djay

djay OSC Sending

Overview

djay can send out the state of the app via OSC over UDP. There is no configuration for what gets sent, djay puts out all available information. The user is advised to filter the data at the receiving end.

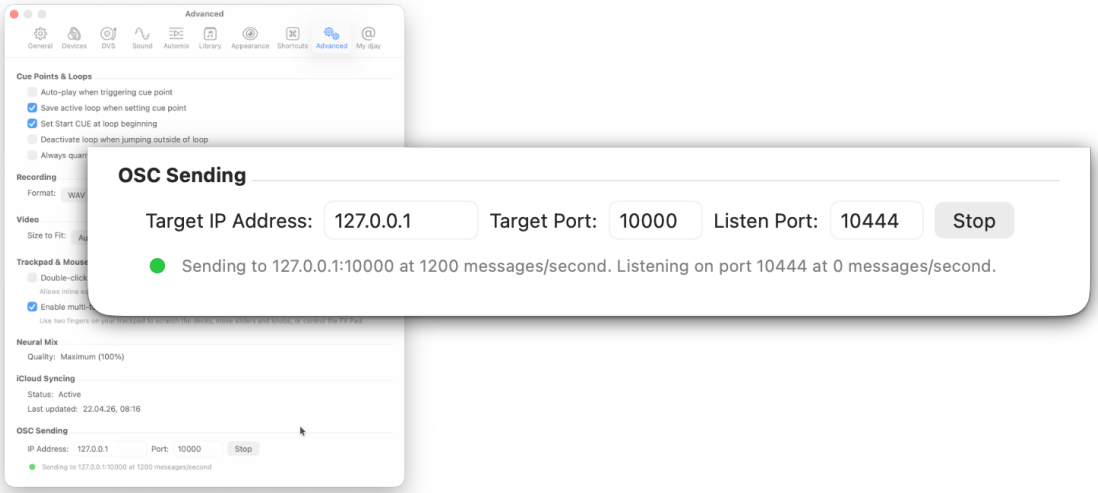
Rarely changing parameters such as playback, loop state or stem levels are sent only on change. Playback position and level meters are updated continuously at 60Hz.

When closing djay while OSC is running, it will automatically start on the next launch.

This document is version 4 (11.5.2026) and applies to djay builds 66135 and later

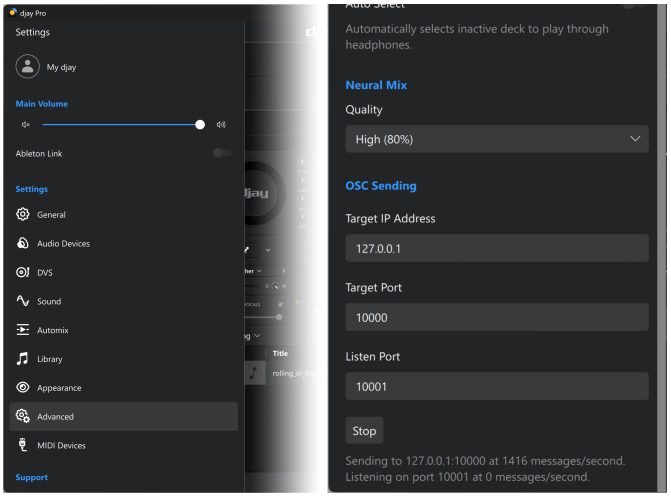
macOS

To configure OSC, go to djay Pro > Settings > Advanced. At the bottom of the panel, you can enter the IP address and port of your desired target, the port djay should listen on for incoming OSC and start sending.



Windows

To configure OSC, press the menu icon at the top left of the window, go to Advanced and scroll all the way to the bottom. There you can enter the IP address and port of your desired target, the port djay should listen on for incoming OSC and start sending.



djay

Outbound Messages (djay > Client)

All OSC addresses are prefixed with `/djay`

`/djay/turntable1` / `2` / `3` / `4`
Information about the turntables, the loaded songs, playback, stems etc.

`/djay/mixer`
Information about the mixer (faders, meters)

Mixer

`/djay/mixer/crossfader`
position of the crossfader. 0 = left, 0.5 = middle, 1 = right

`/djay/mixer/turntable1/lineFader`
position of the line fader (0 to 1)

`/djay/mixer/turntable1/externalLineFader`
position of the line fader of any USB attached external mixer that reports fader positions back to djay via MIDI (0 to 1)

`/djay/mixer/turntable1/eq/low` / `mid` / `high`
position of the EQ knobs (-1 to 1)

`/djay/mixer/turntable1/meter`
level meter. This is before any output limiters, including all processing up until but not including the fader. Also includes the output headroom setting (in dB, bottoms out at -300, “red” starts at 0, goes up to about 24 or maybe more if you turn absolutely everything to maximum)

Song

`/djay/turntable1/song/loaded`
whether a song is loaded on this deck (1 or 0)

`/djay/turntable1/song/duration`
duration of the song in seconds

`/djay/turntable1/song/title` / `artist` / `album` / `genre`
song metadata (ASCII strings, special characters as \123 escape sequences)

`/djay/turntable1/song/artworkAvailable`
whether an artwork image is available and can be requested (see inbound messages for how to request artwork) (0 or 1)

`/djay/turntable1/song/key`
musical key of the song. 0 = C Major, 1 = A minor, 2 = Db Major, 3 = Bb Minor, 4 = D Major...

