

About the DN-HD2500

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Ever since a needle hit vinyl, DJs have been setting the standard for what is hot. Denon comes from that same philosophy and passion – leading the way and creating the path for DJ evolution. That path has led to the DN-HD2500. A hard-drive based, professional media player and controller offering a total all-in-one “nerve centre” that addresses a DJ’s ever changing needs. Flexible and packed with features, the DN-HD2500 is built for any event where professional-quality and flawless performance is expected.



Features of the DN-HD2500

- The built-in 40GB HDD stores thousands of songs, allowing the DN-HD2500 to be used as a primary “plug and play” full-featured compact system or as a backup system for DJs currently using laptops.
- Supports Qwerty [USB] keyboard for Playlist/Category creation and song search and multiple external USB mass storage devices direct or via USB 2.0 hub. **[Simply plug in devices to obtain powerful on-board features such as, Instant Start, Seamless Looping Scratching and File Searching, just to name a few. Up to 4 storage devices can be connected at once]**
- Denon’s DN-D4000 and DN-D4500 CD/MP3 players are supported natively by the DN-HD2500 (it’s easily upgradeable) and acts as a controller and media centre with CD media, internal HDD and external devices.
- Easily activate and have full parameter control with a unique Dry/Wet mix control of the 4 built-in effects: Flanger, Filter (High-Mid-Low), Echo and [world’s first] Echo/Loop. **[Tip: Dry/Wet mix control of effects can be adjusted by the turn of the jog dial]**
- 3 Platter Effects: Brake **[adjustable in real-time]**; Dump **[reverse sound without losing true forward time, like a radio edit]**; Reverse **[plays your music backwards]**
- For long mix transitions with high pitch resolution, a .02% for the 4% pitch range and .05% for the 10/16% pitch range as well as 24%/50%/100% ranges are available. **[Tip: Loop and Hot Starts can**

create sound samples when integrated with 100% pitch range]

- On-board Playlist function to create, edit and save up to 3 different types of Playlist categories. **[Tip: Click on Playlist button to access the categories, load via selections. Playlist function is most effective for mobile DJs as it keeps them ready for any types of crowd]**
- Future new Plug-ins freely available at www.denondj.com **[Connect the HD controller to the PC/Laptop with access to the internet]**
- Next File Function with Cross Fade [another world’s first] searches your next file by any criteria (without interrupting playback) and Crossfade seamlessly to that file for a smooth non-stop mix. Crossfade time is user adjustable. **[Tip: Crossfade can be switch on/off by a touch of the X-Fade button. When tracks are arranged properly via BPM with the Crossfade function switched on, it may seem like DJs are mixing even without putting a finger on the HD-2500!]**
- Multi-Function “Touch Sensitive” Jog Disc: File Searching; Scratch Effect; Pitch Bend; Frame Search. **[Click on Jog Disc button to select function for File, Scratch or Pitch bend] [Tip: Use the Jog Disc to control the effects intensity. Effects time fraction varies when Jog Disc is moved clockwise or anti-clockwise]**
- 4-Way BPM Counter: Auto Beat Detection **[BPM detected while track is played]**; Manual TAP **[BPM is calculated by tapping on the button. Manual Tap BPM will also help to auto calculate the effects time fraction]**; Manual BPM Input **[Select from a list of choices]**; Reads MP3/WAV BPM Metadata **[if available]**
- Memo Function: Cue point, BPM, Pitch Setting and Range, Pitch ON/OFF, Key Adj ON/OFF, and Seamless Loop A/B data can be stored directly to the file for later recall **[Tip: When a loop or cue is set for a track, press the MEMO button to store. Every time the same track is**

recalled, it will have the memo cue or loops saved]

- Key Adjust: Keeps vocals and music sounding true even when track speed is adjusted. **[Same function as ‘MASTER TEMPO’ in other brands]**
- Two Hot Starts and Seamless Looping: (A1/A2) can be made on the fly and easily turned into Seamless Loops and used as Stutter points as well. **[Tip: Select Hot start/cues by pressing A1/A2. Hot Starts can be used as beat samples, loop effects or real-time track extension. Hot Starts function is a favourite with mobile DJs as it helps to CUE sound samples to back-up emcees]**
- Loop A/B Trim: The A or B point for the seamless loops can be easily adjusted on-the-fly. **[Tip: Adjust in/out points of track by selecting Loop A/B. a 4-bar chorus can be extended to an 8/16-bar chorus to equalize a particular mix of a track. Loop effect just by a touch of a button!]**
- Power On Play: Unattended playback is possible upon power up. Each drive can be used independently for a two zone application. **[Tip: Assigned each driver to use as playback in different zones – needs other applications such as zone mixer]**
- Relay Play: Unattended playback is possible between both drives.
- 2-way Pitch Bend (Jog disc or buttons) **[Choice of using the jog disc or pitch bend buttons for pitch bending]**
- Quick Jump: Jump around within a track/file by precise user-adjustable increment time steps.
- Two-Way CUE Search System: Supports traditional Denon Cueing method as well as another popular style. **[CUE search is available in 2 different methods. DJs familiar with turntables will find cueing from the HD is as effective as the analog players]**

www.denon.dj/hd2500 ☺



Understanding Smoke Machines

"We need more smoke!" was the common cry in the entertainment scene. Whether it was for a large concert, a top danceclub or a small wedding gig, for years we have seen them, sold them, used them or at the least been in a situation where we have been engulfed by their vapours. But just how much do we actually understand the product? If you are an owner or operator of atmospheric devices, i.e., fog or smoke machines and hazers, then this article will let you understand more about the workings of this brilliant product.

