CD/USB Player with SMART LOOP, EFFECTS and HOT CUE

(((**AUDIOPHONY**
E Q U I P M E N T S

CDX4
CD-USB Media Controller
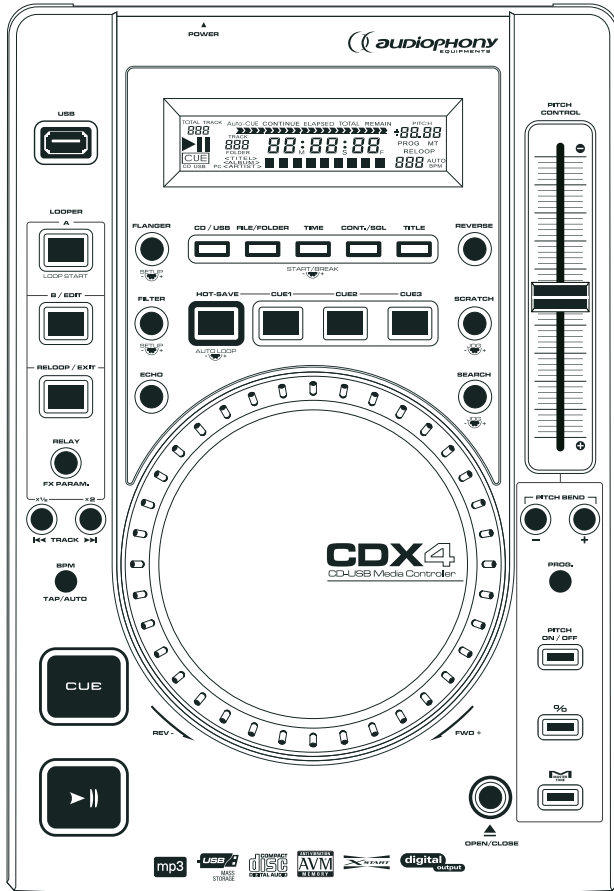
CDX4
CD-USB Media Controller

USER GUIDE
9812 - October 2010 Version 1.0

1 - Safety information

Important safety information

This unit is intended for indoor use only. Do not use it in a wet, or extremely cold/hot locations. Failure to follow these safety instructions could result in fire, electric shock, injury, or damage to this product or other property.

This product contains non-isolated electrical components. Do not undertake any maintenance operation when it is switched on as it may result in electric shock.

Any maintenance procedure must be performed by a CONTEST authorised technical service. Basic cleaning operations must thoroughly follow our safety instructions.

CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN

WARNING : This unit contains no user-serviceable parts. Do not open the housing or attempt any maintenance by yourself. In the unlikely even your unit may require service, please contact your nearest dealer.
In order to avoid any electrical malfunction, please do not use any multi-socket, power cord extension or connecting system without making sure they are perfectly isolated and present no defect.

Risk of electrocution
To prevent the hazard of electric shocks, do not use extension cords, multi-socket or any other connection system without making sure metal parts completely are out of reach.

Sound levels
Our audio solutions deliver important sound pressure levels (SPL) that can be harmful to human health when exposed during long periods. Please do not stay in close proximity of operating speakers.

WARNING

Recycling your device
• As HITMUSIC is really involved in the environmental cause, we only commercialise clean, ROHS compliant products.
• When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

Symbols used

This symbol signals an important safety precaution.

IMPORTANT

The CAUTION symbol signals a risk of product deterioration.

CAUTION

The WARNING symbol signals a risk to the user's physical integrity. The product may also be damaged.

WARNING

Instructions and recommendations

1 - Please read carefully :
We strongly recommend to read carefully and understand the safety instructions before attempting to operate this unit.

2 - Please keep this manual :
We strongly recommend to keep this manual with the unit for future reference.

3 - Operate carefully this product :
We strongly recommend to take into consideration every safety instruction.

4 - Follow the instructions:
Please carefully follow each safety instruction to avoid any physical harm or property damage.

5 - Avoid water and wet locations :
Do not use this product in rain, or near washbasins or other wet locations.

6 - Installation :

We strongly encourage you to only use a fixation system or support recommended by the manufacturer or supplied with this product. Carefully follow the installation instructions and use the adequate tools.

