



Densen Audio Technologies

OWNER'S MANUAL



Operating instructions - Guide lines - Optimising performance - Upgrading your setup - Warranty - Support

L I F E I S T O O S H O R T F O R B O R I N G H I - F I

Dear music lover

Congratulations on your new Densen product

For us, making Densen is very much a labour of love; we are therefore proud that you have chosen us to be your supplier of good music and great experiences in your home!

We have tried in every possible way to make the perfect product; your choice is an indication that we have achieved our goal.

Of course, questions may arise in connection with a new product, which is why we have made this manual. Please read it carefully before connecting anything.

We have made this instructions manual very simple and logical because so are our products. At the same time we offer some proposals as how to set up your equipment in order to achieve the best possible sound.

Should you have any questions that you feel have not been answered, then there are three categories of people ready to help you: your dealer, the Densen distributor in your country or our staff at Densen in Denmark. Feel free to contact any of them.

We ask you to fill out the enclosed form so as to obtain your limited lifetime warranty. This form must be sent to us within 14 days of purchase.

We would be very happy to receive any comments from you, good or bad, regarding your experiences with Densen equipment.

Wishing you countless hours in the wondrous world of music.

Yours sincerely

Thomas Sillesen

Head Honcho of Densen Audio Technologies



LIFE IS
FOR BO



TOO SHORT FOR HI-FI

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IMPORTANT READING

before use...

Receiving your new Densen product

Every Densen product is the result of a meticulous process, in which everything is produced and checked with the utmost care.

When you receive your Densen, the first thing you should do is to check it for physical damage sustained during transport. Is the shipping carton in perfect order? Is the unit? If not, you should contact your dealer immediately, and ask for the name of the carrier, so that a written claim to cover shipping damage can be initiated.

The right to any claim against a public carrier can be forfeited if the carrier is not notified promptly and if the shipping carton and packaging material are not available for inspection. Save all packing material until the claim has been settled.

Important Guidelines

Read all the instructions before connecting or operating the component. Keep this manual so you can refer to these safety instructions. Heed all warnings and safety information in these instructions. Follow all operating instructions.

When unpacking your new Densen equipment make sure that none of the tape used for packing touches the cabinet as it will be very difficult to remove again and may damage the cabinet.

Save the Densen shipping carton and all enclosed packing

material for future use. Shipping or moving your Densen in anything other than the original packing material may result in severe damage to your product.

Always use the supplied white cotton gloves to handle the product to prevent fingerprints and grease. The gloves will also protect your hands from sharp edges.

Your Densen should be placed on a dry fixed surface. So as not to impede cooling, never place anything on top of Densen integrated amplifiers or Densen power amplifiers; there should be a minimum of 30 centimetres free space above and 5 centimetres on each side of the amplifier.

Do not expose the amplifier to excessive heat, cold, sunlight, moisture or dust. The Densen amplifiers in particular can reach rather high temperatures. As a rule of thumb; if you can place your hand on top of the cabinet for longer than two seconds your amplifier is not overheated.

Only connect and disconnect cables when your Densen is switched off, and the power supply is removed. Otherwise you will risk damages not covered by the warranty.

Incidentally, the various wiring possibilities for the various products are indicated in the product descriptions that will follow later in this owners manual.

The unit must only be connected to a power supply of the type and voltage specified on the rear panel of the unit.

Connect the component to the power outlet only with the supplied power supply cable or an exact equivalent. Do not modify the supplied cable in any way. Do not attempt to

defeat grounding and/or polarisation provisions.

Do not route the power cord where it will be crushed, pinched, bent at severe angles, exposed to heat or damaged in any way. Pay particular attention to the power cord at the plug and where it exits the back of the unit.

The mains input also contains a socket for fuses, which must only be replaced with the same type of fuse as indicated on the sticker on the back panel. A spare fuse is to be found in the mains input as well.

Clean the cabinet with an either dry or slightly moist soft cloth. Be very careful not to scratch the cabinet, the knobs or any displays. To remove grease use a mild detergent. Do not use any abrasive cleaners as they can damage the surface.

Fill out and send in the owner's registration card packed with the Densen. Also, be sure to keep the original sales receipt. It is your best record of the date of purchase.

Warning

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THE UNIT TO MOISTURE OR WATER. DO NOT REMOVE THE TOP COVER.

Do not allow foreign objects to get into the enclosure. If the unit is exposed to moisture, or a foreign object gets into the enclosure, immediately disconnect the power cord. Take the unit to a qualified service person for inspection and necessary repairs.

Servicing

If you have any problems with your Densen amplifier, contact your dealer or your country's appointed distributor. Refer all servicing to qualified service personnel.

VERY IMPORTANT

THERE ARE NO USER-SERVICABLE PARTS INSIDE ANY PRODUCT.

Phonostages

Many of the Densen amplifiers have sockets for internal Phono stages. These are connected by removing the lid and mounting them precisely in the socket dedicated to Phono stages. Before mounting, two jumpers placed on the Phono stage socket should be removed. In the product descriptions you can read precisely how they should be positioned in each separate unit.

MOUNTING OF PHONO STAGES SHOULD ONLY BE CARRIED OUT BY YOUR DEALER.

Statement of conformity

Densen products comply with IEC65 & EN61000-3-2 and are produced in facilities that are certified ISO 9001 and ISO 14001.

Warranty

Service and repair

As the only company in the industry, Densen offer a life long warranty.

The lifetime warranty is only valid for the first owner of a product. Purchasers of used Densen equipment do not take over the warranty, but can still have repairs done at the Densen headquarters for a very reasonable price.

The lifetime warranty works as follows:

Within 14 days of purchasing a Densen product you must send in the registration card enclosed with all Densen products.

The local warranty, which is carried out by your local dealer/distributor is typically of 1 or 2 years duration. During this time you have to contact either your distributor or dealer. After this period the Densen Lifetime warranty becomes valid.

While the Densen lifelong warranty is valid, you are required to communicate directly with the Densen Head Quarter, and we recommend using e-mail: service@densen.dk, or calling us directly.

Our staff will decide if the product needs to be sent to Denmark, or can be fixed at your home address. In the cases where it must be shipped to Denmark, we recommend using normal surface mail, which can be done securely and cheaply. This shipping cost must be borne by the owner of the product. The repair, spare parts, and return-shipment will be paid by Densen.

In the event of having to ship a product to the Densen Headquarters for repair, always use the original packing. The

customer bears the entire responsibility under transportation.

You must complete the Repair Form under the Service section at our web-site www.densen.com before shipping.

VERY IMPORTANT

Lifetime is defined as being as long as it is feasible and / or possible for us to repair the product. If it is no longer possible to repair the product in question we will offer the customer a discount on a new / alternative product.

The lifetime warranty is only given to the person that is the first owner of the product. This means that selling the product second hand voids the warranty.

Buyers of a used Densen product can get Densen to carry out repairs for a fixed price, and pay in advance on the Internet.

Warning

Any unauthorised voltage conversion, disassembly, component replacement, perforation of chassis, updates, or modifications performed to the unit will void the warranty. If the product has been repaired by any unauthorised personnel or company the warranty will be void.

Upgrade path

Expanding your system

An important piece of the Densen vision is that you will be able to continuously upgrade your system, without having to discard most of the components you have already invested in. For us it is equally important that you will have the same sound signature in all Densen products. This means that by upgrading your system, you will not end up with a sound that is completely differently from the one you started out with. Therefore, if you like the sound you experience from your existing system, you will love the sound when you have upgraded it. Every time you upgrade you will experience the Densen sound, just at a higher level each time.

There is a red line running through all our products, so that each time you upgrade your system, you will get even more music. In our opinion, an upgrade must be well worth the money you have paid and not just a case of minor improvements.

The continuing upgrade possibilities mean that you can start out with a B-110 and a B-400 PLUS. Upgrade with a B-310 to gain a better sound and to utilize the benefits of Bi-amping. The B-400 PLUS can be upgraded to the XS version. (Existing customers with a B-400 can also upgrade to the PLUS version or the XS version). The integrated, tuner or pre amplifier (B250) can be upgraded with external power supplies for even better sound.

Now you can add more power amplifiers to enjoy the benefits Tri-amping and maybe even Quad-amping. Ultimately you can go active with the SAXO. This way you can always build on your existing system and upgrade to better sound.

SAXO Electronic Crossover

The SAXO electronic crossover is the ultimate expansion for your Densen system. When you go active with the SAXO you will experience the greatest of all improvements when it comes to sound. Due to the superior technology of an active system compared to a passive, the improvement is simply massive!

At the same time the SAXO solution is reasonably priced: being built into existing cabinets, there is no need to invest in a new cabinet; there is no investment in extra cables to connect to the electronic crossover; indeed, the only investment is in the SAXO boards themselves.

The SAXO boards are custom-made exactly to YOUR speakers. This means that we measure and analyze your speaker, and make an exact crossover for it. Due to the benefits of the active crossover, compared to the passive crossover, you must expect a huge improvement in all aspects of the sound; clarity, transparency, dynamics, soundstage, detail-level, and overall musicality will be massively improved.

Should you subsequently decide to upgrade your loudspeaker to another model or brand, your SAXO crossover will not be obsolete. The SAXO crossover you own can be upgraded to fit any new loudspeaker you may choose.

You are welcome to contact us directly if you need any advice on the best way to upgrade your system.