`/djay/turntable1/song/bpm`
base-BPM of the song. This is a single value shown for the song in the media library indicating the dominant BPM of the song. For songs with fluctuating tempo this is a best-effort value.

Playback

`/djay/turntable1/playback/playing`
whether the deck is playing or not. (1 or 0)

`/djay/turntable1/playback/bpm`
current BPM. This reflects changes made to the tempo by the DJ or due to fluctuations in the song.

`/djay/turntable1/song/key`
musical key including pitch shifts. For format see `song/key`

`/djay/turntable1/playback/time`
current position in the song in seconds

`/djay/turntable1/playback/bar`
current bar position (integer, counting from 1, matches the numbers in the djay waveform)

`/djay/turntable1/playback/beat`
current beat inside the bar (integer number, 1 to 4)

`/djay/turntable1/playback/phase`
position in the current beat (float, 0.0 to 1.0)

`/djay/turntable1/playback/barPhase`
position in the current bar (float, 0.0 to 4.0)

Loop

`/djay/turntable1/loop/active`
whether a loop is active (1 or 0)

`/djay/turntable1/loop/beats`
duration of the loop tool in beats. This is equal to the loop length while a loop is running, otherwise it's the selection the DJ makes before activating a loop.

`/djay/turntable1/loop/inTime` / `outTime`
position of the loop start/end in seconds

FX

djay has three FX units, these are represented as
`/djay/turntable1/fx/1` / `2` / `3`
Depending on the selected type of FX the parameter is either a continuous value or a beat division. You can see this when changing the FX inside djay: a reverb just has a slider, a delay shows a number of beats.

`/djay/turntable1/fx/1/type`
name of the FX

`/djay/turntable1/fx/1/active`
whether the FX is engaged

`/djay/turntable1/fx/1/dryWet`
dry/wet mix (from 0.0 to 1.0)

`/djay/turntable1/fx/1/parameterIsBeats`
whether the FX parameter is in beats (1 or 0).

`/djay/turntable1/fx/1/parameterBeats`
if parameterIsBeats, this is the parameter of the FX in beats, otherwise disregard this

`/djay/turntable1/fx/1/parameterContinuous`
if not parameterIsBeats, the parameter of the FX (0.0 to 1.0)

djay

NeuralMix™

djay has four stems on each deck, these are represented as `/djay/turntable1/neuralmix/drums` / `bass` / `harmonic` / `vocals`.

`/djay/turntable1/neuralmix/drums/audibleVolume`
the gain applied to the stem, considering mute/solo/level/EQs and whatever other controls influence stem volume (there are quite a lot in djay, including stem crossfaders and crossfader FX) (0.0 to 2.0)

`/djay/turntable1/neuralmix/drums/level`
position of the stem volume slider (0 to 1)

`/djay/turntable1/neuralmix/drums/mute`
whether this stem is muted (1 or 0) This does not include solo operations

`/djay/turntable1/neuralmix/drums/solo`
whether this stem is soloed (1 or 0)

`/djay/turntable1/neuralmix/eq/low` / `mid` / `high`
position of the neural mix EQ knobs (0.0 to 2.0)

djay

Inbound Messages (Client > djay)

All OSC addresses are prefixed with `/djay/request`

Dump All

`/djay/request/dumpAll` causes djay to re-send to entire OSC state. Arguments are ignored. Please note that requests occurring more frequently than once per second will be ignored to avoid excessive bandwidth use.

Artwork

Image data is too large to be sent over OSC, so album artwork needs to be requested over OSC and will then be sent out via HTTP.

`/djay/request/turntable1/artwork http://localhost:8080` will make djay send the album artwork as JPEG to the HTTP server at the given URL as a POST.

djay

Changelog

Version	Changes
1	Initial Version
2	Simplify Prefix to `/djay` Rename `/stems/…` to `/neuralmix/…` Add `/neuralmix/eq/…` Add `/mixer/turntable/eq…`
3	Add inbound requests to djay (dump all. artwork) Add `/turntable/song/artworkAvailable`
4	Add setup info for windows version Add back accidentally deleted playback section Add missing prefixes in key paths Reorganise BPM and Key (overall BPM/key in song, dynamic ones in playback) Add external mixer volume fader Document dumpAll rate limit Fix EQ range info