

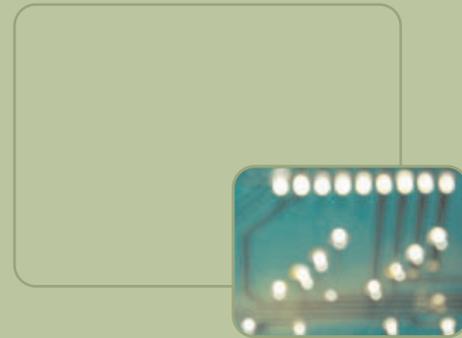


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**E EN SEN**  
U I ELEKT NIK

### Naturalness is the Culmination of All Masterly Skill

Sound. Beauty. Gracefulness. Naturalness. Not less. And not more. In order to achieve all that, Berendsen has uncompromisingly devoted itself to a number of principles: Focus on the essential. Smartest technology. Manufacture largely by hand and in small numbers at one time. And: Components by Berendsen are built to last. The manufacture of ever-changing products, the new ones differing from their predecessors only by marginal characteristics, is not the concept pursued by Berendsen. Anybody who wishes to upgrade his Berendsen components after a while, has the possibility to retrofit his components by Berendsen even years after purchase.

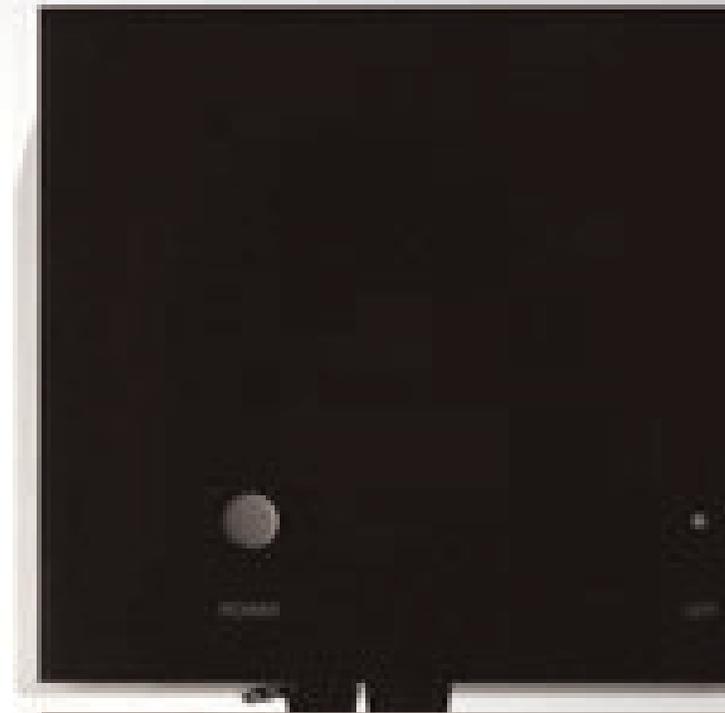


## The Berendsen Preamplifier and Power Amplifier

Sometimes it takes two to achieve the one thing: Maximum pleasure.

**PRE 1.** Preamplifier. No capacitors in the signal path. A sound reproduction whose naturalness impresses. Precise operational amplifiers. Discrete output driver configuration in single-ended class-A mode.

**STA 150.** Power amplifier. Generously designed toroidal-core transformer. High current filter capacitors. DC-coupled. Manually-selected power transistors. Wide frequency range. Complex protective system. The result? Something very simple: Extraordinary sound.



## Berendsen CD-Players

CD-players by Berendsen allow the acoustic reproduction of even the most subtle sound differences. The cd-mechanism, control and converter board rest on damping elements and are thus decoupled. Analog and digital electronics are fed by separate power supplies. The energy is supplied by 30 VA toroidal-core transformers, the operation of the digital-to-analog converters is based on the Delta-Sigma principle. All elements have been thoroughly selected with regard to sound-affecting parameters. On top of that: A manufacturing method that makes our products sturdy and durable. That makes the beauty of sound not a momentary pleasure, but a lasting experience.