Densen B-110

Integrated amplifier

The B-110 is the successor to the B-100, which became the most sold high-end amplifier ever from a Scandinavian audio manufacturer. However, the B-110 takes a giant step forward in terms of musicality. The reviews have confirmed the quality of the "old" B-100 by awarding the B-100 a string of very favorable reviews: "You just can't beat it", "rhythmic magic" and "build quality that should embarrass everyone fighting in this price category" - words that tell you it is time to open your ears and listen! The new B-110 will exceed



this in every respect! This completely new design is simply sonically superior, because of the high-end details it inherits from its close relation to the B-130 and B-150. The B-110 has an active pre-amp for easy bi-amping and SAXO. Even the amplifier itself is ready for SAXO. It is also ready for surround with the SB boards, and of course, everything is fully remote controllable with the sexy Gizmo. And you can upgrade it with phono stages and an external power supply, making it extremely versatile and musical. This is a killer amp...

Back panel connections:

a: Speaker terminals. The amplifier is prepared for one pair of speakers. Red must be connected to red/+ on your speakers, and black to black/- on your speakers. Left channel must be connected to left side speakers, and right channel to right side speakers. Do not short circuit!

b: Ground screw for grounding turntables.

c: CD input (line input). If used with a Densen CD Player, connect the CD Player here for optimum remote performance.

d: Tuner input (line input). If used with a Densen Tuner, connect the Tuner here for optimum remote performance.

e: Line 1: (line input). This is a line input that can be converted by internally mounting a DP-03 MM or DP-06 MM/MC board with a turntable input. To connect the DP-boards correctly, take off the top cover, and remove the two black jumpers from the DP

socket on the left of the mains board, when seen from the back panel. Mount the DP-board according to the manual included with your DP-board. Mount the DP-board so that all 12 pins on the socket on the board are mounted in the holes on the socket of the DP-connector.

f: Line 2: (line input), a normal line input.

g: Tape 1 input.

h: Tape 1 output (connects to line in on your recording device). It is always the channel you are listening to that is sent to the Tape deck for recording, so do not switch input during recording. Tape monitoring is not possible. If you need to be able to monitor your recording, use a headphone connected to your tape deck.

i: Tape 2 input.

j: Tape 2 output (identical to Tape 1)

k: Processor in: Connect the output from a Densen

processor here.

l: Processor out: Connect the input from a Densen processor here.

When using the processor switch on the front panel of a B-110, the preamp stages of the B-110 will be set to off, and the signal sent from the input selector of the B-110 to a separate processor and after processing the front signal will be sent back through the processor input directly to the power amplifier(s) connected to the B-110.

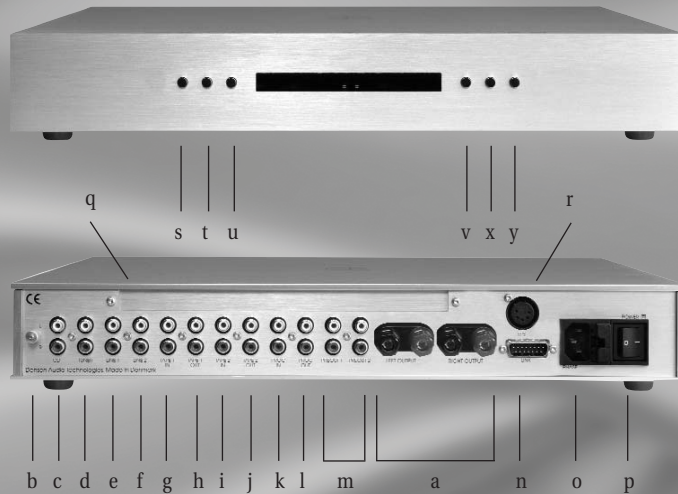
m: Pre out 1, 2: are the preamp output, allowing for connection of up to 2 power amplifiers for easy bi-amping, tri-amping and SAXO.

n: DenLink: A DenLink cable must be connected directly from this terminal to other Densen products in the system, allowing the Densen products to communicate, and also allowing multiroom setup.

o: Main input. Only power the amplifier with the mains voltage indicated on the sticker on the back

Densen B-110

Integrated amplifier



Technical features:

Power output in 8 ohm:

2x60W

Power output in 4 ohm:

2x120W

Power supply size:

360VA

Storage capacity:

40.000uF

THD + Noise @ rated output:

Less than 0,01%

Frequency response (+0 -3db):

2-400.000Hz

Weight/shipping weight:

10/12 Kg

Product dimensions (WxDxH):

444x310x64mm

Upgrade possibilities:

External power supply, bi-amping, tri-amping, SAXO, phonostage, Gizmo, surround board and multiroom.

panel.

p: Power on/off switch.

q: Expansion port for surround board

r: EPS input for external power supply (Not for audio).

Front panel:

s: Standby: Sets the preamp on standby, pushing standby again will start up the preamp with input selection set to the input last used, and the volume setting set to the volume last used. When a Link cable is used, pushing "standby" will also put other products connected to the system on standby.

t: Arrow down: This button decreases the volume

u: Arrow up: This button increases the volume

v: >: This button will toggle forwards between the inputs

x: Proc.:

If there is NO surroundboard internally in the B-110: Pushing "Proc" will toggle between processor mode and normal stereomode.

In Processor mode, using volume will adjust the volume level on the external Densen processor.

Using the inputselector in Processor mode determines which input will be sent to the processor for processing.

If there is a Surroundboard internally in the B-110, first push will switch to the surroundboard, second push will choose external processor and third push will be back to normal stereo mode.

Using external processor or surroundboard, the front channel signals are sent directly through the B-110 to the speakers.

The surroundboard is used with a DVD or SACD which has an analogue 5.1 or 7.1 output.

y: Status: Pushing this button you will be able see the

preset volume and the levels on each channel when a surround board is installed.

All front panel features on the B-110 can be remote controlled by the Gizmo.

Densen B-130

Integrated amplifier

The B-130 is the culmination of an extremely long design phase, with the objective of designing the most musical amplifier which, at the same time, could drive all speakers with ease and musicality. It has all the upgrade options you would expect of a Densen amplifier. The B-130 contains the advanced dotmatrix display, now a feature on all new Densen integrated amplifiers, and will in connection with a Gizmo remote give you all the information you wish. When turning on a B-130, the first thing you notice is the engaging



and involving sound, which drags you into the music, and gives you all the passion and excitement you want from a Densen amplifier. At the same time, the B-130 contains all the advanced features that together allow nearly endless upgrade paths in your pursuit of even better sound and music. This baby can be upgraded with surround, it can be upgraded with an external power supply, it's remote controlled, can be upgraded for bi-amping, tri-amping and SAXO...

Back panel connections:

a: Speaker terminals. The amplifier is prepared for one pair of speakers. Red must be connected to red/+ on your speakers, and black to black/- on your speakers. Left channel must be connected to left side speakers, and right channel to right side speakers. Do not short circuit!

b: Ground screw for grounding turntables.

c: CD input (line input). If used with a Densen CD Player, connect the CD Player here, for optimum remote performance.

d: Tuner input (line input). If used with a Densen Tuner, connect the Tuner here for optimum remote performance.

e: Line 1: (line input). This is a line input that can be converted by internally mounting a DP-03 MM or DP-06 MC board on a turntable input. To connect the DP-boards correctly, take off the top cover, and remove the two black jumpers from the DP socket on the

left of the mains board, when seen from the back panel. Mount the DP-board according to the manual included with your DP-board. Mount the DP-board so that all 12 pins on the socket on the board are mounted in the holes on the socket of the DP-connector.

f: Line 2: (line input), a normal line input.

g: Tape 1 input.

h: Tape 1 output (connects to line in on your recording device). It is always the channel you are listening to, that is sent to the Tape deck for recording, so do not switch input during recording. Tape monitoring is not possible. If you need to be able to monitor your recording, use a headphone connected to your tape deck.

i: Tape 2 input.

j: Tape 2 output (identical to Tape 1)

k: Processor in: Connect the output from a Densen

processor here.

l: Processor out: Connect the input from a Densen processor here.

When using the processor switch on the front panel of a B-130, the preamp stages of the B-130 will be set to off, and the signal sent from the input selector of the B-130 to a separate processor and after processing, the front signal will be sent back through the processor input directly to the power amplifier(s) connected to the B-130.

