



*Pioneer*

**PRO**  
**DJ**

# The Pioneer DVJ-X1

Professional DVD Video/CD Player



# DVJ-X1: The Ultimate Entertainment Experience

Suddenly a huge sun is dazzling the crowd from the screen. The chorus of the track rings out, loud and clear. There's a roar of approval.

**Ground-breaking. Unique. Innovative. Astonishing.**

The Pioneer DVJ-X1 is all of these. And more. Quite simply, this revolutionary new unit is the future of DJing and audio-visual entertainment.

The **world's first** professional digital video-and-audio player, the DVJ-X1 combines Pioneer's market-leading CD Jog Wheel technology and CD audio player capabilities with the flexibility and capacity of DVD Video.

This exciting blend of technologies allows **synchronised** digital audio and video to be **manipulated** and played-back like never before. And by combining the skills of today's top DJs and VJs, DVJ-X1 users will deliver an original audio/video experience every time.

So, the DVJ-X1 not only creates a completely new market for clubs and bars to exploit, it also offers crowds a fresh form of entertainment and paves the way for a new breed of performer – **the DVJ.**



### Imagine the scene...

The underground club is a maze of darkened rooms and corridors, and swarming crowds. The floor fills as a dark and menacing tribal track **thunders** out over the PA and a time-lapse video of a gathering storm looms on the huge screens suspended above.

### The DJ is in control...

The crowd shouts out for more as the audio mix intensifies. A sample from a 70s' disco anthem breaks into the

deeply rhythmic track without warning, looping in perfect time to the **thumping** bass-line. The stark contrast between the two audio tracks is reinforced by the images on-screen...

The rain clouds darken as, out of nowhere, a line of dancers flash across the screens - then disappear and return. The dancers steps are synchronised to a double beat in the audio, in a teasing take-off of the disco-moves from that earlier decade. The club-goers love it, **electrified** by the dynamics of the mix in sound

and vision... The deep bass pounds out more insistently, as lightning flashes emerge from the clouds. Soon, these arcs of light are interspersed with a repeated image of fireworks in the sky: four explosions to every 4-beat bar. In vision, the crowd has been taken from one of Nature's own light shows to an example of the Man-made version...

As the audio continues, the DJ mixes and beat-matches some home-movie footage into the visuals. A **pretty** girl

flutters her eyes provocatively, a windsurfer zips across the surface of a lake and a beautiful girl shakes water droplets from her hair. The pattern repeats for a few bars until the images are reversed... and then reversed again. The movement gets faster and faster as the backwards-forwards motion reflects the increasing **speed** of the audio.

But now, the loop of the disco-hit is blending into the vocal hook of another floor-filler and this new track begins to **dominate**...

The crowd's on the edge, waiting to erupt. They raise their arms to acknowledge the current club **favourite** and the air is flooded with hands. Suddenly, the home-movie has gone and a huge sun is dazzling the crowd from the screen. The chorus of the track rings out, loud and clear. There's a roar of approval. Nobody on the floor has ever felt such intensity of experience in a club before; this awe-inspiring combination of sound and vision...

### The DJ-X1 in action





The DVD decade has coincided with a revival in the club scene and the arrival of digital DJs – a phenomenon closely associated with Pioneer’s Pro DJ brand.

Since launching its **first** digital CDJ player in 1994, the company has combined leading-edge technology – including the legendary Jog Wheel that’s used to scratch, speed up or slow down a track, or manually fine-tune cue points – with extremely durable components and superb functions.

The result? A series of stunningly designed CDJ players that are trusted and endorsed by the world’s top DJs and venues.

#### **The New Club Standard**

Pioneer’s **revolutionary** DVJ-X1 uses the industry-standard CDJ-1000MK2 CD player as its template, with the added bonus of DVD video playback capabilities.

The dual functionality of the DVJ-X1 makes it useful for clubs alternating between **digital** DJs and the new performers – the DVJs – who will find that the new machine has a similarly ergonomic layout to the audio-only unit.