Always ensure this unit is firmly fixed to avoid vibration and slipping while operating as it may result in physical injury.

7 - Ceiling or wall installation :
Please contact your local dealer before attempting any ceiling or wall installation.

8 - Ventilation :

The cooling vents ensure a safe use of this product, and avoid any overheating risk.
Do not obstruct or cover these vents as it may result in overheating and potential physical injury or product damage. This product should never been operated in a closed non-ventilated area such as a flight case or a rack, unless cooling vents are provided for the purpose .

9 - Heat exposure :
Sustained contact or proximity with warm surfaces may cause overheating and product damages. Please keep this product away from any heat source such as a heaters, amplifiers, hot plates, etc...

10 - Electric power supply :
This product can only be operated according to a very specific voltage. These information are specified on the label located at the rear of the product.

11 - Power cords protection:

Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at lugs, convenience receptacles and the point where they exit from the fixture.

12 - Cleaning precautions :

Unplug the product before attempting any cleaning operation. This product should be cleaned only with accessories recommended by the manufacturer. Use a damp cloth to clean the surface. Do not wash this product.

13 - Long periods of non use :
Disconnect the unit's main power during long periods of non use.

14 - Liquids or objects penetration :
Do not let any object penetrate this product as it may result in electric shock or fire.
Never spill any liquid on this product as it may infiltrate the electronic components and result in electric shock or fire.

15 - This product should be serviced when :

Please contact the qualified service personnel if :
- The power cord or the plug has been damaged.
- Objects have fallen or liquid has been spilled into the appliance.
- The appliance has been exposed to rain or water.
- The product does not appear to operate normally.
- The product has been damaged.

16 - Inspection/maintenance :

Please do not attempt any inspection or maintenance by yourself. Refer all servicing to qualified personnel.

17 - Operating environment :

Ambient temperature and humidity: +5 - +35°C, relative humidity must be less than 85% (when cooling vents are not obstructed).
Do not operate this product in a non-ventilated, very humid or warm place.

2 - Our recommendations

2.1 - Before disconnecting the power supply unit

Once you are done with the CD player, please make sure the CD compartment is closed by pressing **Open/Close** button before disconnecting the power supply unit.

2.2 - Compact discs

a - Handling precautions

Please protect your discs against dust, grease deposits and finger marks.
If your disc is dirty, please use a dry cloth to clean it.
Do not use petrol, alcohol, solvents, anti-static agents or silicon-coated fabrics to clean your discs.

Handle your discs with great precautions by protecting its surface, especially when inserting/ejecting or storing them.
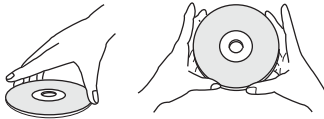
Do not bend your disc.
Do not heat it.
Do not widen the hole at the center of the disc.
Do not write anything on screen-printed parts.
If condensation is formed above the disc, please let it dry without using heat sources.
Do not insert cracked or damaged discs as the very high rotation speed of your player could damage it.

b - Storing precautions

Always eject your disc after using it.
Store your discs in an appropriate case, protected from shocks and dust.
Do not store discs in places:
- Exposed to sun rays.
- Prone to dust accumulation or humidity.
- Near heat sources (radiator...).

3 - Main features

- USB Mass Storage player for USB key or hard disk
- Front slot-in player compatible with audio CDs or MP3
- ID3 TAG: Tracks and artists identification
- Folder: Browse through folder trees to find the tracks you need
- New DSP with Echo, Flanger, Filter, Reverse and Scratch effects + adjustable volume and settings
- SMART LOOP: Match your loop with the tempo
- Auto loop: Your loop automatically matches the tempo
- 3 HOT CUE
- Auto and manual BPM
- Adjustable loops: x2, /2 and B point
- Adjustable pitch: 8/16/100% for MP3 and audio sources
- Master Tone: change the pitch, keep the same tonality
- AVM: 15-second Anti Vibration Memory system
- Auto-Cue and playlist programmation
- Multi-functional and touch-sensitive jog wheel
- Highly visible blue LCD display
- Analogue and digital outputs
- Xstar and Relay connections

  Your CDX4 can be updated via its USB port.
  We also strongly recommend to check the latest version available on our website www.audiophony.com/en/.
  Each updated features a tutorial describing the required tools and procedure to update your device.