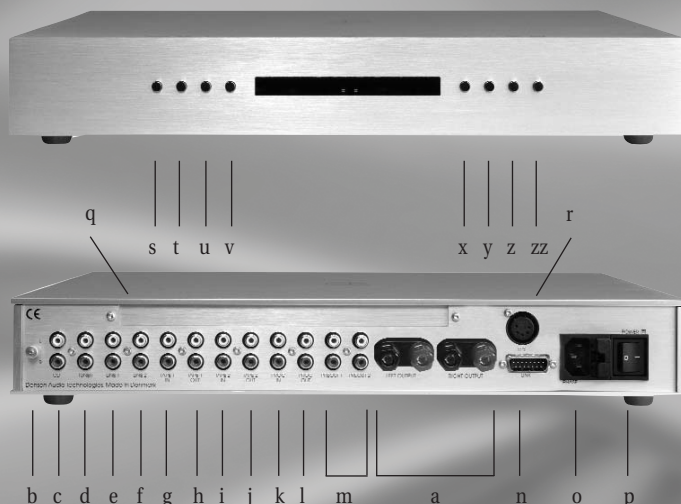
m: Pre out 1, 2: are the preamp output, allowing for connection of up to 2 power amplifiers for easy bi-amping, tri-amping and SAXO.

n: DenLink: A DenLink cable must be connected directly from this terminal to other Densen products in the system, allowing the Densen products to communicate, and also allowing multiroom setup.

o: Main input. Only power the amplifier with the mains voltage indicated on the sticker on the back

Densen B-130

Integrated amplifier



Technical features:

Power output in 8 ohm:
2x80W
Power output in 4 ohm:
2x160W
Powersupply size:
500VA
Storagecapacity:
80.000uF
THD + Noise @ rated output:
Less than 0,01 %
Frequency response (+0 -3db):
2-400.000Hz
Weight/shippingweight:
12/14 Kg
Product dimensions (WxDxH):
444x310x64mm
Upgrade possibilities:
External power supply, Bi-amping, tri-
amping, SAXO, phonostage, Gizmo,
surround board and multiroom.

panel.

p: Power on/off switch.

q: Expansion port for surround board

r: EPS input for external power supply (Not for audio).

Front panel:

s: Standby: Sets the preamp on standby, by pushing standby again, the preamp will start up, with input selection set to the input last used, and the volume setting set to the volume last used. When a Link cable is used, pushing "standby" will also put other products connected to the system on standby.

t: Mute: allows the user to mute the signal. Second push on "mute" brings the volume back to previous level.

u: Arrow down: This button decreases the volume

v: Arrow up: This button increases the volume

x: <: This button will toggle backwards between the inputs

y: >: This button will toggle forwards between the inputs

z: Proc.:

If there is NO surroundboard internally in the B-130: Pushing "Proc" will toggle between processor mode and normal stereo mode.

In Processor mode, using volume will adjust volume level on the external Densen processor.

Using the input selector in Processor mode determines which input will be sent to the processor for processing.

If there is a Surround board internally in the B-130, first push will switch to the surround board, second push will choose external processor and third push will be back to normal stereo mode.

Using external processor or surround board, the

front channel signals are sent directly through the B-130 to the speakers.

The surround board is used with a DVD or SACD which has an analogue 5.1 or 7.1 output.

zz: Status: Pushing this button will enable you to see the preset volume and the levels on each channel when a surround board is installed.

All front panel features of the B-130 can be remote controlled by the Gizmo.

Densen B-150

Integrated amplifier

This is the new top of the line integrated from Densen. It is built around the B-250 pre-amp, and the B-350 Monobloc, which means it simply is a killer amp in sheep's clothing! Considering its heritage, this is an outstanding amplifier, which will secure a solid musical basis in every audio system. At the same time, it is very versatile, and can be upgraded with both an MM/MC Phono stage, SAXO crossover, and SB Board. It contains the advanced microprocessor driven relay attenuator using metal film resistors, and the pre-

amp stage is also based around the pre-amp stage found in the B-250. The power supply is massive, with 5 separate power stages for preamp and power amp, and with more than 130.000uF in the power supply. The power amplifier is 100W per channel, and with the advanced DMCD technology, it has a tremendous grip on even the most difficult loads, which it handles with an ease and musicality that belies even the most discerning listener.



Back panel connections:

a: Speaker terminals. The amplifier is prepared for one pair of speakers. Red must be connected to red/+ on your speakers, and black to black/- on your speakers. Left channel must be connected to left side speakers, and right channel to right side speakers. Do not short circuit!

b: Ground screw for grounding turntables.

c: CD input (line input). If used with a Densen CD Player, connect the CD Player here for optimum remote performance.

d: Tuner input (line input). If used with a Densen Tuner, connect the Tuner here, for optimum remote performance.

e: Line 1: (line input). This is a line input that can be converted by internally mounting a DP-03 MM or DP-06 MC board on a turntable input. To connect the DP-boards correctly, take off the top cover, and remove the two black jumpers from the DP socket on the

left of the mains board, when seen from the back panel. Mount the DP-board according to the manual included with your DP-board. Mount the DP-board so that all 12 pins on the socket on the board are mounted in the holes on the socket of the DP-connector.

f: Line 2: (line input), a normal line input.

g: Tape 1 input.

h: Tape 1 output (connects to line in on your recording device). It is always the channel you are listening to, that is sent to the Tape deck for recording, so do not switch input during recording. Tape monitoring is not possible. If you need to be able to monitor your recording, use a headphone connected to your tape deck.

i: Tape 2 input.

j: Tape 2 output (identical to Tape 1)

k: Processor in: Connect the output from a Densen

processor here.

l: Processor out: Connect the input from a Densen processor here.

When using the processor switch on the front panel of a B-150, the preamp stages of the B-150 will be set to off, and the signal sent from the input selector of the B-150 to a separate processor and after processing the front signal will be sent back through the processor input directly to the power amplifier(s) connected to the B-150.

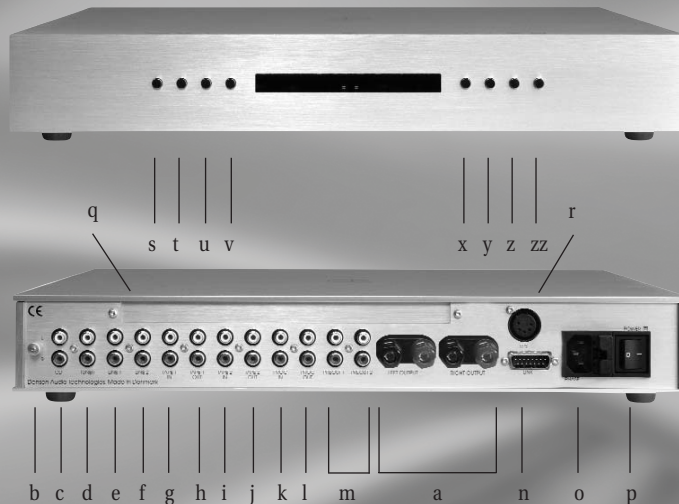
m: Pre out 1, 2: are the preamp output allowing for connection of up to 2 power amplifiers for easy bi-amping, tri-amping and SAXO.

n: DenLink: A DenLink cable must be connected directly from this terminal to other Densen products in the system, allowing the Densen products to communicate, and also allowing multiroom setup.

o: Main input. Only power the amplifier with the mains voltage indicated on the sticker on the back

Densen B-150

Integrated amplifier



Technical features:

Power output in 8 ohm:

2x100W

Power output in 4 ohm:

2x200W

Powersupply size:

750VA

Storagecapacity:

130.000uF

THD + Noise @ rated output:

Less than 0,01%

Frequency response (+0 -3db):

2-500.000Hz

Weight/shippingweight:

14/16 Kg

Product dimensions (WxDxH):

444x310x64mm

Upgrade possibilities:

External power supply, Bi-amping, tri-amping, SAXO, phonostage, Gizmo, surround board and multiroom.

panel.

p: Power on/off switch.

q: Expansion port for surround board

r: EPS input for external power supply (Not for audio).

Front panel:

s: Standby: Sets the preamp on standby, by pushing standby again, the preamp will start up, with input selection set to the input last used, and the volume setting set to the volume last used. When a Link cable is used, pushing "standby" will also put other products connected to the system on standby.

t: Mute: Allows the user to mute the signal. Second push on "mute" brings volume back to previous level.

u: Arrow down: This button decreases the volume

v: Arrow up: This button increases the volume

x: <: This button will toggle backwards between the

inputs

y: >: This button will toggle forwards between the inputs

z: Proc.:

If there is NO surround board internally in the B-150: Pushing "Proc" will toggle between processor mode and normal stereo mode.

In Processor mode, using volume will adjust volume level on the external Densen processor.

Using the input selector in Processor mode determines which input will be send to the processor for processing.

If there is a Surround board internally in the B-150, first push will switch to the surround board, second push will choose external processor and third push will be back to normal stereo mode.

Using external processor or surround board, the front channel signals are sent directly through the B-150 to

the power amp.

The surround board is used with a DVD or SACD which has an analogue 5.1 or 7.1 output.

zz: Status: Pushing this button you will be able see the preset volume and the levels on each channel when a surround board is installed.

All front panel features of the B-150 can be remote controlled by the Gizmo

Densen B-200

Pre amplifier

The Densen B-200 is the result of over 3 years of intensive research and development, and is the focal point of all future Densen products. As you would expect, it bears the Densen trademark of engaging musicality,

but the B-200 is also technically sophisticated.

It is fully engineered for the Gizmo system-remote, prepared for surround-processor, and an extensive upgrade path is available from one

power amp up to a staggering high end system with 4 power amps and electronic crossover. In addition, the B-200 has also been engineered to be the centre of a sophisticated multiroom system. All these features are built

into the B-200 in a discrete way that never detracts from the true goal: the musicality.



Back panel connections:

a: Ground screw for grounding turntables.

b: CD input (line input). If used with a Densen CD Player, connect the CD Player here, for optimum remote performance.

c: Tuner input (line input). If used with a Densen Tuner, connect the Tuner here, for optimum remote performance.

d: Line 1: (line input). This is a line input that can be converted to a phono input by internally mounting a DP-01 or a DP-04 board on a turntable input.