For example, the DVJ-X1 has a Jog Wheel that uses Vinyl Emulation technology to recreate the feel of a traditional deck for CD playback, as well as a Wave Display that allows DVJs to see a track’s peaks and troughs

– making it even easier to handle. Skilled users wanting to exploit the full potential of this **professional** DVD /CD player will no doubt explore the unit’s sound-with-vision capability.

This allows the DVJ to use images that reinforce and enhance the style of music being played, either by working in harmony with the audio or by acting as a dramatic counterpoint instead.

Either way, DVJs will discover how easy it is to operate the DVJ-X1, to control the music and images together, and to push their **creativity** to a whole new level.



## DVJ-X1: The Art of the DVJ

The DVJ-X1 can playback a variety of CD and DVD formats\*. Digital videos might be the result of footage taken by the DVJ, **armed** with a digital camcorder. Or they could be specially commissioned material (perhaps with an audio-mix already in mind) or clips from a range of publicly available sources. Alternatively, they could be the special videos created by the dance labels themselves, which are now becoming increasingly common.

With professionally produced DVD content, such as a promotional music video available for re-use, the DVJ can choose to mix just the audio content into the track playing out, or else use the images only. This allows video footage to be used for comic or dramatic effect, or simply as a direct, visual representation of what's being played through the sound system.

\* The DVJ-X1 does not play the following formats: DVD-Audio (192 KHz 24-bit), Super Audio CDs or MP3.



Whatever the source, the moving images can be controlled in unison with the audio via the easy-to-use Jog Wheel. This means that DVJs can simultaneously control images and sound in exactly the same way as a DJ would **manipulate** music alone.

Real-time digital video scratches, loops and instant cues are all possible. And the video and audio streams always stay in perfect sync, even when being reversed or pitched.

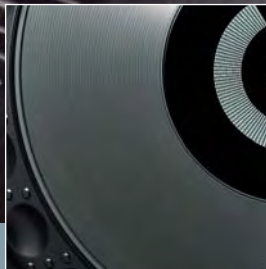
### **Magnificent Memory**

The DVJ-X1 offers enormous scope for flexibility in performance, not least by allowing the DVJ to store up to 360 AV loop and cue points on the removable 32-MB\* SD card that's also supplied.

The saved cue and loop points can be searched, selected and previewed using an external monitor connected via the preview output. There's also an emergency loop feature that

automatically loops four beats **seamlessly**, in line with the BPM. This allows the DVJ extra time to mix from one track to another.

\*SD card storage capacity subject to change.



# DVJ-X1: Functions & Features

**Digital technology from Pioneer's famous CDJ deck now enables precise control of image and sound.**

With the large and easy-to-use jog dial you can simultaneously control images and sound just the way you want to. The two-layer structure of the Jog Dial lets you use it for different operations: scratch using the top of the jog and pitch bend using the side. The smooth, heavy feeling enables extremely precise and delicate control.

## **Touch Sensor**

By lightly pressing the top of the Jog Wheel, images and sound stop immediately. When the Wheel is released, they restart instantly.

## **Scratch**

In Vinyl mode, press the top of the jog dial to stop play, then manually rotate the Jog Wheel with the top still pressed to enable "scratch" control of images and sound according to the speed and direction of the rotation. Releasing the Wheel resumes normal playback,

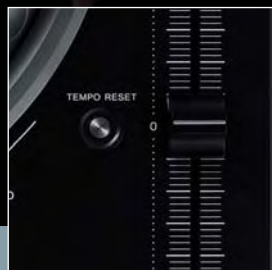
although the start up speed is adjustable.

## **Frame Search**

By rotating the Jog Wheel during a pause, the pause location can be shifted in units of 1/75 second, allowing for extremely accurate audio / video cueing.

## **Hyper Jog**

Selecting Hyper Jog Mode in Vinyl Mode doubles the speed that sound and images respond when manually rotating the Jog Wheel.



### Adjust the track speed

Speed up the tempo by moving the high performance 100mm tempo slider towards you (+), slow the tempo by pushing it away (-). Adjust the tempo even more accurately using the "Fine Variable Speed Adjustment" in 0.02% units (+-6% range).