4 - Technical specifications

- Power supply: 230V AC
- Power consumption: 22 W
- Dimensions : 220 x 315 x 100 mm
- Weight: 2.5 kg

5 - Getting started

5.1 - Checking the package contents
The package must contain the following articles:
- Your player
- The user guide
- 1 RCA - RCA cable
- 1 power cord connected to the CD player

5.2 - Installing your device
a - Install your player over an even surface
b - Please make sure your player has been installed in a ventilated area, protected from sun rays, excessive temperatures and humidity.

The surface inclination must not exceed 15° for the player to be fully functional. Discs may not be played,

inserted or ejected properly if the inclination exceeds 15°.
The LCD display was designed to be readable from certain view angles described on the figure opposite. Please make sure your device is properly installed in order to read the display easily.
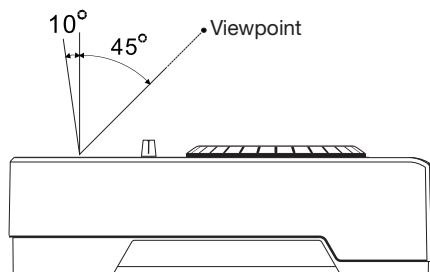
5.3 - Connections
a - Unplug your CDX4.
b - Connect the RCA cable to one of the inputs of your mixing desk.

Only use the supplied cables. Using other cables might cause severe damages to your device.
Please make sure the power switch is positioned on OFF before connecting anything to your device in order to prevent severe damages.

6 - Compatible medias

6.1 - Supports

Your CDX4 is able to read the following CD formats:

CD-Audio   CD-Audio   CD-R   CD-RW*

Note 1:
Using CD-RW regularly is not recommended as it damages the lens.

Note 2: About displaying text:
48 characters total can be displayed. The text will scroll from right to left if the text includes more than 8 characters.
Only alphanumerical characters and some symbols can be displayed.

Your CDX4 is able to play several media formats:
- MP3
- CDA

Please note a CD must contain one single media format for your CDX4 to be able to read it.
The MP3-Pro, MP4, WMA, etc. formats are not compatible with your CDX4. Only use MP3 or CDa as other formats might damage your player.
Please use high-quality medias, burnt at low speed.

Notes:
- Some CD-R/CD-RW recorded via CD writer might not be readable for many reasons such as the disc characteristics, scratches, stains, condensation etc.
- Some discs might also be impossible to read if recorded via CD writer due to the parameters of the operating systems. Please make sure to format your discs correctly before rewriting. For more details, please read the user guide supplied with your CD writer.
- This device cannot read partially recorded or not finalised CD-R or CD-RW.
- For more information about handling CD-R/CD-RW, please consult the safety precautions supplied with each disc.

About CD-R/RW
Due to the very particular structure of CD-R/CD-RW discs, they should not be let in Pause mode at a precise point, as it may result in difficulties to resume the playing.
As a result, we strongly recommend you to use archive desks to save your most important files.

About DualDisc
This product was designed to comply with the music CD regulations. However, performances and flawless reading are not guaranteed if you are using non-compliant CDs.

6-2 - Playing MP3 files

MP3 files may have two formats: Constat bitrate (CBR) and Variable bitrate (VBR). This unit supports play-back and DJ playback of both CBR and VBR MP3 files. However, you might notice that the super-fast search speeds are slower for VBR files,
in comparison with CBR files. As a result, if speed is an important factor to you, we recommend to use MP3 files in the CBR format. The MP3 files must meet the following criterias indicated below:

|		
MP3 Format	**MPEG-1**	Compatible with the Audio Layer-3 sampling rate from 32 kHz, 44,1 kHz, 48 kHz; Bit rate: 32 Kbps at 320 Kbps.
	MPEG-2	Compatible with the Audio Layer-3 sampling rate from 16 kHz, 22,05 kHz, 24 kHz, Bit rate: 16 Kbps (stereo) a 160 Kbps.
	ID3 Label	Compatible with the ID3 Versions 1.0/1.1/2.2/2.3/2.4. Indicates the title, album, artist, and genre. Alphanumeric characters and some symbols only can be displayed.
	File extension	.mp3, .MP3, .mP3, .Mp3
WMA Format	**File extension**	.wma, .WMA

7 - Initialisation

1 - Connect your CDX4 to your mixing desk. The CD output is a Line-level (-10 dB) signal, transmitted via the audio out or digital out output from the rear panel.
2 - Connect your CDX4 to an electrical outlet (240V), using the supplied power cord.
3 - Activate your device by pressing the power button.
4 - Insert your CD into the front CD player slot or insert a USB support into the port provided for the purpose.