To connect the phono board correctly, take off the top cover, and remove the two black jumpers from the DP socket on the left of the mains board, when seen from the back panel. Mount the DP-board so that all the large components on the DP-board are facing down towards the bottom of the B-200. Mount the DP-board so that all 12 pins on the socket on the board

are mounted in the holes on the socket of the DP-board.

e: Line 2: (line input), a normal line input.

f: Tape 1 input.

g: Tape 1 output (connects to line in on your Tape deck, for recording). It is always the channel you are listening to, that is also sent to the Tape deck for recording, so do not switch input during recording. Tape monitoring is not possible. If you need to be able to monitor your recording, use a headphone connected to your tape deck.

h: Tape 2 input.

i: Tape 2 output (connects to line in on your Tape deck, for recording). It is always the channel you are listening to, that is also sent to the tape deck for recording, so do not switch input during recording. Tape monitoring is not possible. If you need to be able to monitor your recording, use a headphone

connected to your tape deck.

j: Processor in: Connect the output from a Densen processor here.

k: Processor out: Connect this output to the input of a Densen processor.

When using the processor switch on the front panel of a B-200, the preamp stages of the B-200 will be set to off, and the signal sent from the input selector of the B-200 to a separate processor and after processing the front signal will be sent through the processor input directly to the power amplifier(s) connected to the B-200.

l, m, n, o: Pre out 1, 2, 3, 4: are the preamps output, allowing for connection of up to 4 power amplifiers for easy bi-wiring.

Densen B-200

Pre amplifier



Technical features:

Line & tape inputs:

4 & 2

Preouts:

4

Power supply size:

2x20VA

Storage capacity:

50.000uF

THD + Noise @ rated output:

Less than 0,005%

Frequency response (+0 -3db):

2-500.000Hz

Weight/shipping weight:

8/9 Kg

Product dimensions (WxDxH):

444x310x64mm

Upgrade possibilities:

Bi-amping, tri-amping, SAXO, phono-stage and Gizmo.

p: DenLink: A DenLink cable must be connected directly from this terminal to other Densen products in the system, allowing the Densen products to communicate, and also allowing multiroom set-up.

q: Main input. Only power the amplifier with the mains voltage indicated on the sticker on the back panel.

r: Power on/off switch.

Front panel:

s: Standby: Sets the preamp on standby (when power switch is on on the back panel), by pushing standby again, the preamp will start up, with input selection set to the input last used, and the volume setting set to the volume last used. When a Link cable is used, pushing "standby" will also put other products connected to the system on standby.

t: Input selection: The 7 lights over the volume knob indicate the inputs as follows:

Light number 1 (from left): When light is red, it indicates CD input selected.

Light number 2 (from left): When light is red, it indicates Tuner input selected.

Light number 3 (from left): When light is red, it indicates Line input 1 is selected.

Light number 4: (from left): When light is red, it indicates the power is on, and the B-200 is ready to play in normal preamp mode.

When light is green, it indicates the B-200 is set in processor mode.

When light is orange, it indicates the B-200 is set on standby.

Light number 5 (from left): When light is red, it indicates line input 2 is selected.

Light number 6: (from left): When light is red, it indicates Tape 1 is selected.

Light number 7: (from left): When light is red, it indicates Tape 2 is selected.

u: By pushing this button, the inputs are shifted one input to the left.

v: By pushing this button, the inputs are shifted one input to the right.

x: By pushing this button, the volume goes to zero, the light number four goes to green, and the B-200 is set in processor mode.

y: IR sensors.

Special options: The B-200 contains several features only useable when using a Gizmo remote controller. These features are among others: mute: allows the user to switch the muting of the signal off and on.

All front panel features of the B-200 can be remote-controlled by the Gizmo.

Densen B-230

Pre amplifier

The new B-230 preamplifier from Densen is built on perhaps the most advanced stereo preamp on the market. The B-250 is highly acclaimed by many hi-fi magazines and has received awards for being the absolute best. The B-230 builds on these experiences. It has the same advanced solutions: The volume is controlled by an extremely precise attenuator made of Vishay metal film resistors; it



contains sockets for the SB Board for surround, as well as sockets DP-03 and DP-06 MM and MC stages. The amplification stages are all completely new designs, based on advanced class A designs, which have been encapsulated on the board to avoid any kind of interference with the delicate signal, while producing a musicality which is truly outstanding in this price range.

Back panel connections:

a: Ground screw for grounding turntables.

b: CD input (line input). If used with a Densen CD Player, connect the CD Player here for optimum remote performance.

c: Tuner input (line input). If used with a Densen Tuner, connect the Tuner here for optimum remote performance.

d: Line 1: (line input). This is a line input that can be converted by internally mounting a DP-03 MM or DP-06 MC board on a turntable input. To connect the DP-boards correctly, take off the top cover, and remove the two black jumpers from the DP socket on the left of the mains board, when seen from the back panel. Mount the DP-board according to the manual included with your DP-board. Mount the DP-board so that all 12 pins on the socket on the board are mounted in the holes on the socket of the DP-connect-

or.

e: Line 2: (line input), a normal line input.

f: Tape 1 input.

g: Tape 1 output (connects to line in on your recording device). It is always the channel you are listening to, that is sent to the Tape deck for recording, so do not switch input during recording. Tape monitoring is not possible. If you need to be able to monitor your recording, use a headphone connected to your tape deck.

h: Tape 2 input.

i: Tape 2 output (identical to Tape 1)

j: Processor in: Connect the output from a Densen processor here.

k: Processor out: Connect the input from a Densen processor here.

When using the processor switch on the front panel

of a B-230, the preamp stages of the B-250 will be set to off, and the signal sent from the input selector of the B-230 to a separate processor and after processing the front signal will be sent back through the processor input directly to the power amplifier(s) connected to the B-230.

l: Pre out 1, 2, 3, 4: are the preamps output, allowing for connection of up to 4 power amplifiers for easy bi-amping, tri-amping and SAXO..

m: EPS input for external power supply (Not for audio).

n: DenLink: A DenLink cable must be connected directly from this terminal to other Densen products in the system, allowing the Densen products to communicate, and also allowing multiroom setup.

Densen B-230

Pre amplifier



Technical features:

Line & tape inputs:

4 & 2

Preouts:

4

Power supply size:

2x20VA

Storage capacity:

60.000uF

THD + Noise @ rated output:

Less than 0,005%

Frequency response (+0 -3db):

2-500.000Hz

Weight/shipping weight:

7,5/8,5 Kg

Product dimensions (WxDxH):

444x310x64mm

Upgrade possibilities:

External power supply, Bi-amping, tri-amping, SAXO, phonostage, Gizmo, surround board and multiroom.

o: Main input. Only power the amplifier with the mains voltage indicated on the sticker on the back panel.

p: Power on/off switch.

q: Expansion port for surround board

Front panel:

r: Standby: Sets the preamp on standby, by pushing standby again, the preamp will start up, with input selection set to the input last used, and the volume setting set to the volume last used. When a Link cable is used, pushing "standby" will also put other products connected to the system on standby.

s: Arrow down: This button decreases the volume

t: Arrow up: This button increases the volume

u: >: This button will toggle forwards between the inputs

v: Proc.:

If there is NO surround board internally in the B-250: Pushing "Proc" will toggle between processor mode and normal stereo mode.

In Processor mode, using volume will adjust the volume level on the external Densen processor.

Using the input selector in Processor mode determines which input will be sent to the processor for processing.

If there is a Surround board internally in the B-230, first push will switch to the surround board, second push will choose external processor and third push will be back to normal stereo mode.

Using external processor or surround board, the front channel signals are sent directly through the B-250 to the power amp.

The surround board are used with a DVD or SACD

which has analogue 5.1 or 7.1 output.

x: Status: Pushing this button you will be able see the preset volume and the levels on each channel when a surround board is installed.

All features of the B-230 can be remote controlled by the Gizmo..

Densen B-250

Pre amplifier

The new reference pre amplifier from Densen is perhaps the most advanced stereo preamp on the market. It is filled with advanced solutions, which all share the goal of giving you even more musicality.

The volume is controlled by an extremely precise attenuator made of Vishay metal film resistors, which is switched by relays controlled by the microprocessor. This results in an unsurpassed precision and refinement, and the attenuator

contains no less than 200 steps! It contains a socket for the SB Board for surround, as well sockets DP-03 and DP-06 MM and MC stages. The amplification

stages are all completely new

designs, based on

advanced class A

designs, which

have been encapsulated on the board

to avoid any kind of inter-

ference with the delicate signal,

while producing a musicality which is truly outstanding by any standards.



Back panel connections:

a: Ground screw for grounding turntables.

b: CD input (line input). If used with a Densen CD Player, connect the CD Player here for optimum remote performance.

c: Tuner input (line input). If used with a Densen Tuner, connect the Tuner here for optimum remote performance.

d: Line 1: (line input). This is a line input that can be converted by internally mounting a DP-03 MM or DP-06 MC board on a turntable input. To connect the DP-boards correctly, take off the top cover, and remove the two black jumpers from the DP socket on the left of the mains board, when seen from the back panel. Mount the DP-board according to the manual included with your DP-board. Mount the DP-board so that all 12 pins on the socket on the board are mounted in the holes on the socket of the DP-conne-

ctor.

e: Line 2: (line input), a normal line input.

f: Tape 1 input.

g: Tape 1 output (connects to line in on your recording device). It is always the channel you are listening to, that is sent to the Tape deck for recording, so do not switch input during recording. Tape monitoring is not possible. If you need to be able to monitor your recording, use a headphone connected to your tape deck.

h: Tape 2 input.

i: Tape 2 output (identical to Tape 1)

j: Processor in: Connect the output from a Densen processor here.

k: Processor out: Connect the input from a Densen processor here.