Q. How do these machines make fog?

These machines use a very pure glycol and water based fog liquid that is pumped by the machine into a temperature controlled heat exchanger that vaporizes the liquid into thick clouds of fog. All fog machines need an initial warm up period. It will then generate fog for a short period then need to pause to reheat before they can make fog again. This will become a continuous cycle during its operation. The more professional machines can make fog without the reheat cycle in between at certain percentage output (e.g., Antari X-Series, Z-800II).

Q. How much liquid do they use?

You should refer to the product's Fluid Consumption Rate from the specification/option. In general, the smaller machines will use about one quarter of fog liquid every 2 hours if run continuously. Larger powerful machines can use four times as much fluid if run in the same manner.

Q. Can I run fog outdoors?

Yes, but you must protect the fog machine from the weather and moisture. Wind will greatly affect the visibility of your fog. And for indoor application please be in a well-ventilated space.

Q. What is a cubic foot of fog?

There is no industry standard of what a cubic foot of fog is. The numbers shown in manufacturer descriptions are only useful as rough guidelines.

Q. How can I keep the fog low to the ground or floor?

The machine should have low-hugging fog capability to produce chilling ankle-deep fog by lowering the high temperature produce from the heater (e.g., ANTARI ICE-101 and DNG).

Q. Will the fog generate high temperature within short period?

As a general rule, the safety distance is set 50cm from the spray nozzle. It is highly recommended to read the product user manual beforehand.

Q. How long will the fog last?

Indoors, it should be about 20minutes before it dissipates. It also depends on the density of the fog liquid used.

Q. Will the device trigger smoke detectors?

In general, smoke detectors are activated when heat or CO1 reached a certain level and sensed by the sensor. It is unlikely the smoke/fog produced by [most] fog machines would affect fire alarms or CO1 detectors. However, it is possible that smoke detectors may be activated by the smoke/fog coming from a machine. In such case, the sensitivity of the detector defines how dense the smoke/fog would activate the alarm. In general, smoke detectors would not be activated unless you directly inject smoke/fog to the sensor or the smoke/fog around your room is too dense. It is also possible the sensor is activated even with minor fog/smoke. To avoid a false alarm, you may also contact the manufacturer to understand the parameters of their detectors. If you are uncertain of what type of smoke detector your venue has, consult with the head of

maintenance or, as a last resort, notify the fire department and do a test run.

Q. Will wind affect the fog?

Wind plays a big factor. The particles that make up the fog are very small (1-2 microns) and even a light breeze will quickly disperse the fog.

Q. How much noise does a fog machine produce?

Fog machines do make some noise while they are generating fog. Generally, there are two kinds of sounds: The sound of the pump as it moves fog liquid from the reservoir to the heat exchanger; and the sound of the fog coming out of the nozzle.

Q. Do fog machines breakdown?

I remember an old saying: "Everything mechanical or electrical will eventually break down." Your goal should be to maintain your fog machine regularly after each use. The most important factor that can affect fog machine is its choice of liquid. Always use fog liquid that the manufacturer recommends and always clean the fog machine according to the instructions.

Q. Can a Fog Machine be used for pesticide or live plants?

Let's get this straight, fog machines are made for stage effects purposes. Anyway, if you introduce a non-recommended fluid or chemical into the machine, then after high heat temperature process, the chemical will change its state – and it may not be stable and volatile (and explode!).

Q. Is the fog generated a danger to people and animals?

The ingredients of the material used do not harm skin, neither to the respiratory system.

Q. Will the fog cause any effect to the interior decoration, computers or other fitting and furnishings?

No. The fog is actually generated from vaporizing fluid through thermal energy process by its heater. It shouldn't do any damage to furniture, computers and other fittings.

Q. What if the fog was sprayed on top of food?

Basically, the fog is non toxic. However, the original ingredients are processed through chemical combination. So it's better to discard the food.

Q. Why choose branded fog liquid?

Because manufacturer's knows what's best for their products. For example Antari Fog machines will have the best result with Antari brand liquid. This will significantly decrease the issues with a clogged heater. A no-brand liquid used with fog machines will only add more risk and maintenance costs. Don't be "Penny wise and pound foolish". Cheaper fluids contain less pure chemicals and usually more water. They also have a shorter hanging time meaning they dissipate faster.

Q. What's the difference with coloured fog liquids?

In the case of Antari, their fog liquid comes with 3 varieties for different applications: FLR (Pink) produces a light fog which quickly disappears; FLG (Green) creates a moderately dense and durable fog; FLY (Yellow) produces an extremely dense and very long-lasting fog.

Q. How long can I store fog liquid?

The liquid could be stored up to 3 years in a sealed container. You must store in a cool, dry area where there is no direct sunlight. However, use it as soon as possible when it's open and remember to close the cap tightly. ☺



Antari fog machine in an installation project



Antari fog machines in a concert