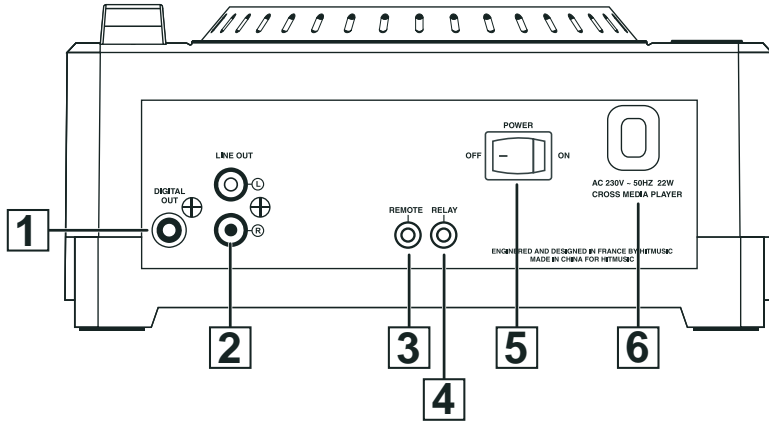⚠ **CAUTION**   Only use MP3 or CDa files as other formats might damage your player.

Standard connection to a mixing desk: e.g. the DIGITAL2

Audio cable (supplied)

Audio cable (supplied)
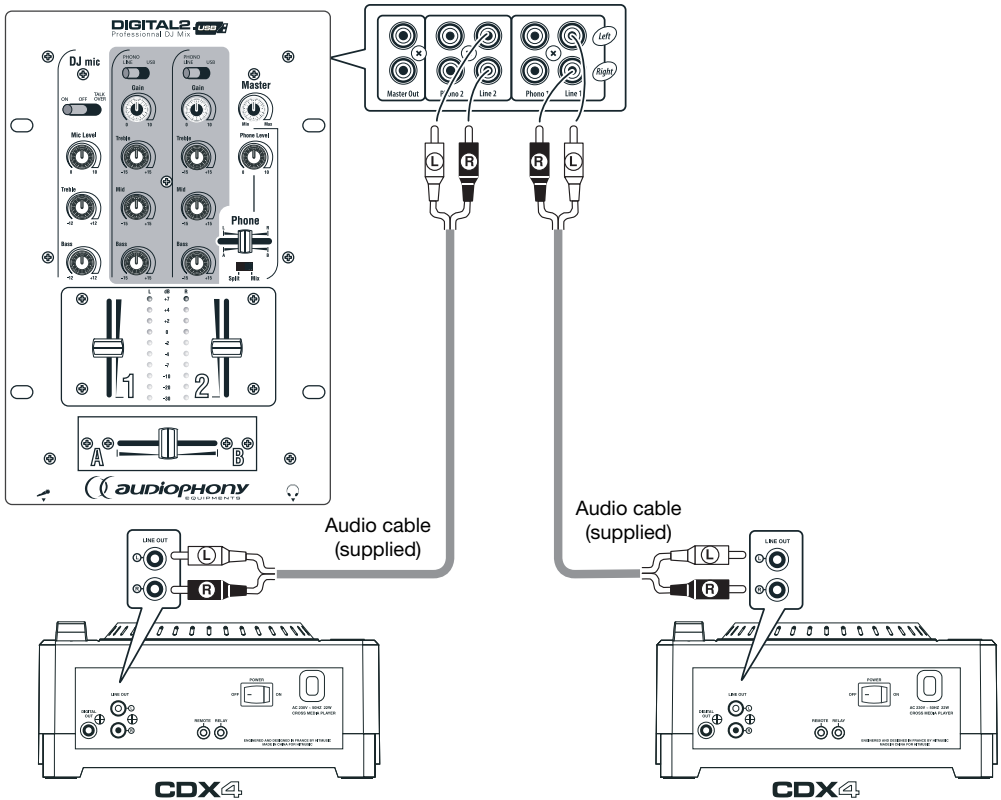
8 - Presentation

Rear panel

1 **Digital Out (RCA Stereo output)**
Stereo digital output, requires non-supplied specific cable to connect it to a D/A amplifier.