### Tempo Control Range

Use the tempo control range button to change the maximum range of the tempo slider in four steps: ±6%, ±10%, ±16% and WIDE.\*



### Tempo Control Reset

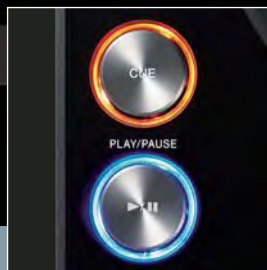
Regardless of the position of the tempo slider, the DVJ can select normal tempo (0%) by pressing the tempo reset button.

### Master Tempo

Control track speed without changing the pitch. The master tempo button allows pitch to be maintained while changing track speed.

### Quick Start

Play starts less than 0.01 seconds after



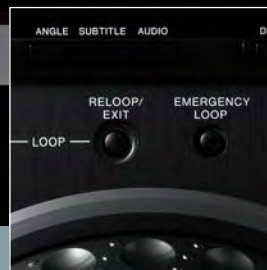
the play button is pushed.

### Fader Start

By connecting the DVJ-X1 to a Pioneer DJ Mixer via the control connector, it's possible to quick start or back cue using the mixer's fader or cross fader.

### Auto Cue

Auto Cue automatically cues the selected track to the first part of the audio at the beginning of a track, putting the machine in standby ready to play instantly the play button is pushed.



### Real Time Seamless Loop

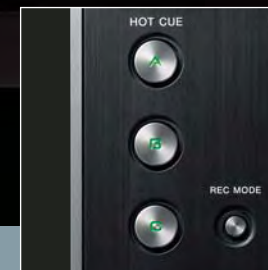
Repeatedly plays images and sound without interrupting the chosen phrase. During play the DVJ-X1 can correct the out point of the loop with just one touch.

### Emergency Loop

Pressing the emergency loop button automatically sets a 4-beat loop from that moment.

### Reloop

By pressing the Reloop button after a



loop has been cancelled, it's possible to return to the designated loop for continued loop play.

### Hot Cue

Hot cue buttons (A / B / C) can be used to instantly replay images and sound from previously recorded cue and loop points.

### Reverse Play

Instantly reverse images and sound by changing the direction switch to the reverse or forward positions.

\* 100% for CD, between +70% and -100% for DVD.

# DVJ-X1: Functions & Features



## On-Jog Display

The On-Jog display shows the status of the disc, the cue point position, the sound/image memory status, Jog touch detection, Vinyl mode and more.

## Playing Address

A bar graph representation displays the current playback position relative to the length of the track. The bar graph flashes just before the track finishes, giving the DJ time to prepare the next mix.



## Wave Display

Allows DVJ's to read the DVD visually (just like the "groove contrasts" on a vinyl record) and to find cue / break points quickly and easily.

## Digital Output

Has a digital output terminal switchable between Normal and DJ modes. Digital output\* is possible even during scratching or variable speed operation.

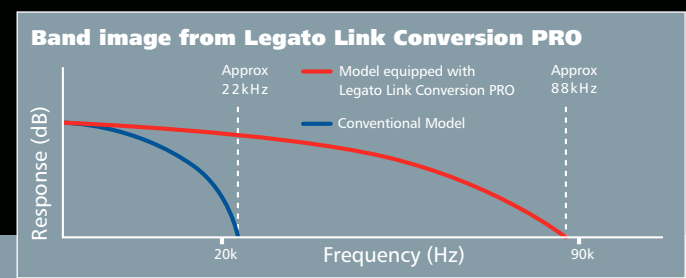
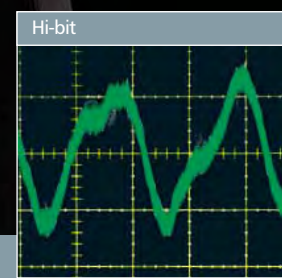
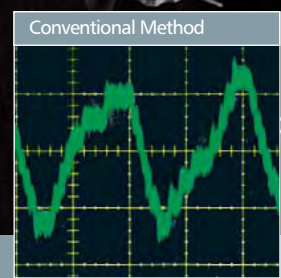
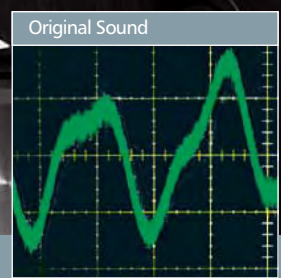
\* DVD outputs digital sound only in Normal mode.

