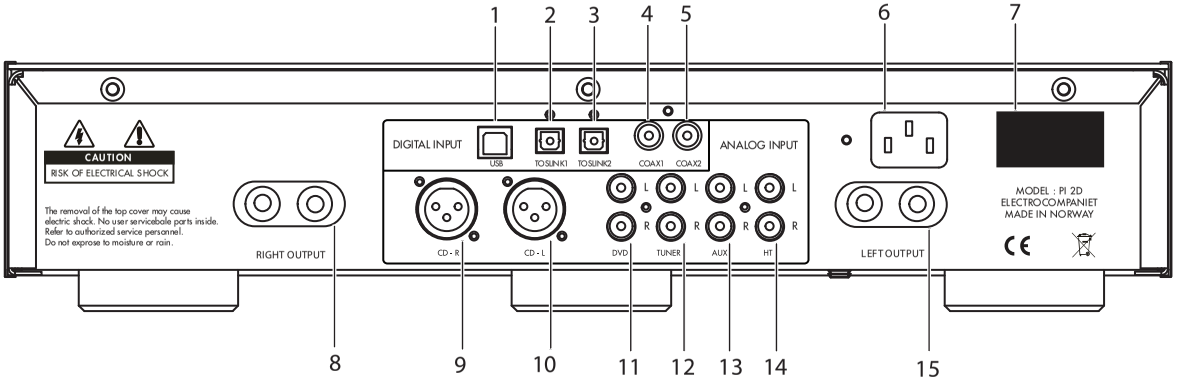
1. A sales slip or other proof of purchase if repair is claimed under warranty.
2. A proforma invoice with value of goods, stating that the amplifier is being returned to Norway for repair.
3. An accompanying letter describing faults, symptoms, or problems with the unit.
4. Always ship the unit in its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

PI 2D front panel illustration

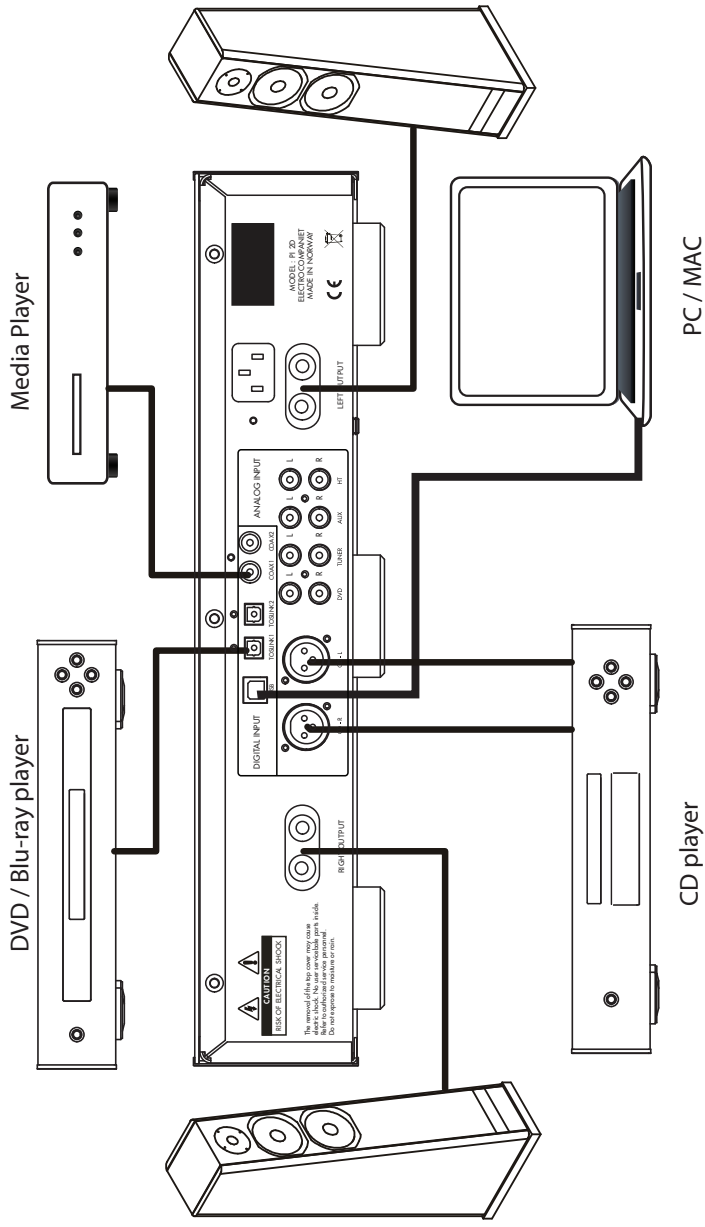


1. Standby button
2. Display
3. Previous input
4. Volume down
5. Next input
6. Volume up



1. USB audio input
2. Optical digital input 1, TOSLink1
3. Optical digital input 2, TOSLink2
4. Coaxial digital input 1
5. Coaxial digital input 2
6. Power inlet
7. Serial number and voltage.
8. Right speaker output
9. Balanced analog right CD input
10. Balanced analog left CD input
11. DVD/Blu-ray analog input
12. Tuner analog input
13. AUX analog input
14. Home theater analog input (HT)
15. Left speaker output

How to connect the system



Technical specifications PI 2D

The following technical data were measured on randomized test objects and are typical data. All measurements are made at 120V / 240V // 50Hz / 60Hz

Input impedance(Single-Ended/Balanced).....60/120 kOhm

Output impedance.....< 0,03 Ohm

Noise floor (20 Hz - 20 kHz).....< -130 dB

Frequency response(- 3 dB).....1- 225 kHz

Channel separation(1 kHz).....> 120 dB

Damping factor(8 Ohm load) .....> 300

Maximum peak current.....>50 A

THD+N.....< 0,005 %

Maximum sample rate/bit length.....192kHz/24bit

SPDIF inputs: 2 x Coax, up to 192 kHz/24 bit.
2 x TOSLink, up to 96 kHz/24 bit.
USB input: 1x 192 kHz/24 bit asynchronous.

Rated output power THD = 0,2%

8 ohm..... 2x100 W
4 ohm.....2x165 W
2 ohm.....2x220 W

Power consumption (no load or signal) 90 W

Dimensions

Width .....424 mm / 16.69 inches
Depth .....337 mm / 13.26 inches
Height .....90 mm / 3.54 inches
Weight.....10.3 kg. / 22.7 lbs

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

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HERE

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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 personal.
The warranty is void if the product is tampered with by non-authorised personnel.
Use only authorized Electrocompaniet service center.

Made in Norway
www.electrocompaniet.no