2 **Audio Out (Stereo output via 2 RCA sockets)**
Analogue audio output, -10dB.

3 **Fader start**
Connect here your mixing desk to use the PLAY/PAUSE functions via faders.

4 **Relay**
Allows you to use the RELAY function.
Connect another CDX4 here to activate this function.

5 **Power Button**
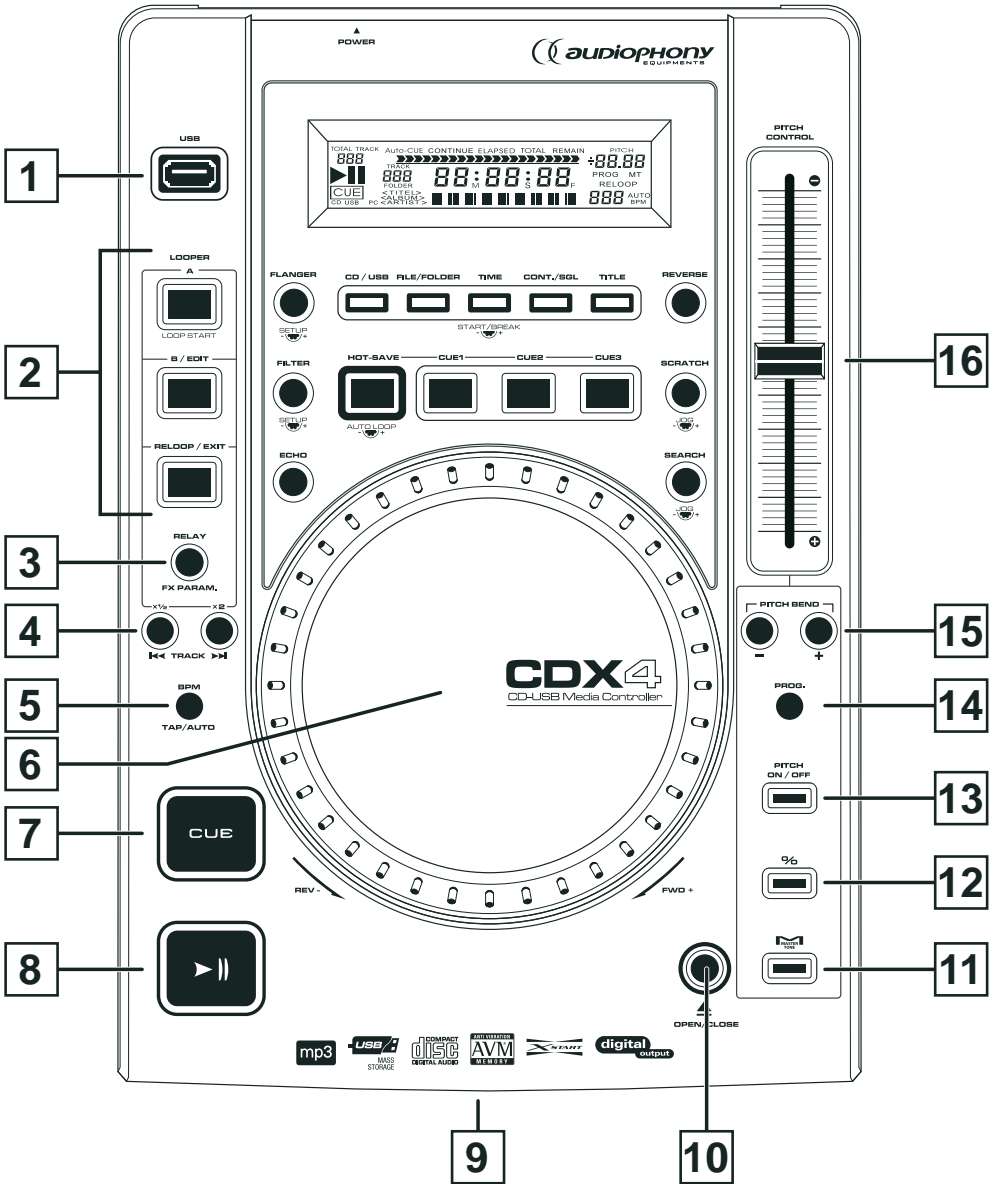Allows you to activate/deactivate your CDX4.