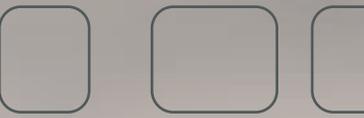
## Berendsen Integrated Amplifier

People talk about it. They praise its sound quality. They commend its craftsmanship. But they are neither referring to the bells of Notre Dame nor to the masterpiece of a saddler.

When discussing differences in sound quality, it is sometimes just a step from ordinary commercial quality to a distinguished individual style. The Integrated Amplifier IPA 80 is available at a price level which is attractive, but where exceptionality and superior quality are hard to be found. This is where a genuine product by Berendsen makes a difference. Behind a 10mm face of scotched aluminum is concealed a technology of superior quality and refinement. Three toroidal-core transformers guarantee optimal energy flow. Four noble Aerovox electrolytic capacitors stand for smooth supply. Six ring emitter transistors per channel provide the power output stage with power and render it autonomous. Microprocessor control allows pre-level adjustment for every input as well as smooth setback and raising when changing over to another input. The result is, generally speaking, something very exceptional.



It is the perfection of natural sound that has motivated Berendsen for over ten years to design and produce top class audio-components.



## Berendsen Phono Stages

If you are staying where the air becomes rare, where 'the higher' and 'the highest' are weighed against each other, you will sooner or later discover the keyword: Analog.

Berendsen Phono Stages have uncompromisingly been designed for the purpose of analog reproduction, for the most natural form of signal processing.

**PPR II.** The all-round phono stage. Switchable for MM/MC. Separate regulated power supply. Gain through precision operational amplifiers. Passive RIAA-Deemphasis. Change-over of gain and input impedance by means of Dip-switches.

**Analog One.** Phono preamplifier stage as the ideal supplement for turntables in the high-price range. Fully discrete construction featuring single-ended class-A technology. Analog One meets the requirements that allow us to make full use of all the possibilities offered by phono components of superior quality.



PPR II



## Berendsen Signal Cable

You cannot win. But lose a lot. The sound quality of individual audio-components cannot be improved by means of cables. However, inadequate cables can reduce the quality of sound considerably.

Signal and mains cables by Berendsen have been thoroughly designed to produce an overall sound that is absolutely natural. It goes without saying that they constitute the optimal configuration among Berendsen components.

**Signal Cable Bluelink.** Balanced Twisted-Pair design. Two internal conductors, consisting of massive pure silver wires. Two-stage teflon or polyethylene insulation. Extremely tight shield mesh. Plugs fabricated with lead-free solder tin containing a high portion of silver.

**Mains Cable Powerlink.** Internal conductors made of high-quality electrolytic copper. Excellent high-frequency attenuation due to a special coating applied to the internal conductors.

Berendsen offers you the choice between two different profile sections: 3 x 1.5mm<sup>2</sup> and 3 x 2.5mm<sup>2</sup>.



## Berendsen Special Edition

What exactly is meant by "Berendsen Special Edition"? The preamplifier and power amplifier combination STA 150 and PRE 1 were the initial products on the basis of which a Special Edition was designed later on. No doubt, there will always be a Special Edition of a certain component in the future. It is important to know, however, that "Special Edition" is not a term implying some sort of craze for fancy designs, but a term which is used for the raise of a basic component to a higher technical class.

Anybody who feels a desire for more technical refinement after a while, but sees himself confronted with the proverbial longevity of any Berendsen product, has the possibility to upgrade his components – even years later – to the Special Edition level. This concept is not only sensible, but has also proven very successful. And it would mean the continuation of a wonderful friendship.

*Special Edition*



## Technical Specifications of Berendsen Components

All components available in silver or black

### Preamplifier PRE 1

**Inputs:** 5 Line  
**Outputs:** 2 Tape, 2 Main  
**Record selector switch:** Yes  
**Remote-control function:** Yes (Volume)  
**Bandwidth (-3 dBr):** < 1.5 Hz - 200 kHz  
**Slew rate:** > 15 V/μs  
**Linearity (< 10 Hz-20 kHz):** +0.02 dBr, -0.02 dBr  
**THD+N (< 10 Hz-20 kHz):** < 0,003%  
**S/N-Ratio (ref. to 1V, filter CCIR):** > 100 dBr  
**Input impedance:** 10 kOhm  
**Output impedance:** 56 Ohm  
**Input sensitivity [ref. to 1V]:** 190 mV  
**Transformer:** Toroidal 30VA  
**Filter capacity:** 18800 μF  
**Weight:** 7.5 kg  
**Measurements:** 445 x 260 x 65 mm