## Hi-bit

Converting the sound data bit length from 16 or 20 bits to 24 bits provides smooth and subtle sound from small signals.

## Video DAC

The video DAC (Digital Analogue Converter) converts digital image signals of 8bit/13.5MHz on DVD into analogue signals for playback. Re-quantumising expands the dynamic range while preventing loss of information and minimizes



unnecessary noise to achieve faithful and high quality images.

**Durability – for professional use**

The DVJ-X1 has superior durability thanks to the use of proven components first tested in the Pioneer CDJ series. These parts can reliably withstand extreme professional use.

**Skip Prevention Design**

To prevent skipping and resist

vibration, the DVJ-X1 uses a jog-proof memory, plus the same floating mechanism as Pioneer's Carrozzeria car audio components.

**Capable of Playing Various Discs**

It's possible to play DVD-R/DVD-RW discs (recorded in video format) and CD-R/CD-RW discs (recorded in music CD format). When using music CDs, you can play as with the CDJ-1000MK2.

**Legato Link Conversion**

A digital filter performs up sampling (DVD: 48kHz - 192 kHz, CD: 44.1kHz - 176.4kHz) to reproduce sound information lost with the normal DVD and CD formats. This broadband play contributes to rich and natural sound.

**Preview Monitor Output**

The DVJ can have a preview display of the track, time and images, plus other information, on a monitor screen. If using a DVD, thumbnails

of the cue points, loop points, hot cue points and other images can be displayed. The preview monitor function lets the DVJ perform without displaying operating information on the main screen in the club.

**Data Memory**

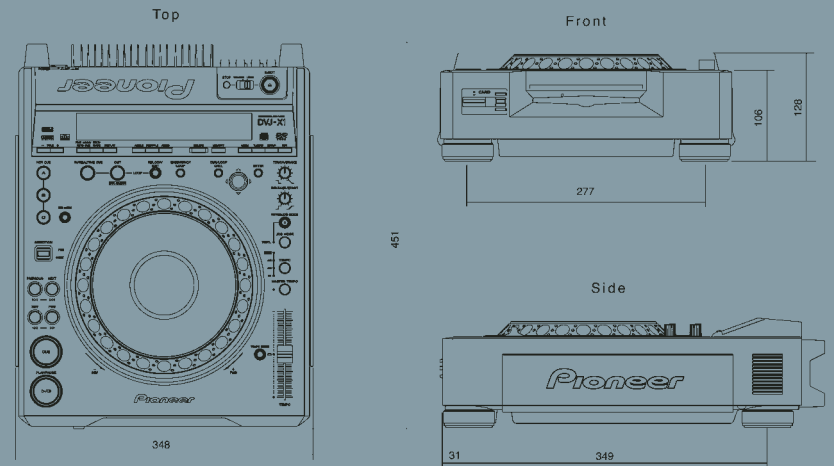
It's possible to save cue points, loop points, hot cues and wave information on the 32MB SD Memory Card supplied with the DVJ-X1.

360 cue points / loop points can be recorded on this card; the user can recall these when the same disc is reloaded.