6 **AC INPUT**
Connect here your powwer cord. Does not require adapter if you are using a standard 220V European electrical outlet.

Note : Class 2 device which does not require to be earthed.

Front panel (Main functions)

1   **USB Input**
Connect your USB Mass Storage device here (key or HDD).

2   **LOOPER A / B/EXIT and RELOOP/EXIT buttons**
Allow you to create a perfect loop and modify it.

I : Creating a loop manually
a - Press **A**: The starting point of your loop has been saved. The **A** button lights up. This function is available when playing/pausing a track.
b - Press **B** to save the exit point of your loop. **A**,**B** and **RELOOP** buttons will flash to indicate you are in "loop" mode.
The display will indicate *RELOOP*.

A : Creating a loop automatically
a - Press and hold the **HOT SAVE / AUTO LOOP** button. The display will indicate the number of bars (4 beats) available for your loop.
Use the jog wheel to choose the number of bars; from 1/32 to 32/1.
b - Press **A** to save the starting point of your loop. The exit point will depend on the number of bars previously selected.

B : Modifying the length of your loop:
Your CDX4 allows you to modify your loop once it has been created.
You can modify the position of your **B** point at any time. Modifying the length of your loop can be monitored live.

a - Once your loop has been created, press **B** to modify it (**A**, **B** and **RELOOP** flash). **A** and **RELOOP** buttons will light off while **B** button will keep flashing.

b - Use the jog wheel as follows to modify the length of your loop and move the **B** point:
- Clockwise to increase its duration,
- Counterclockwise to decrease its duration.

c - Press **B** again to exit the modification mode. The **A**, **B** and **RELOOP** buttons will flash again to indicate you are back in "loop".

C : LOOPER: Modifying your loop depending on the tempo
Your CDX4 allows you to double or divide by two the duration of your loop.

     a - To double its duration, press ►►|.

     b - To divide its duration, press |◄◄.

This can be performed several times, as long as **B** is not positioned after the end of your track.

This can also be performed while playing/pausing a track.

D : Replaying your loop
You can also replay your loop by pressing **A**. The **A** point will then react as a Hot CUE starting from the beginning of your loop.

E - Leaving the "perfect loop" mode
You can go back to the standard playback mode from the "perfect loop" mode or while editing **B** by pressing **RELOOP/EXIT**. The current track will not be interrupted as only **A** and **B** points will be erased from the memory of your CDX4.
Press the **RELOOP** button to recall your loop at any time.
The recalled loop will be the one created with the initial **A** and **B** points.

3   **RELAY / FX PARAM Button**
This button features two different functions:
a - Press this button to activate the relay function. When your first player is currently playing a track while the second one is paused, this function allows you to automatically pause the track of the first player while resuming the track of the second player.
b - Once an effect has been activated, the RELAY button will flash and the adjustable parameters of the current effect will be indicated via the display. Use the jog wheel to modify such parameters.

4   **|◄◄ TRACK ►►| Buttons**

Once the "loop" mode has been exited, these buttons allow you to go to the previous/next track. In "loop" mode, these buttons allow you to modify the duration of a loop.

5   **BPM TAP/AUTO Button:**

This button allows you to determine the BPM (Beats Per Minute) of your track.

To do so, press this button consecutively by following the tempo of your track.

Press and hold this button to allow the CDX4 to calculate the BPM of your track automatically.

6   **Jog-Wheel:**

The jog wheels features many functions, depending on the modes and effects activated:

a - In **standard playback** mode, the jog wheel allows you to modify the playback speed in proportion to its rotation speed:
- Clockwise rotations increase the playback speed,
- Counterclockwise rotations decrease the playback speed.