When using the processor switch on the front panel

of a B-250, the preamp stages of the B-250 will be set to off, and the signal sent from the input selector of the B-250 to a separate processor and after processing the front signal will be sent back through the processor input directly to the power amplifier(s) connected to the B-250.

l: Pre out 1, 2, 3, 4: are the preamps output, allowing for connection of up to 4 power amplifiers for easy bi-amping, tri-amping and SAXO.

m: EPS input for external power supply (Not for audio). Use 2 x DNRG to upgrade the sound quality using dual mono circuitry.

n: DenLink: A DenLink cable must be connected directly from this terminal to other Densen products in the system, allowing the Densen products to communicate, and also allowing multiroom setup.

Densen B-250

Pre amplifier



Technical features:

Line & tape inputs:

4 & 2

Preouts:

4

Power supply size:

3x20VA

Storage capacity:

100.000uF

THD + Noise @ rated output:

Less than 0,005%

Frequency response (+0 -3db):

2-500.000Hz

Weight/shipping weight:

8/9 Kg

Product dimensions (WxDxH):

444x310x64mm

Upgrade possibilities:

External power supply, Bi-amping, tri-amping, SAXO, phonostage, Gizmo, surround board and multiroom.

o: Main input. Only power the amplifier with the mains voltage indicated on the sticker on the back panel.

p: Power on/off switch.

q: Expansion port for surround board

Front panel:

r: Standby: Sets the preamp on standby, by pushing standby again, the preamp will start up, with input selection set to the input last used, and the volume setting set to the volume last used. When a Link cable is used, pushing "standby" will also put other products connected to the system on standby.

s: Mute: allows the user to mute the signal. Second push on "mute" brings volume back to previous level.

t: Arrow down: This button decreases the volume

u: Arrow up: This button increases the volume

v: <: This button will toggle backwards between the inputs

x: >: This button will toggle forwards between the inputs

y: Proc.:

If there is NO surround board internally in the B-250: Pushing "Proc" will toggle between processor mode and normal stereo mode.

In Processor mode, using volume will adjust the volume level on the external Densen processor.

Using the input selector in Processor mode determines which input will be sent to the processor for processing.

If there is a Surround board internally in the B-250, first push will switch to the surround board, second push will choose external processor and third push will be back to normal stereo mode.

Using external processor or surround board, the front channel signals are sent directly through the B-250 to the power amp.

The surround board is used with a DVD or SACD which has analogue 5.1 or 7.1 output.

z: Status: Pushing this button will enable you to see the preset volume and the levels on each channel when a surround board is installed.

All features of the B-250 can be remote controlled by the Gizmo.

Densen B-305

Power amplifier

The B-305 is an exciting new power amplifier from Densen, aimed both at pre/power combinations, and at bi-amp amplification in connection with the Densen integrated amplifiers. It contains an advanced power amplifier with 2x60W in 8 ohms, and 2x120W in 4 ohms. Due to the huge power supply, the B-305 can drive most loads with an ease that belies its modest size, while retaining a truly musical sound, which is in the best Densen tradition. It contains



selectable gain, to allow easy use in a minimalist system with a CD player with variable volume as source. It also has an internal socket for the SAXO crossover to allow upgrade to an active system. Naturally all inputs and outputs are made of gold plated connectors, and it has custom made capacitors as well as all the other unique qualities that characterise a true Densen design.

Back panel connections:

a: Speaker terminals. The amplifier is prepared for one pair of speakers. Red must be connected to red/+ on your speakers, and black to black/- on your speakers. Left channel must be connected to left side speakers, and right channel to right side speakers. Do not short circuit.

b: EC Input: The B-305 has an internal socket for an electronic crossover, to facilitate active systems. When an electronic crossover is used, the preamp must be connected to this input.

c: Normal input (from preamp).

d: Gain select will adjust the amplifier to fit to either passive or active pre amplifiers. When using the B-305 with a passive preamplifier or with a CD player with variable volume (and using no preamp) the gain must be set to: high.

e+f: DenLink connection for Densen products with link. DenLink allows the power amp to go into power down mode when you press standby on your preamp. Allows the components to communicate with each other and for multiroom applications.

g: Main input. Only power the amplifier with the mains voltage indicated on the sticker on the back

panel. The mains input also contains a socket for fuses, which must only be replaced with same type of fuse as indicated on the sticker on the back panel.

h: Power on/off switch.

Front panel:

i: Red light indicating the amplifier is on.

Densen B-305

Power amplifier



Technical features:

Power output in 8 ohm:

2x60W

Power output in 4 ohm:

2x120W

Power supply size:

360VA

Storage capacity:

20.000uF

THD + Noise @ rated output:

Less than 0,01%

Frequency response (+0 -3db):

2-400.000Hz

Weight/shipping weight:

12/14 Kg

Product dimensions (WxDxH):

444x310x64mm

Upgrade possibilities:

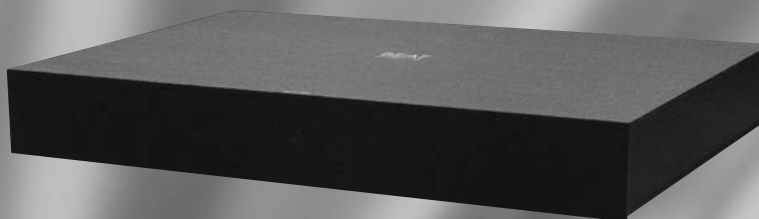
Bi-amping, tri-amping and SAXO.

Densen B-310

Power amplifier

The B-310 is the successor to the critically acclaimed B-300. The B-310 is 2x80W in 8ohm and 2x160W in 4ohm. The power supply is massive with no less than 60.000uF, which allows the B-310 to control even the most difficult loads. Compared to the B-300, the B-310 is a giant step forward. The sound is more refined and dynamic, while preserving the musicality that was the B-300's trademark. It has the features you would expect from a Densen amplifier: the DenLink con-

necter that allows for automatic standby from a Densen pre- or integrated amp; Bi-wire terminals for easy bi-wiring; a socket for SAXO for easy upgrade to an active system; and an external gain switch for easy adjustment between active and passive systems. You will not find a more musical power amplifier at this price level.



Back panel connections:

a: Speaker terminals. The amplifier is prepared for one pair of speakers, but has 2 separate outputs per channel, to allow bi-wiring (separate speaker cables for bass and midrange/treble). Red must be connected to red/+ on your speakers, and black to black/- on your speakers. Left channel must be connected to left side speakers, and right channel to right side speakers. Do not short circuit.

b: EC Input: The B-310 has an internal socket for an electronic crossover, to facilitate active systems. When an electronic crossover is used, the preamp

must be connected to this input.

c: Normal input (from preamp).

d: Gain select will adjust the amplifier to fit to either passive or active pre amplifier. When using the B-310 with a passive preamplifier or with a CD player with variable volume (and using no preamp) the gain must be set to: high.

e+f: DenLink connection for Densen products with link. DenLink allows the power amp to go into power down mode when you press standby on your preamp. Allows the components to communicate with each other and for multiroom applications.

g: Main input. Only power the amplifier with the mains voltage indicated on the sticker on the back panel. The mains input also contains a socket for fuses, which must only be replaced with same type of fuse as indicated on the sticker on the back panel.

h: Power on/off switch.

Front panel:

i: Red light indicating the amplifier is on.

Densen B-310

Power amplifier



Technical features:

Power output in 8 ohm:

2x80W

Power output in 4 ohm:

2x160W

Power supply size:

500VA

Storage capacity:

70.000uF

THD + Noise @ rated output:

Less than 0,01%

Frequency response (+0 -3db):

2-400.000Hz

Weight/shipping weight:

12/14 Kg

Product dimensions (WxDxH):

444x310x64mm

Upgrade possibilities:

Bi-amping, tri-amping and SAXO.

Densen B-320

Power amplifier

The B-320 is the successor to the critically acclaimed B-300XS and is built directly on the B-300XS. The B-300XS was the most sold Densen power amp ever. Now it has been tweaked and fine tuned to deliver an even more impressive performance. The

B-320 contains an output stage built using Densen's unique DMCD technology. This makes the B-320 extremely fast and precise, while retaining

unlimited control of the speakers that are connected. The bandwidth is also extreme and goes straight to 400.000Hz, resulting in improved slew-rate. This amplifier has - like any

Densen amplifier - the capability to drive any loudspeaker on the market. The sound is fast, transparent and dynamic while still having the refinement of a true musical performer.



Back panel connections:

a: Speaker terminals. The amplifier is prepared for one pair of speakers, but has 2 separate outputs per channel, to allow bi-wiring (separate speakers cables for bass and midrange/treble). Red must be connected to red/+ on your speakers, and black to black/- on your speakers. Left channel must be connected to left side speakers, and right channel to right side speakers. Do not short circuit.

b: EC Input: The B-320 has an internal socket for an electronic crossover, to facilitate active systems. When an electronic crossover is used, the preamp

must be connected to this input.

c: Normal input (from preamp).

d: Gain select will adjust the amplifier to fit to either passive or active preamplifiers. When using the B-320 with a passive preamplifier or with a CD player with variable volume (and using no preamp) the gain must be set to: high.

e+f: DenLink connection for Densen products with link. DenLink allows the power amp to go into power down mode when you press standby on your pre amp. Allows the components to communicate with each other and for multiroom applications.

g: Main input. Only power the amplifier with the mains voltage indicated on the sticker on the back panel. The mains input also contains a socket for fuses, which must only be replaced with same type of fuse as indicated on the sticker on the back panel.

h: Power on/off switch.

