

CONNECTING



- 1) Analog outputs (Left & Right).
- 2) Line 1 input.
- 3) Line 2 input.
- 4) Bluetooth receiver (not on HD100).
- 5) USB Input (B type).
- 6) Coaxial input.
- 7) Optical input.
- 8) Trigger output<sup>(\*)</sup>.
- 9) Power plug.
- 10) ON/OFF power switch.

<sup>(\*)</sup> Trigger output: this appliance is equipped with a Trigger that allows the switch ON/OFF of any amplifier equipped with the same kind of trigger inputs (ATOLL's amplifiers).

Trigger cable must be a Male to Male jack plug 3.5 mm (1/8").

DETAIL OF FUNCTIONS



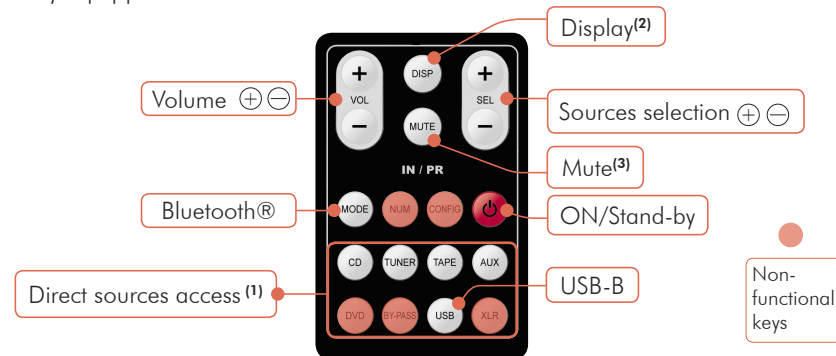
- Inputs leds indicators:**
- 11) LINE 1 input (analog).
  - 12) LINE 2 input (analog).
  - 13) Optical input (digital).
  - 14) Coaxial input (digital).
  - 15) USB-B (digital) and Bluetooth® (blue LED HD120) input.
  - 16) Volume setup knob.
  - 17) Headphones outputs<sup>(1)</sup>.
  - 18) Sources selectors knobs.
  - 19) ON/OFF indicator led<sup>(2)</sup>.
  - 20) ON/Stand-by knob.

<sup>(1)</sup> Headphones outputs (jack 6,35 mm): the connection of one or two headphones commutates the relay and thus cut the sound on the level of the preamp outputs.

<sup>(2)</sup> Led indicator color: orange=Stand-by; green=Switch on; red=Mute.

REMOTE CONTROL

Your Integrated can be used with our global ATOLL remote control (optional). Your Remote Control is fully equipped with 2 Lithium 3V batteries CR2025.



- <sup>(1)</sup> Direct Access keys:
- CD key = Line 1.
  - Tuner key = Line 2.
  - Tape key = OPT (Optical input).
  - AUX key = COAX (Coaxial input).
  - USB key = (USB input).

<sup>(2)</sup> Display: allows switching ON/OFF all indicators leds of the front panel. They'll always get on after a Stand-by or Switch On the appliance.

<sup>(3)</sup> MUTE: MUTE key of the remote cuts Headphones outputs and also the Preamp. outputs of the Appliance. To remove from MUTE, use the MUTE key again or with the volume  $\oplus$  key.

BLUETOOTH FOR HD120 ONLY (KEY MODE)

Your appliance allows the reception of audio signals sent since any devices having a Bluetooth® transmitter (Smartphone, tablet, computer...).

**First time association:**

- Activate the Bluetooth® connectivity of your emitter device.
- Select your appliance on the list of possible receiver (named ATOLL HD120).
- With key of the remote or with keys SEL  $\oplus$  /  $\ominus$  (18) of the front panel, select the Bluetooth input of your HD120 (led 15 lighting in blue).

The whole audio signals which will be read on your device source will then be transmitted towards your HD120. Your emitter device will remain associated until you switch off your HD120 but he will remain visible for your emitter.

**Association of another emitter:**

- Once associated to an emitter, you'll need to switch completely your HD120 off in order to make it visible from another emitter.