The playback speed is not modified if the jog wheel remains inactive.

b - The **"scratch"** effect allows you to use the jog wheel to determine the playback mode, similar to using a turntable:
- Turn the jog wheel clockwise to play the track at a certain speed determined by the jog wheel rotation speed, ignoring the PLAY/PAUSE function,
- Turn it counterclockwise to play the track backwards, depending on the jog wheel rotation speed and ignoring the PLAY/PAUSE function.

The track will be resumed in standard playback mode when the jog wheel remains inactive.

c - The **"search"** effect allows you to use the jog wheel to increase the playback speed and search for a particular zone within your track.

Press and hold the **FX PARAM** button to modify the intensity of this effect.

d - The **"flanger"** effect allows you to use the jog wheel to determine the impact of a particular effect.

If you press and hold the **FX PARAM** key, you change the strength of the effect.

e - The **"filter"** effect uses the jog wheel to determine the filter position.

f - The **"echo"**, effect uses the jog wheel to determine the duration of an effect.

g - In **pause** mode, the jog wheel allows you to move the starting point of the playback (e.g. the CUE position).

The jog wheel ring will repeat the track each 15 ms while the plate will act as a turntable.

h - In **"boucle"** mode, the jog wheel allows you to precisely move the B point.

7   **CUE Button**

A CUE point is the precise moment from which the track will be played. In pause mode, press **CUE** to set the CUE point, the CUE button will then flash. When playing a track the CUE button will pause the player and go back to the CUE point previously determined.

a - PAUSE mode
- Short press the **CUE** button to place the cue point on the current track to the millisecond.
- Long press this button to start the track from the CUE point (the track will pause once this button is released and the player will be ready to resume the track from the CUE point).

b - PLAY mode

Press the **CUE** button to pause the current track and go back to the CUE point saved previously.

If no CUE point has been saved, the player will pause the current track and go back to its very beginning.

8 **PLAY / PAUSE Button**
Allows you to play/pause the current track.

9 **CD slot**

10 **OPEN/CLOSE Button**
Press this button to eject your disc. Discs cannot be ejected while tracks are being played in order to avoid accidental manipulations.

11 **Master Tone Button**
Press this button to activate or deactive the Master Tone mode.
This mode allows you to modify the playback speed via the pitch without modifying the tonality.

12 **% Button**
Gives you access to pitch settings: 8, 16 or 100%.
The current value will be indicated by the display each time you press this button.

13 **PITCH ON/OFF Button**
Activates or deactivates the pitch function.

14 **PROG**
Allows you to create playlists.
Creating a playlist:
a - Press the **PROG** button, the display will indicate P-01.
b - Select a track via the ⏮ TRACK ⏭ buttons.
c - Then press **PROG** again, the display will indicate P-02.
d - Repeat step **b** until your playlist is includes the tracks needed.
e - Press **PLAY** to confirm the program and pause the player to the beginning of the list.

15 **PITCH BEND + and - buttons**
Allows you to synchronise your track with another track. To do so, please make sure the **PITCH CONTROL** fader is already synchronised.
Use **+** to increase and **-** to decrease the current track speed.

16 **PITCH CONTROL Fader:**
Use this fader to adjust the pitch percentage (8%, 16%, 100%).
This percentage will remain active until you modify these settings or deactivate the PITCH function.

Front panel (advanced features)

1   **Flanger, Filter, Echo effect buttons:**
Activate or deactivate the **FLANGER**, **FILTER** and **ECHO** effects.
Press one of this button to activate the effect.
These effects cannot be added up, activating one of these effects will deactivate the current effect.

More details:
- The **Flanger** is an audio effect produced by mixing two identical signals together, one signal delayed by a small and gradually changing period. Use the jog wheel modify the duration of this effect. The intensity can also be adjusted, please refer to the jog wheel description for more details about this.
- The **Filter** allows you to cut out a frequency range sent by the player. Once activated, use the jog wheel to modify this effect. The intensity can also be adjusted, please refer to the jog wheel description for more details about this.
- The **Echo** repeats several times a few seconds within your tracks.
Once activated, use the jog wheel to modify this effect. The intensity can also be adjusted, please refer to the jog wheel description for more details about this.