### Preamplifier PRE 1 SE

**Inputs:** 5 Line  
**Outputs:** 2 Tape, 2 Main  
**Record selector switch:** Yes  
**Remote-control function:** Yes (Volume)

**Bandwidth (-3 dBr):** 1.5 Hz-200 kHz  
**Slew rate:** 25 V/μs  
**Linearity (< 10 Hz-20 kHz):** +0.02 dBr, -0.02dBr  
**THD+N (< 10 Hz-20 kHz):** 0.0015%  
**S/N-Ratio [ref. to 1V, filter CCIR]:** > 105 dBr  
**Input impedance:** 10 kOhm  
**Output impedance:** 56 Ohm  
**Input sensitivity [ref. to 1V]:** 200 mV  
**Transformer:** Toroidal 30VA  
**Filter capacity:** 18800 μF  
**Weight:** 7.5 kg  
**Measurements:** 445 x 260 x 65 mm

### Power Amplifier STA 150 and STA 150 SE

**Inputs:** 1 Line  
**Outputs:** 2 speakers (1 pair)

**Power output (< 10 Hz-20 kHz, 8 Ohm):** 150 W per channel  
**Power output (< 10 Hz-20 kHz, 4 Ohm):** 240 W per channel  
**Output current:** > 40 A (150 SE: 40 A)  
**Linearity (< 10-20kHz, 22 W, 8 Ohm):** +0.02 dBr, -0.08 dBr  
**THD+N (1 kHz, 100W, 8 Ohm):** < 0.1% (150 SE: 0.003%)  
**THD+N (20 kHz, 100W, 8 Ohm):** < 0.3% (150 SE: 0.006%)  
**S/N-Ratio [ref. to 50mV, 8 Ohm, filter CCIR]:** > 78 dBr  
**Input impedance:** 47 kOhm (150 SE: 2.7 kOhm)  
**Gain:** 29 dB (150 SE: 24.5 dB)  
**Input sensitivity [ref. to 1W, 80hm]:** 100mV (150 SE: 166mV)  
**Mode:** Class AB (150 SE: Class AB, inverting)  
**Transformer:** Toroidal 750VA  
**Filter capacity:** 60000 μF (150 SE: 100000 μF)  
**Weight:** 21 kg (150 SE: 25 kg)  
**Measurements:** 445 x 390 x 155 mm

### Phono PPR 2

**Inputs:** 1 switchable MM/MC  
**Outputs:** 1 Cinch line  
**Input sensitivity MC:** 0.68 mV (for 755mV output level)  
**Input sensitivity MM:** 7 mV (for 755mV output level)  
**Deemphasis:** according to RIAA/IEC  
**Linearity:** < +-0,3 dBr  
**S/N-Ratio:** > 74 dBr (Filter CCIR)  
**Input impedance MC:** 100 Ohm  
**Input impedance MM:** 47 kOhm  
**Gain:** 40 dB for MM; 61 dB for MC  
**Impedance selection:** Via Dip-switches: Additional outlet for optional impedance  
**Power supply:** external, regulated  
**Measurements (only PPR II case):** 114 x 44 x 108 mm (available in black only)



### Phono Stage Analog 1

**Inputs:** 1 MM Cinch; 1 MC Cinch  
**Outputs:** 1 Cinch line  
**Input sensitivity MC:** 0,15 mV-2 mV  
**Input sensitivity MM:** 3 mV-7 mV  
**Deemphasis:** acc. to RIAA  
**Linearity:** < +-0.05 dBr  
**S/N-Ratio:** > 74 dBr (Filter CCIR)  
**Input impedance MC:** 1.43 kOhm  
**Input impedance MM:** 47 kOhm  
**Gain matching, internal:** +-6dBr  
**Amplifier operation:** Single-ended class A  
**Impedance selection:** Via additional rca-jacks  
**Toroidal transformer:** 30VA mu-metal shielded  
**Filter capacity:** 37800 μF  
**Weight:** 8 kg  
**Measurements:** 445 x 280 x 65 mm