Front panel:

i: Red light indicating the amplifier is on.

Densen B-320

Power amplifier



Technical features:

Power output in 8 ohm:

2x100W

Power output in 4 ohm:

2x200W

Power supply size:

750VA

Storage capacity:

90.000uF

THD + Noise @ rated output:

Less than 0,01%

Frequency response (+0 -3db):

2-400.000Hz

Weight/shipping weight:

12/14 Kg

Product dimensions (WxDxH):

444x310x64mm

Upgrade possibilities:

Bi-amping, tri-amping and SAXO.

Densen B-330

Power amplifier

The B-330 is a direct descendent from the top of the line B-350 monoblock. The B-350 monoblocks act as the internal reference at Densen, and now Densen introduces the B-330 as the direct descendent from the B-

350. Basically, the B-330 is a stereo power amp based on the B-350 technology, and uses the distinct monoblock cabinet with its recessed

heat-sinks as the basis for an extremely affordable reference power amplifier. The B-330 contains several exciting features. Externally on the back panel there is

a switch to adjust the gain, so it either works perfectly with a traditional preamp or with a CD with variable output. There is also a DenLink connector, allowing for Link connection to other Densen products, and for auto

power on/off. The D-Sub connector can be daisy-chained in multiroom systems. The B-330 is also prepared for the SAXO electronic crossover. This

is done by mounting the crossover internally in the B-330 in a socket. The SAXO crossover will fit all passive speakers on the market.



Back panel connections:

a: Speaker terminals. The amplifier is prepared for one pair of speakers. Red must be connected to red/+ on your speakers, and black to black/- on your speakers. Left channel must be connected to left side speakers, and right channel to right side speakers. Do not short circuit.

b: EC Input: The B-330 has an internal socket for an electronic crossover, to facilitate active systems. When an electronic crossover is used, the preamp must be connected to this input.

c: Normal input (from preamp).

d: Gain select will adjust the amplifier to fit to either passive or active preamplifiers. When using the B-330 with a passive preamplifier or with a CD player with variable volume (and using no preamp) the gain must be set to: high.

e: DenLink connection for Densen products with link. DenLink allows the power amp to go into power down mode when you press standby on your pre amp. Allows the components to communicate with each other and for multiroom applications.

f: Main input. Only power the amplifier with the mains voltage indicated on the sticker on the back

panel. The mains input also contains a socket for fuses, which must only be replaced with same type of fuse as indicated on the sticker on the back panel.

g: Power on/off switch.

Front panel:

h: Red light indicating the amplifier is on.

Densen B-330

Power amplifier



Technical features:

Power output in 8 ohm:

2x120W

Power output in 4 ohm:

2x240W

Power supply size:

750VA

Storage capacity:

110.000uF

THD + Noise @ rated output:

Less than 0,01%

Frequency response (+0 -3db):

2-500.000Hz

Weight/shipping weight:

14,7/17,7 Kg

Product dimensions (WxDxH):

444x310x64mm

Upgrade possibilities:

Bi-amping, tri-amping and SAXO.

Densen B-340

4 ch power amplifier

Despite the name, the B-340 is not an upgraded B-300, but rather a version of the B-320 with 4 channels and slightly reduced output power. In use with a stereo power amp you have a total of 6 channels allowing for 5.1

or the new 6.1 / 7.1 system

with active subwoofer. If

you are looking for the

ultimate in surround

simply use two B-340's,

giving you 8 / 7.1 channels

and maximum flexibility. The B-340 is a

multipurpose 4 channel power amplifier. It can be used in an

almost endless array of combinations. The effect of using the

B-340 in bi-amp mode is stunning, as it always is when you bi-amp. But here you can take bi-amping to another level, because you can use the SAXO crossover, and have a true

active system (by removing your spe-

akers' crossover, and using

the SAXO instead...). No

local or global feed-

back is one of the key

issues of the B-340. The

result of this is an extremely

low output impedance for a true non-

feedback amplifier. This is true flexible high end, for peanuts.



Back panel connections:

a: Speaker terminals. The amplifier is prepared for two pair of speakers. Red must be connected to red/+ on your speakers, and black to black/- on your speakers.

b: Input (from preamp). Also use this input when using the electronic crossover.

c: The inputs are marked with a number, which refers to the output terminal numbers (input 1 will go to output 1, input 2 will go to output 2 etc). Input 1 and 3 are for Left channel, input 2 and 4 are for right channel. When used as a Bi-amp system, you can either use 2 pairs of signal cables from the preamp, or use the switch marked "normal", where you choose

between normal operation, or bi-amping where inputs 1+3 and 2+4 are connected together internally so you do not have to use 2 pairs of signal cables.

Please note: it is ONLY the inputs being connected together, the amplifier is still in bi-amp mode, and under NO CIRCUMSTANCES must the outputs be connected together.

d: Gain select will adjust the amplifier to fit to either passive or active preamplifiers. When using the B-340 with a B-100 for bi-amping, with a passive preamplifier or with a CD player with variable volume (and using no preamp) the gain must be set to: high.

e+f: Link connection for Densen products with link. Allows the components to communicate with each

other and for multiroom applications.

g: Main input. Only power the amplifier with the mains voltage indicated on the sticker on the back panel. The mains input also contains a socket for fuses, which must only be replaced with same type of fuse as indicated on the sticker on the back panel.

h: Power on/off switch.

Front panel:

i: Red light indicating the amplifier is on.

Densen B-340

4 ch power amplifier



Technical features:

Power output in 8 ohm:

4x60W

Power output in 4 ohm:

4x120W

Power supply size:

800VA

Storage capacity:

80.000uF

THD + Noise @ rated output:

Less than 0,01%

Frequency response (+0 -3db):

2-400.000Hz

Weight/shipping weight:

11/13 Kg

Product dimensions (WxDxH):

444x310x64mm

Upgrade possibilities:

Tri-amping and SAXO.

Densen B-350

Mono block power amplifier

The B-350 is the culmination of years of research here at Densen. The B-350 has for several years been the internal reference, and therefore it is a pleasure to be able to show audiophiles all over the world the true musical world of Densen.

Made without any compromises at all, the B-350 contains some outstanding features and qualities, and represents the state-of-the-art in amplifier technology. The power output is 125W in 8 ohm, and 250W in 4

ohm, with the first 40Watt in true class A. With a 750VA transformer and a storage capacity of 100.000uF and 4 separate power supplies, the B-350 presents a forceful and refined

sound, no matter what speaker you

connect. Like all Densen

power amplifiers, it has

a lot of features, but

the main issue is the

sound, which simply must

be heard to be believed.



Back panel connections:

a: Speaker terminal. The amplifier is prepared for one speaker. Red must be connected to red/+ on your speaker, and black to black/- on your speaker.

b: Input: The B-350 has an internal socket for an electronic crossover, to facilitate active systems. When an electronic crossover is used, the preamp must be connected to RED (upper) input. For use without the electronic crossover connect to WHITE (lower) input (from preamp).

c: Gain select will adjust the amplifier to fit to either passive or active pre amplifier. When using the B-350

with a passive preamplifier or with a CD player with variable volume (and using no preamp) the gain must be set to: high.

d: Link connection for Densen products with link. Allows the components to communicate with each other and also allows for multiroom applications.

e: Main input. Only power the amplifier with the mains voltage indicated on the sticker on the back panel. The mains input also contains a socket for fuses, which must only be replaced with same type of fuse as indicated on the sticker on the back panel.

f: Power on/off switch.

Front panel:

g: Red light indicating the amplifier is on.

Densen B-350

Mono block power amplifier



Technical features:

Power output in 8 ohm:

1x125W

Power output in 4 ohm:

1x250W

Power supply size:

750VA

Storage capacity:

100.000uF

THD + Noise @ rated output:

Less than 0,01%

Frequency response (+0 -3db):

2-500.000Hz

Weight/shipping weight:

14,7/17,7 Kg

Product dimensions (WxDxH):

444x310x64mm

Upgrade possibilities:

Bi-amping, tri-amping and SAXO.

Densen B-400+ / XS

CD player

The two Densen CD players are both built around the same drive unit with a glass lens. Even though the front panel is very simple in layout, the CD-players actually contain a lot of features, which can be accessed via the

Gizmo remote. If you have

the older B-400, it can

be upgraded to the B-

400+. The B-400+ is

based on the B-400 XS,

which is now a reference for

several audio magazines. You can upgra-

de the B-400+ to the XS version. One of the reasons for this is

the unique PlusBit Technology®. Developing the B-400XS, we have done a lot of rethinking about traditional CD player design, and have come up with several unique solutions. The

XS converter contains the ground-

breaking new PlusBit

Technology® from

Densen. In the B-

400XS, the Plus- Bit

Technology® mathe-

matically adds one extra bit,

so that the original source material, inste-

ad of containing 16 bits, contains 17.