2   **HOT-SAVE and CUE1-3 buttons:**
Allow you to save 3 CUE points on the current track, independently from the main CUE button.
   a - Proceed as follows to save a CUE point:
Press the **HOT-SAVE** button, the press the **CUE1**, **CUE2** or **CUE3**, the selected CUE button will then flash during 5 seconds before remaining lit.
   b - Use the programmed **CUE** button to go to your CUE point. The button will flash during 5 seconds before remaing lit.
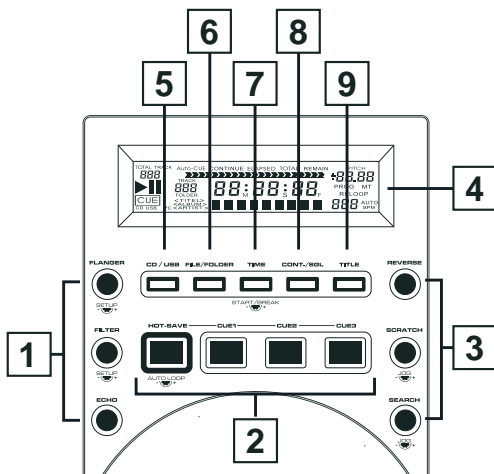
3   **Reverse, Scratch, and Search effects buttons**
Press one of these 3 buttons to activate or deactivate a mode.
These three modes cannot be added up.

- **Reverse mode**: The track will be played in reverse mode, from the end to the beginning. The jog wheel reactions are not affected.
- **Scratch mode**: The jog wheel acts as a turntable.
- **Search mode**: The jog wheel allows you to fast forward/backward within a track. During very fast forwards, the sound output might be more or less clear depending on the media quality.

4 **LCD Display:**
Indicates useful information.
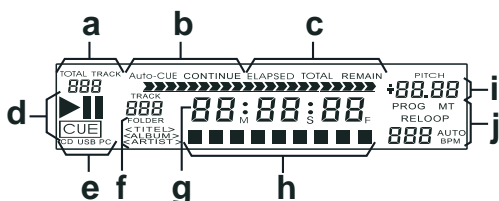
a - Track: Number of files within the current folder (or CD).

b - Playback mode
- **Auto-CUE**: The player will pause at the beginning of next track.
- **CONTINUE**: The player does not stop and moves onto next track at the end of the current one.

c - Elapsed time
- **ELAPSED**: Time of the current track
- **TOTAL**: Total duration of your CD (CDA only)
- **REMAIN**: Remaining time of the current track

d - Current state :
- ▶ Logo: the player is active
- ❚❚ Logo: player paused
- ❚❚ + CUE Logos: your player is paused at a CUE point.

e - Displays the current source

f - Displays the current information
- **FOLDER**: Search among folders / Folder name
- **TITLE**: Displays the track title (ID3TAG/CD-text)
- **ALBUM**: Displays the album title (ID3TAG)
- **ARTIST**: Displays the artist's name (ID3TAG)

g - Time indications:
Time is expressed in Minutes/Seconds/Frames (ms in CDA mode)

h - Displays information in text format

i - Pitch information

j -Additional information:
- **PROG**: Indicates a playlist is currently being used
- **MT**: Master Tone status (activated/deactivated)
- **RELOOP**: LOOP status (plays a loop when lit)
- **BPM**: Indicates the number of beats per minute.

5 **CD / USB Button:**
Allows you to select a source.

6 **FILE/FOLDER Button:**
Allows you to browse through the folders of your MP3 CD or USB source.
Press this button to browse through folders. Press again to select a track within a folder.

7 **TIME Button:**
Allows you to switch between the different time indications: either REMAIN (remaining time before the end of your tack), TOTAL (total elapsed time since the beginning of your CD - CDA only) and ELAPSED (elapsed time since the beginning of your track).
Also allows you to adjust the START/BREAK function by pressing the **PARAM FX** button.

8 **CONT./SGL Button:**
Allows you to switch from Auto-cue (player pauses at the end of a track) to Continue mode (the player reads the whole CD or repertory).

9 **TITLE Button:**
Allows you to display various data:
Title, **Album**, **Artist** (Empty: file name -MP3 only).
This function can only be activated if data are available.

Also allows you to charge a playlist from your support.
There are 2 compatible formats: M3U and XML.
Press and hold the **FX PARAM** button and press **TITLE** to switch from one format to the other.