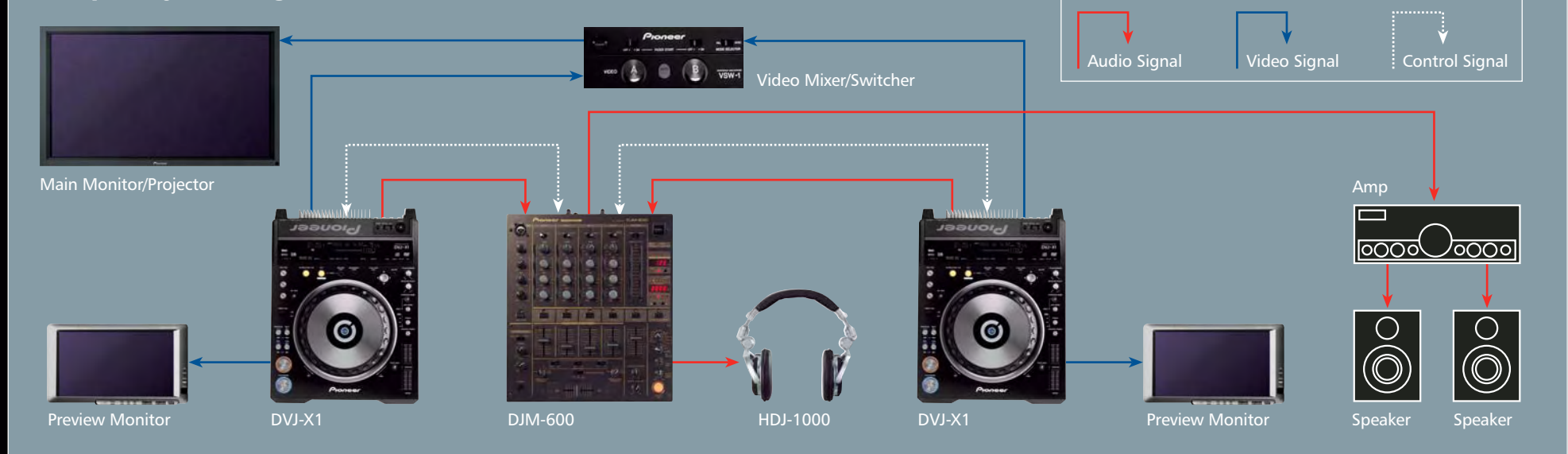
By upgrading to a larger memory card, more call points can be stored.



# DVJ-X1: Specifications



### Example of System Configuration with the DVJ-X1



### DVJ-X1 General Specifications

Compatible Media .....	DVD Video, DVD-R (Video Mode), .....DVD-RW (Video Mode), Music CD, CD-R, CD-RW
Power .....	AC220-240V (50/60Hz)
Power Consumption .....	42W
External Dimensions (W x H x D) .....	348 x 128 x 451mm
Weight .....	7.3kg
Master Image Output .....	RGB Component (BNC Connectors), S-Video (4 Pin DIN Connector), .....2 x Composite (RCA Connector, BNC Connector)
Preview Image Output .....	2 x Preview (RCA Connector, S-Video 4 Pin DIN Connector)
Digital Output .....	1 Coaxial Connector (RCA Connector)
Sound Output .....	1 Analogue 2-Channel (RCA Connector) L+R
Other Connectors .....	Control Connector (3.5mm Diameter Mini-jack), .....Synchronous Input Connector (BNC Connector)
Image Horizontal Resolution .....	540 lines
Audio S/N .....	115dB or more (JEITA); Total Harmonic Distortion: 0.006% (JEITA)
Frequency Response .....	CD: 4Hz to 20kHz, DVD (96Hz): 4Hz to 44kHz

Specifications and dimensions subject to change without notice.



### VSW-1 Professional Video Switcher

The VSW-1 can switch between the video outputs of two DVJ-X1's without creating vertical roll of the images. This function can be operated either **manually** or **automatically** by connecting to any of the Pioneer DJM series of Audio Mixers, making use of the Fader Start facility.

Neither Pioneer nor its dealers are responsible for the use people make of the DVJ-X1. However, we advise users to ensure they have all relevant licenses and consents in place (whether for copyright / public performance, performers rights, moral rights or otherwise) to allow the lawful playing of DVDs in public using the DVJ-X1. This is likely to include licenses from organisations administering performance rights in audio or video recordings or consents from any other relevant rights holders.

To register your interest and further updates on the DVJ-X1 and future associated Pro DJ products, log onto [www.djsounds.com](http://www.djsounds.com) and click on [dvj-info@mmd.pioneer.be](mailto:dvj-info@mmd.pioneer.be)



## DVJ-X1: Other Applications

### The DVJ-X1 is not just for DVJs...

Many other professionals in audio/video production industries can benefit from the fast, intuitive way the DVJ-X1 manipulates DVD Video.

In post-production environments professional video editors can use the DVJ-X1's instinctive real time features to create stunning sequences quicker and simpler than ever before.

