

What DjMirror Pulse Does

Feature Tour

DjMirror Pulse turns the music you play into live visuals and lighting. It listens to your audio, detects tempo, key, energy and musical moments, and uses them to drive video layers, shaders, audio-reactive visualizers and DMX fixtures — and it can be controlled from a...

DjMirror Pulse User Manual Series

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This guide is a map of the whole product. Each section lists what a feature does and links to the hands-on guide that covers it in depth.

Chapter 1: How It Fits Together

Stage	What happens	Where it is configured
Listen	Audio input is analyzed for BPM, key, energy, structure and silence; optional beat sources (Ableton Link, timecode)	Audio Setup & Beat Sync
React	Audio rules and visualizers turn musical moments into effects on layers and lights	Layers, Shaders & FX, Visualizers
Show	Layers, styles and artist cards go to the screen; DMX drives the lights; NDI/Spout feed other software	DMX Rig , NDI & Spout
Control	Keyboard, MIDI/HID, OSC, phone, schedule, timecode, API and AI assistants steer the show	Section 4 below

Chapter 2: Where To Start

You want to...	Read
Get a first picture on screen	Quick Start
Check your computer is powerful enough	System Requirements
Activate a trial or license	License & Activation
Find a setting you cannot locate	Settings Tour
Prepare for a gig	Audio Setup & Beat Sync , then the pre-show checklists in each guide
Fix a problem	Troubleshooting

The full list of guides is in the [index](#).

Chapter 3: Audio Analysis

Capability	What it does	Guide
Real-time BPM detection	Beat matching and sync across genres	Audio Setup
Key recognition	Harmonic-mix friendly key data with confidence	Audio Setup
Structure detection	Intro, chorus, build-up, bridge, verse, outro	Layers & FX
Audio Rules engine	Parameters that trigger visual effects from musical moments	Layers & FX
Silence detection	State machine (none → detecting → confirmed → ongoing) feeding DMX + FX	Audio Setup, DMX Rig
Energy + special events	Drops, peaks, builds, breaks as automation sources	Layers & FX

Chapter 4: Visuals And DMX Lighting

Capability	What it does	Guide
5 visualizers	Digital, Particle, Analog (8 waveform patterns), Spectrum, XY/Lissajous (10 patterns) — layerable	Visualizers
GPU shaders + layers	Per-layer grading, particles, marquee, vinyl, masks	Layers & FX
Style presets	Complete saved looks (<code>Visuals/Styles/*.json</code>), cyclable live	Quick Start
USB-DMX output	Enttec Open/Pro/Mk2, DMXKing, Eurolite, FreeStyler/FTDI; several COM ports at once, 512-channel local universes (two on dual-universe hardware)	DMX Rig
Movement engine	Pan/Tilt/Z patterns, keyframes, Gobo/Halo automation	DMX Rig
Scenes + silence	Color modes (manual/auto/mixed), fades, audio-silence behavior, blackout	DMX Rig
Macros	Strobe, fog/haze bursts, laser blackout with restore	DMX Rig

Chapter 5: Content Management

Capability	What it does	Guide
Artist system	Profiles, 2D/3D logos, artist playlists, on-screen cards	Content Management, Quick Start
Image / video / avatar playlists	Plain <code>.txt</code> lists in <code>Documents/Visuals/</code> steppable live	Content Management, Quick Start
Stock + AI search	Pixabay/Pexels images+video, Gemini art — downloads land in playlists	Media Search & AI
Screen recordings + snapshots	Capture the main application window to MP4 or PNG	Recording & Snapshots

Chapter 6: Live Control And Integration

Capability	What it does	Guide
Keyboard	Application-wide shortcuts for common live actions	Keyboard
Touch control	Touch-oriented view of the main panels, editors and indicators	Touch Control
Settings	Find display, overlay, startup, privacy and show-control options	Settings Tour
MIDI / HID	Supported MIDI/HID controllers, mapping, modifiers and visual feedback	MIDI/HID
OSC	TouchOSC/DAWs/Resolume over UDP, emulator included	OSC
Mobile app	QR pairing, pocket control of styles/layers/DMX	Mobile
Scheduler + Timecode	Clock-time rows, MTC/LTC position cues	Schedule , Timecode
NDI / Spout	OBS/vMix/Resolume output, single + JSON multi-layouts	NDI & Spout
Multi-screen	One server mirrors to any number of clients	Client-Server
HTTP / WebSocket API	Integrator control and automation	HTTP & WebSocket API
MCP server	Connect a compatible AI client for read and show-control actions	MCP Server for Users

For first checks when something does not work, see the [Troubleshooting Guide](#). To preserve a setup or move it to another computer, see [Backup & Restore](#).

Chapter 7: Tier-Gated Professional Features

Standard covers visuals, DMX, controllers and the API. Professional adds Ableton Link (+ beat pulse), Timecode, the MCP server and single-output Spout2/NDI. Enterprise adds multi-output Spout2/NDI with the layout editor. Details and activation: [License & Activation](#); see the [MCP guide](#) for its license requirement. Hardware sizing for each tier: [System Requirements](#).