### Intergrated Amplifier IPA 80

**Inputs:** 8 Cinch  
**Outputs:** 1 Speaker (pair), 1 Pre Out, 2 Tape, 1 head set,  
**Remote control function:** yes, handset included  
**Display:** LED-Display, red  
**Power output:** (< 10Hz-20kHz, 8 Ohm): 80W per channel  
**Power output:** (< 10Hz-20kHz, 4 Ohm): 140W per channel  
**Output current:** > 20A  
**Linearity:** (< 10Hz-20kHz, 22W, 8 Ohm); +0.02 dBr, -0.08 dBr  
**THD+N (1 kHz, 22 W, 8 Ohm):** < 0,0045%  
**THD+N (20 kHz, 22 W, 8 Ohm):** < 0,0085%  
**S/N-Ratio (Filter CCIR):** > 105dBr  
**Input impedance:** 10kOhm  
**Transformers:** 2 x Toroidal 200VA, 1 x Toroidal 30VA  
**Filter capacity:** 60.000 μF  
**Power consumption (without music):** 50W  
**Power consumption (standby):** 2W  
**Weight:** 14.4 kg  
**Measurements:** 445 x 330 x 105 mm



### CD-player CDP I

**THD+Noise 1 kHz, 0 dB:** < 0.0025%  
**Linearity < 10 Hz-20 kHz:** +0.1 dBr, -1.1 dBr  
**Output Voltage 1kHz, 0 dB:** 3.8 V  
**Digital Output:** S/P-Dif via BNC-socket  
**Display:** LED-Display, red  
**Transformers:** 2 x 30 VA  
**Remote control function:** Yes, all functions; Handset included  
**D/A Converter:** Crystal CS 4390 with resolution equivalent to 20 Bit  
**Reconstruction filter:** purely passive  
**Output driver configuration:** Single-ended class A  
**Output impedance:** 56 Ohm  
**Minimal load:** > 1 kOhm, < 450 pF  
**Power consumption:** 15 W  
**Measurements :** 445 x 330 x 105 mm  
**Weight:** 11 kg

### CD-player CDP I SE

**THD+Noise 1 kHz, 0 dB:** < 0.0019%  
**Linearity < 10 Hz-20 kHz:** +0.1 dBr, -1.1 dBr  
**Output voltage 1kHz, 0 dB:** 3.8 V  
**Digital Output:** S/P-Dif via BNC-socket  
**Display:** LED-Display, red  
**Transformers:** 2 x 30 VA  
**Remote control function:** Yes, all functions; Handset included  
**D/A converter:** Delta-Sigma-converter  
**Reconstruction filter:** Purely passive  
**Output driver configuration:** Single-ended class A  
**Output impedance:** 56 Ohm  
**Minimal load:** > 1 kOhm, < 450 pF  
**Power consumption:** 15 W  
**Measurements:** 445 x 330 x 105 mm  
**Weight:** 11 kg



### CD-Spieler CDP II

**Outputs:** 1 Cinch  
**Digital Output:** S/P-Dif via BNC-socket  
**Display:** LED-Display, red  
**Remote-control function:** Yes, handset included  
**THD+N, 0 dB:** 0,003%  
**Linearity (< 10 Hz-20 kHz):** +0.05 dBr, -1,1 dBr  
**Output voltage (0 dB):** 2.05 V  
**D/A converter:** Crystal CS4327  
**Reconstruction filter:** Purely passive  
**Output driver configuration:** Single-ended class A  
**Output impedance:** 56 Ohm  
**Transformer:** 1 Toroidal 30VA  
**Power consumption:** 15 W  
**Measurements:** 445 x 330 x 105 mm  
**Weight:** 11 kg



### Signal Cable Bluelink

**Capacity:** 100 pF/m  
**Diameter:** 8.3 mm  
**Shielding:** Copper mesh

### Mains Cable Powerlink

**2 different profile sections:** 3 x 2.5qmm for equipment with high current demand – 3 x 1.5qmm for equipment with regular current demand  
**Diameter:** 11 mm for 3x1.5 qmm, 13 mm for 3x2.5 qmm  
**Shielding:** Aluminum foil



Specifications are subject to change without notice.