By **manipulating** video footage through the DVJ-X1, real time recordings\* can be made direct to disc or hard drive. And because the DVJ-X1 also outputs a synchronized audio file there is no need to perform separate and time consuming audio edits.

It has always been arduous work to manipulate video footage. Tasks such as repeatedly changing direction, adding numerous different clips, changing speed, creating loops and



other labour intensive editing tasks can now be performed with a live, vibrant and personal connection that can make any editing project a **creative masterpiece**.

As a multi-media tool the DVJ-X1 has few limits. By linking to a PC, content rich elements can be produced for inclusion in DVDs, CD-ROMs and streamable footage for the Internet.

When the project needs a fluent look,

the DVJ-X1 is an easy to control deck with pre-programmable loops and cue points that can be called upon with the simple push of a button.

In theatres and playhouses the portable DVJ-X1 is valuable for providing **advanced** stage effects. Easy integration into lighting and sound control rooms allows technicians to cue and replay previously recorded footage directly into their live productions.

Quite simply, the DVJ-X1 provides a unique and intuitive control of DVD Video for anyone charged with manipulating such content.

\*DVD Writer is needed for this application.



### Platine Professionnelle DVD vidéo & CD

DVJ-X1 est la première platine DVD-vidéo dédiée aux professionnels de la nuit. DVJ-X1 combine les capacités du DVD-vidéo avec le meilleur du savoir-faire Pioneer. DVJ-X1 reprend l'ergonomie de la platine CDJ-1000MK2 pour une prise en main facilitée. Elle permet ainsi aux D(V)Js de synchroniser parfaitement l'image et le son pour des performances « live » inédites.

<b>Caractéristiques</b>	<b>DVJ-X1</b>
	Platine DVD vidéo et CD audio
<b>Contrôle de performance</b>	<b>DVJ-X1</b>
Hot Cue (sampler)	Oui
Démarrage rapide	Oui
Retour automatique	Oui
Boucle continue en temps réel	Oui
Réglage Loop	Out Adjust
Reloop	Oui
<b>Mémoire</b>	<b>DVJ-X1</b>
Carte mémoire SD	Oui
Données Wave	Oui
Mémoire point de repère/boucle	Oui
Antichoc	Oui
<b>Contrôle CD</b>	<b>DVJ-X1</b>
Diamètre du Jog Dial	206,0 mm
Type de Jog Dial	Touch sensitive
Modes Jog	Mode CD et Vinyl (une première pour le DVD vidéo)
Pitch Bend	Oui
Scratch Play / Cue	Oui
Démarrage rapide	Après recherche de pistes Après enregistrement Hot Cue Après lecture du Hot Cue
Démarrage au Fader/Démarrage au point de repère	Oui
Enchaînement automatique	Oui
Ajustement de la vitesse	Oui