The quality of reception of the signal can be dependent on the power of the Bluetooth® emitter and the distance between the 2 devices. **Avoid being up to more than 5 meters of your HD120 for a correct reception without any risks of signal cuts.**

## ENTREE USB ASYNCHRONE (FOR HD120)

Your appliance is equipped with a High-Res. asynchronous USB Input (B type) (5). It will be possible to use it only when you'll have downloaded the appropriate driver on your computer. This driver can be freely downloaded on our website at the page:



<http://www.atoll-electronique.com/fr/produits/convertisseur-dac/convertisseur-dac200/>

You will find with this manual a comprehensive note for the install of this driver.

To avoid any troubles in the transfer of High Resolution files (24 bits/192 kHz), it is recommended to use a USB interconnect with ferrite.



## ACCEPTED FORMATS

- Accepted format on optical and coaxial Inputs: 16-24 bits (44,1 kHz, 48 kHz, 88,2 kHz, 96 kHz, 176,4 kHz and 192 kHz).
- Accepted format on USB Input:
  - DSD: DSD64 & DSD128.
  - PCM: 16-24 bits (44,1 kHz, 48 kHz, 88,2 kHz, 96 kHz, 176,4 kHz, 192 kHz, 352,8 kHz et 384 kHz).



## TECHNICAL DATA

Power Supply:	12,8 VA
Efficacy Power:	1,4 W / 32 Ω
Impulsion Power:	6,8 W/ 32 Ω
Total of capacitors:	12 425 μF
Number of Inputs:	– 2 analog – 3 digital – 1 Bluetooth (HD120)
Inputs Impedance:	220 kΩ
Impedance on Headphones	
Outputs (X2):	1 Ω
Frequency response:	1 Hz – 150 kHz
Rising Time:	3 μs
Signal/Noise Ratio:	100 dBA
Distorsion at 1kHz:	< 0,01%
Dimensions (mm) :	320×220×60
Weight:	2,5 Kg

(Data are subject to changes)



## CAUTIONS

- **Do not make any connections when your device is turned on.**
- Install your appliance in a dry, well ventilated place away from any source of heat.
- Do not put anything on your preamplifier.
- Avoid any short-cut.
- Strictly respect polarity ⊕ & ⊖ and switch left & right.
- To avoid any loss of signal on the Bluetooth input, avoid putting your device in a closed cabinet.



## ADVISES

- To optimize the performance of your device, you should switch it on at least half an hour before any listening, the time for the power stage to reach its ideal working temperature.
- Your device will give you optimal listening quality after this time-lapse.
- Between two uses, it is, therefore, preferable to let the device in the standby position so that it remains at its optimum temperature.
- At night or when you leave your home, it is best to use the main switch to turn off the device.
- To optimize the sound quality of your system, we recommend that you choose good-quality connection cords. Do not hesitate to ask your specialist dealer for advice.



## PRECAUTIONS ABOUT LISTENING WITH HEADPHONES

**At full power, a long listening with Headphones can damage the ears of the user. Make pauses and limit the total duration of use in the day without exceeding one hour per day at average volume.**

*You have just bought a Headphones Amplifier & Preamp./Converter HA100 or HD120, with exceptional audiophile performances. We really thank you for your confidence in our products. To get the best part of this product, please read carefully this manual.*



**YOU WILL FIND  
ENCLOSED**

- A Headphones Amplifier & Preamp./Converter HD100 or HD120.
- A power lead.
- An RCA wire.
- A Trigger link cable.
- This manual with the certificate of guarantee.
  
- Optional: A Remote control.

**ATOLL ELECTRONIQUE®**  
*is a French Company that designs, manufactures, and  
commercializes all its products.*





GUARANTEE ~ HD100-HD120

To present to your dealer with the invoice when returning back the appliance:

ATOLL ELECTRONIQUE®  
Bd des Merisiers  
50370 BRECEY  
FRANCE

Date of purchase:

Place of purchase:

Buyer signature:

Dealer Stamp

# OWNER'S MANUAL

## HEADPHONES AMPLIFIER & PREAMP. CONVERTER

### HD100 HD120