Back panel connections:

a: Preout 1: Line level output of the B-400.

b: Preout 2: Line level output of the B-400, allows headphone amps to be connected directly to the B-400.

c: Digital out on/off: Allows the digital output to be set to off when not in use, for optimal performance.

d: Digital out: conventional digital COAX output with a BNC connector for highest sound quality.

e: Digital Denlink: digital output for updating the B-400 with a separate Densen D/A converter.

f: Link: Link connection for Densen products with link. Allows the components to "speak" together and allows for multiroom.

g Link: Link connection for Densen products with link. Allows the components to "speak" together and allows for multiroom.

h: Main input. Only power the CD-player with the mains voltage indicated on the sticker on the back panel. The mains input also contains a socket for fuses, which must only be replaced with same type of fuse as indicated on the sticker on the back panel.

i: Power on/off switch.

Front panel:

j: STOP: Stop playback.

k: PAUSE: Pause playback.

l: PLAY: Begin playback

m: OPEN: Open and close drawer.

n: <: Previous track.

o: >: Next track.

p: INVERT: Inverts the absolute phase of the signal. When the phase is inverted, an indicator in the display lights up with the word: INVERT. Normal use shows the word: OFF.

q: STATUS: Contains the following functions:

When the B-400 is used without a remote or when the B-400 is used with a GIZMO-remote, and the display is programmed to be in on mode.

Densen B-400+ / XS

CD player



Technical features:

Line outputs:

2

Digital outputs:

2

Power supply size:

2x20VA

Storage capacity:

25.000uF

D/A converters:

2

D/A converters type:

Just listen...

Weight/shipping weight:

7,5/8 Kg

Product dimensions (WxDxH):

444x310x64mm

Upgrade possibilities:

Upgrade to XS version.

First push changes the display reading to: remaining time of the current track. Second push changes the display reading to: remaining time of the whole CD. Third push changes the display reading to normal.

When the B-400 is used with a GIZMO-remote, and the display is programmed to be in off mode.

First push lights up the display.

Second push puts the reading of the display to: remaining time of the current track.

Third push puts the reading of the display to: remaining time of the whole CD.

Fourth push puts the reading of the display to normal.

Display:

r: The Display contains the following information:

STORE: Lights up when programming is done via a GIZMO-remote.

PLAY

PAUSE

REPEAT: Lights up when repeat is pushed on the GIZMO-remote.

REMAIN

DEMAG: Each time the drawer is open, the B-400 demagnetizes the signal path for 10 seconds at a frequency so high it is not audible.

INVERT

Six fields with numbers, which are as follows:

First two fields: Indicates tracks when the CD player is not playing or the display is set to indicate total remaining time.

Second two fields: Indicates minutes.

Third two fields: Indicates seconds.

The dot in between the second and third fields indicates where minutes stop and seconds begin.

Functions only useable with the GIZMO-remote: Numeric keypad, Programming.

All front panel functions can also be controlled from the GIZMO-remote.

Densen B-800

FM stereo tuner

Everybody told us, "just make a Tuner and let's have a complete system". However, compromise has never been a part of the Densen vocabulary, and we all remember the late nights spent listening to the airwaves during our youth and discovering new music. That made the whole project a challenge, and already early on in the project we knew we were on to something special; as we compared the tuner to a well-respected reference tuner, our head honcho's

girlfriend said; "there is no difference in tuners" before hearing the B-800. But after 5 minutes she said, "I didn't know there could be such a big difference..." The B-800 is hyper sensitive, and will tune in to even relatively weak stations. Judging from the front panel, the B-800 has very few features, but on the rear of the B-800 are switches for wide/narrow and tuning sensitivity, making it possible to utilise the B-800 to Hoover the airwaves...



Back panel connections:

- a: Antenna: 75 ohm coaxial cable connection for FM reception.
- b: Search level: define the minimum quality of the reception, before the Tuner stops searching.
- c: DX/Local: change between local or DX reception of stations.
- d: Link connection for Densen products with link. Allows the components to communicate with each other and for multiroom applications.
- e: RCA: output for preamp/integrated amplifier.
- f: EPS: External Power Supply. For future upgrades with external powersupplies.
- g: Main input. Only power the tuner with the mains

voltage indicated on the sticker on the back panel.

- h: Power on/off switch.

Front panel:

- i: Stereo/Mono switches between stereo and mono. Indicated in the display.
- j: Store: Used for storing presets. A maximum of 99 can be stored. Find the station you want to store. Push "Store", use the "<" and/or "5" push buttons to find the preset number you want to use, and push "Store" again, and the preset is stored.
- k: Mode: the mode buttons toggles between Program (preset stations), Search (manual search of stations) and Autosearch (automatic search for stations).

l: <: Search downwards in frequency or station. A consistent push means search downwards in frequency. A single quick push equals one number down in the presets.

m: >: Search upwards in frequency or station. A consistent push means search upwards in frequency. A single quick push equals one number down in the presets.

n: Status: When the tuner is in Display off mode (can only be switched to display off by using the Gizmo remote), a push switch on the display. One push more (or first push when in "Display on mode" changes the display read out, to indicate the search level.

All front panel functions can also be controlled from the GIZMO-remote.

Densen B-800

FM stereo tuner



Technical features:

Line outputs:

1

Station preset:

50

Search level steps:

15, 35, 75, 300

Storage capacity:

10.000uF

THD + Noise @ rated output:

Less than 0,03%

Weight/shipping weight:

7/9 Kg

Product dimensions (WxDxH):

444x310x64mm

Upgrade possibilities:

External power supply.

Gizmo

System Remote

This is the Densen system Remote with a capital R. Instead of supplying a simple plastic remote we decided to make the ultimate remote. The Gizmo uses a new way of transmitting infrared signals called burst mode. This secures a long trans-

mission distance, and enables you to use the Gizmo without having to point it directly at the product to be controlled. It has an internal rechargeable battery, which means you do not have to change the batteries, just connect the charger.



Front panel:

a: Inputs: With these you select the input on the amplifier, and you decide which product to control (if you want to control CD, you must push CD, to "wake" the CD up, before you can operate the CD functions)

b: Light: for control of the forthcoming light controllers from Densen.

If you have pushed this button, you must wait 5 seconds before you can operate other functions.

b: Processor: When you push this you choose processor mode on your Densen amplifier, and functions related to amps are now only for processor use. To get to normal mode again, push once more.

c: Repeat: Repetition of all tracks on a CD.

c: Shift: Activate hidden functions by pressing this button before the next.

c: Store: For programming tracks on CD, and for programming stations on Tmter, etc.

e: Invert: Inversion of the absolute phase on the B-400 and other forthcoming products with phase inversion possibility. When the light "INVERT" lights up on the display, the signal is inverted. Normal is invert light off.

f: Stop: Stops playback of the CD player.

f: Pause: Pauses the playback of the CD player.

f: Play: Starts playing the CD player.

g:<: Skips to the previous track on the CD-player or

station preset on the tuner

g: Open: Opens and closes the drawer.

g: >: Skips to the next track or station.

h: <<: Search backward.

h: >>: Search forward.

i: Volume up and down.

j: Status: When the display is in normal mode:

j: Standby: Sets the system on standby.

j: Mute: First push mutes the system, second push sets the volume to previous level.

Gizmo

System Remote

Change display mode:

Shift and then Status within less than 1 second, and you have changed the display to "off" mode, where it only lights up for 3 seconds when operating the player, and then fades out. To change back to "on" mode push the same combination again.

Gizmo functions for:

B-110 / B-130 / B-150 / B-230 / B-250

By pushing the status button you will be able to set the preset volume, that is the volume at which the amp automatically will be set when turned on. The preset can be changed volume up and down and stored by first pressing "shift" and then "store". If you press status again and have a surround board mounted you will be able to see and adjust levels for all channels.

Gizmo functions for B-400:

Numeric buttons: refers to tracks.

Pushing 1 and then 1 is track 11 and so on.

To programme tracks for CD playback, follow these instructions:

- 1) CD player must be in "stop" mode (not playmg)
- 2) Push store.
- 3) Then > until the right track appears on the display.
- 4) Push store to store the choice, and prepare for next track to be stored.
- 5) Then > until the right track appears on the display.
- 6) Push store to store the choice, and prepare for next track to be stored.
- 7) Then > until the right track appears on the display.

8) When ready, push store and then play to start playback..

When the B-400 is used with the Gizmo and the display is in on mode: Push status once to view remaining time of the current track on the B-400. Second push will show remaining time of the whole CD on the B-400.

When the B-400 is used with a GIZMO-remote, and the display is programmed to be in off mode.

First push lights up the display.

Second push puts the reading of the display to: remaining time of the current track.

Third push puts the reading of the display to: remaining time of the whole CD.

Fourth push puts the reading of the display to normal.

Gizmo functions for B-800:

Numeric buttons: refers to preset stations.

Pushing 1 and then 1 is preset 11 and so on.

< : one push equals one number down in the presets.

> : one push equals one number up

<< : one push means autosearch searches downwards.

>> : one push means autosearch searches upwards.

Stop : stops autosearch

Store: Used for storing presets. A maximum of 99 can be stored. Find the station you want to store. Push "Store", use the "<" and / or ">" push buttons to find the preset number you want to use (or use the numeric keypad), and push "Store" again, and the preset is stored.

Status: when the tuner is in Display off mode (can only be programmed to display off by using the Gizmo remote), a push switches on the display. One push more (or first push when in display on mode)

changes the display readout, to indicate the search level.