<b>Tempo</b>	<b>DVJ-X1</b>
Master Tempo	Oui
Contrôle du Tempo	0,02% pour +/-6%, 0,05% pour +/-10% & 16%
Variation du Tempo (CD)	+/-6%, +/-10%, +/-16%, +/-100%
Variation du tempo (DVD)	+/-6%, +/-10%, +/-16%, +70% -100%
Compteur BPM	Oui
Chargement motorisé Slot-In	Oui
<b>Fonctions points de repère</b>	<b>DVJ-X1</b>
Cue Auto	Oui
Cue Manuel	Oui
Point de repère en temps réel	Oui
Sampler de points de repère	Oui
<b>Ecran d'affichage</b>	<b>DVJ-X1</b>
Ecran d'affichage	sur le jog indique le point Cue en cours et le sens de lecture (avant arrière)
Affichage Wave	Oui
Afficheur sur le Jog	Oui
Playing Address	Oui
<b>Généralités</b>	<b>DVJ-X1</b>
Conversion Legato Link	Oui
Anti-vibrations	Oui
Sortie analogique	1 stereo RCA
Sortie audio numérique	Oui
Type de disques	12cm DVD / CD
Format du disque	DVD, DVD-R, DVD-RW CD, CD-R, CD-RW
Accessoires inclus	Carte mémoire SD 32 Mo , câble électrique, manuel d'utilisation, câble audio RCA, câble vidéo RCA, tige d'éjection forcée
<b>Sorties video principales</b>	<b>DVJ-X1</b>
Sortie Composite (2)	<ul style="list-style-type: none"> <li>● Niveau de sortie: 1 Vp-p (75 Ohm)</li> <li>● Connecteur: RCA (1), BNC (1)</li> </ul>
Sortie S Video	<ul style="list-style-type: none"> <li>● Niveau de sortie : 1 Vp-p (75 Ohm)</li> <li>● Niveau de sortie C: 286m Vp-p (75 Ohm)</li> <li>● Connecteur type S (4 pin DIN)</li> </ul>
Sortie composante	<ul style="list-style-type: none"> <li>● Niveau de sortie Y: 1 VP-p (75 Ohm)</li> <li>● CB/PB, CR/PR: 0.7 Vp-p (75 Ohm)</li> <li>● Niveau de sortie du connecteur: BNC Type</li> </ul>
<b>Preview Video Output</b>	<b>DVJ-X1</b>
Sortie Composite	<ul style="list-style-type: none"> <li>● Niveau de sortie: 1 Vp-p (75 Ohm)</li> <li>● Connecteur: RCA</li> </ul>
Sortie S Video	<ul style="list-style-type: none"> <li>● Niveau de sortie Y: 1 Vp-p (75 Ohm)</li> <li>● Niveau de sortie C: 286m Vp-p (75 Ohm)</li> <li>● Connecteur type S (4 pin DIN)</li> </ul>
<b>Spécifications</b>	<b>DVJ-X1</b>
Réponse en fréquence (CD)	4 Hz ~ 20 kHz
Réponse en fréquence (DVD [96 kHz])	4 Hz ~ 44 kHz
Rapport signal/bruit	115 dB (EIAJ)
Distorsion	0,006% (EIAJ)
Niveau de sortie	2.0 V rms (1kHz, 0 dB)
Consommation	47 Watt
Alimentation	220 - 240 V, 50/60 Hz
Dimensions (L x H x P)	348 x 128 x 451 mm

**DVJ-X1 est la première platine DVD-vidéo dédiée aux professionnels de la nuit.**

DVJ-X1 combine les capacités du DVD-vidéo avec le meilleur du savoir-faire Pioneer DVJ-X1 reprend l'ergonomie de la platine CDJ-1000MK2 pour une prise en main facilitée. Elle permet ainsi aux D(V)Js de synchroniser parfaitement l'image et le son pour des performances « live » inédites.

### **Formats de disques utilisables**

- CD Audio, CD-R, CD-RW
- DVD Vidéo, DVD-R & DVD-RW (en Vidéo Mode)

### **Interface utilisateur**

- Plateau sensitif mode CD ou Vinyl (une première pour le DVD-vidéo)
- Pitch bending (une première)
- Recherche précise des images 75 frames par seconde
- Scratch synchronisé de l'audio et de la vidéo (une première)
- Mode "Hyper Jog Recherche avec le Jog accélérée par 2 (Nouvelle Fonction)

### **Contrôle**

- Contrôle du Tempo
- Jusqu'à +/- 100% pour les CD
- 100% à +70% pour les DVD (une première)
- Niveau minimum du réglage : 0,02% (une première)
- Master Tempo contrôle la vitesse sans changement de la hauteur tonale
- Démarrage au fader

### **Performance**

- Boucle en temps réel réglage du point de sortie uniquement (une première)
- Boucle de secours Automatique sur 4 temps
- Lecture arrière son et image sont lus simultanément (une première)
- Hot Cue & Boucle (une première)

### **Afficheurs**

- Principal regroupe toutes les indications nécessaires au pilotage du DVD
- Sur le Jog indique le point Cue en cours et la position de lecture
- Wave - pour une représentation visuelle de la piste en cours de lecture
- Sortie de prévisualisation (écran non fourni)
- Permet d'afficher le numéro de la piste, le temps et les frames,
- les BPM, les vignettes des points Cue, des boucles et des Hot Cue

### **Mémorisation (sur carte SD)**

- Données Wave (CD-Audio)



## CONFIGURATION TYPE D'UNE INSTALLATION VIDEO AVEC DVJ-X1