"Shift" followed rapidly by "status" : puts the display in off mode. Another "shift" followed rapidly by "status" puts the display back in normal mode.

Shift followed by << manual tuning downwards

Shift followed by >> manual tuning upwards

Shift followed by pushing the numeric keypad. Direct frequency input. (example: 9850 = 98.50 Mhz.)

Gizmo functions for Surround boards:

You can adjust the levels on each channel with the Gizmo.

The numeric keypad functions as an overview of channels. Imagine seeing your home theater from above. This makes it easy to identify each channel on the keypad. Press shift and the following key to adjust the channel:

2: Center channel

4: Surround left

5: Subwoofer

6: Surround right

7: Back left

9: Back right

Front left and right (1 and 3) cannot be adjusted.

Adjust the level with the up and down button.

Faults:

Product does not respond to commands from remote: Example: You cannot control your CD player: Another input button has been selected on the remote. Push CD, and it will function again. Reduced transmission range of the Gizmo: The batteries have run dry and must be recharged. Charge for 24 hours. The Gizmo can still be used while charging.

DP-Drive/01c/03/04/06

MM/MC Phono stages

The DP-03 is the successor to the DP-01 MM stage. It is a giant step forward in sound and technology, and despite its modest price, it will offer you a world class raa when mounted in any Densen amplifier. Due to the technical design, the DP-03 works with all MM cartridges on the market, and actually does this with an outstanding sound quality. The DP-03 fits in all the Densen products ever made. The new DP-04 and DP-06 are based on the very popular DP-02MC



stage. In these new designs, it has been redesigned and improved, with even better sound circuits, and LED's instead of the DP-02s light bulbs, in the advanced light driven power supply, which secures an extremely clean power for the delicate circuits to give an extremely noise free and musical performance from any MC or MM cartridges. The DP-Drive works as a docking station for phonostages if you do not have Densen pre amp or integrated amp.

Back panel connections:

a: Ground connector.

b: Phono in: The turntable is connected to this input.

c: Pre out: This is connected to a line input of the pre-amp or integrated amplifier with which the DP-Drive is used.

d: The DP-Drive comes complete with an external power supply. This power supply is connected to this input.

e: Power: On/Off: switch. Please set the switch to off, when the DP-Drive is equipped with a DP-02, and the DP-Drive is not in use.

Front:

f: Power indicator: light is red when the power is on.

DP-01c MM is for use with DP-Drive/B-200/B-100
DP-03 MM is for use inside B-250/B-150/B-130/B-110

DP-04 MM+MC is for use with DP-Drive/B-200/B-100

DP-06 MM+MC is for use inside B-250/B-150/B-130/B-110

DP-Drive/01c/03/04/06

MM/MC Phono stages



f



a
b
c
d
e

Technical features:

Due the special technical construction the MM stages can be used with ALL MM cartridges. The MC stages can be used with ALL MC cartridges.

Signal to noise ("A" weighted):

MM stages 92dB, MC stages 90dB

Channel separation:

90db

THD + Noise @ rated output:

Less than 0,01%

Frequency response (+/-0,1db):

20-20.000Hz

DP-Drive dimensions:

111x310x64 mm

DNRG

External powersupply

DNRG (say it fast, and you will know the meaning of the name) is an external powersupply for use with most new Densen products. The DNRG is an affordable upgrade with a great effect.



Back panel connections:

When using a DNRG, disconnect the product that will be powered by the DNRG from the main power outlet. Use the enclosed XLR to connect the DNRG to the main product. Be aware that some products require two DNRGs to function.

Connecting a DenLink cable to the DNRG makes power down possible when pressing system standby on the remote or pre / integrated amp.

The dimensions of the DNRG are the same as the DP-Drive.

SB-01 / 02 Surround boards

The SB boards (Surround Boards) are a revolution for new features. The SB boards are add-on boards for all integrated and pre amplifiers (except the B-200). This is a very easy and sonically superior way to enter the world

of home cinema or Super

Audio system. All our

products are initially

dedicated 2 channel

products, but with the SB

boards you get 5.1 and 7.1

line input and 5.1 and 7.1 line pre-out. This

means that you can easily connect a surround processor,

DVD-player or SACD-player. If you have a system consisting of a preamp and 2 channel power amp, with the SA boards implemented you can then connect a B-340 (4 channel

amplifier) and then have 6 channels

(5+1) of high grade amplifi-

cation. The SB boards

exist in two versions;

The SB-02 board is the

standard version with a

competitive price, allowing for

easy Surround. SB- 01 is the reference ver-

sion, with extremely high quality preamp stages.



Back panel connections:

The surround board serves as a preamp for all channels except for the front left and right channels. You must connect the left and right line output from your source (e.g. a universal player) to a conventional left and right input on the preamp or integrated amp. Connect the other outputs from the source to the matching sub, center etc. input on the built-in surround board. Connect the preouts from the surround board to an external power amplifier.

Press the processor button on the Gizmo or on the front and you will toggle between using an external surround processor via the processor in and output, and the surround board. When the surround board is active the display will show a "P".

You can use the surround board in combination with any stereo input. Select the stereo input the source is connected to and press processor to activate the surround board.

Optimising your setup

Please read...

Perfect sound

There are numerous things you can do that will improve the sound of your equipment, each with 5% .You may not be able to hear all of these improvements, but you will undoubtedly be able to hear the result of 15 times 5% improvement...

Positioning:

It is important that your equipment is placed on an even and physically stable surface. This will guard the sensitive electronics against vibrations, for instance from your speakers when they are playing.

Wiring:

Power:

If you use a distribution box, it is important that you connect your net cables in the following order:

1. (closest to where the power comes from) pre amplifier (if you have one).
2. Record player (if you have one).
3. Power amplifier (or an integrated amplifier, if that is what you have).
4. CD player (if you have one).
5. Tape recorder (if you have one).
6. Other items wired to the distribution box.

The reason for this, is that all products let out a bit of dirt on the net, and receive a bit of dirt in return. By ranking them like this, those products most sensitive to noise will get power first, and those least sensitive get it last (when it has become more dirty because of the other units).

Net phase:

If you live in a country where it is possible to position the power plug in two ways, you should try powering up each product separately, without connecting any other cables to the product.

By running your fingers softly across the cabinet, you may be able to feel a slight shiver in your fingertips. Now try reversing the power plug, and touch the cabinet once more with your fingertips. The position of the power plug that produced the least amount of shivering in your fingertips, is the correct one.

If you have a net phase meter, you should of course use this; if you have a voltmeter, the correct position of the power plug is the one that produces the lowest voltage between cabinet and ground (for instance radiator or the like).

Signal cables:

Clean these before wiring them, for instance with a cloth and spirit, do NOT use detergent. Do not rub too much as this could cause the gold plating to come off some of the plugs.

Sockets on the unit:

Clean these with a soft cloth.

Sockets on loudspeakers:

Clean these with a soft cloth.

Speaker cables:

Make sure that your speakers are correctly phased - that is black/ - on the back of your Densen, to black/ - on your speaker, and red/ + to red/ + on your loudspeaker.

Bi-wiring:

If you bi-wire, make sure that the cables in pairs are connected to the correct unit.

Bi-amping:

If you bi-amp with an integrated amplifier and a power amplifier from Densen, make sure that the level between the products is correct. There is a gain selector on the rear of the power amp.

If you bi-amp with two identical power amplifiers, we recommend that you use the one amplifier for the one channel (side) and the other amplifier for the other channel (side). This is, for various technical reasons, the correct way to do it, but be aware that if you have decided to use left channel in the one amplifier to drive the treble, then likewise you must use left channel on the other amplifier to drive the treble.

Tri-wiring:

If your loudspeaker has the option for tri-wiring, and you use two identical amplifiers to bi-amp, we recommend that you let one channel drive bass units, and let middle range and treble be driven by the other channel.

Cable recommendations:

Densen equipment has been designed to work with virtually any loudspeaker, interconnect or cable. So it basically is down to what you believe sounds the best. It is a matter of personal taste and there is no right or wrong. The only way to find out if your Hi-Fi system sounds good with a particular cable is to listen.

DeMagic:

We recommend that you use Densen's DeMagic at least

once a week, to diminish magnetic distortion.

Positioning of speakers:

This is almost a science in itself, but the general guideline is that, from your listening position, you should have the same distance to each speaker, and that each speaker has the same distance to back wall and side wall (if possible).

Floor speakers should be placed on spikes mounted so that the speaker is as stable as possible. Furthermore, it is important that the speaker is flush (horizontally and vertically), as this ensures that the radiation is identical for both speakers.

Optimum performance

All Densen products require a burn-in period to perform at their best. Please allow 100 hours of use before they are ready to perform 100%.

To obtain maximum listening enjoyment, leave your Densen products on semi-permanently. The units must be left on for approximately 12 hours before they reach their optimum performance level.

Mission statement

Our goal is to make hi-fi equipment that will ensure you fantastic musical experiences with your sound system. We will not compromise - all the choices we make when we design a new audio product, have only one goal, and that is to give you the best possible sound!

Our main focus is to achieve the highest possible "airguitar factor"; only when your equipment sounds so good that it makes you want to stand up and play the airguitar or be an "air conductor" - only then have we achieved what we wanted: to create musical experiences so great that you forget everything and focus 100 % on the music



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