RoboDJ - A.I. Automation Software

Version 2 | AI Radio Voice Tracking Made Simple

RoboDJ V2 is a cutting-edge radio automation software that intelligently generates voice tracks using AI, seamlessly integrating with popular radio software like RadioDJ, SAM Broadcaster, Station Playlist, mAirList, Radio Boss and PlayIt Live. For more v2 fun, see the companion guide.

🚀 Key Features

✨ AI-Powered Voice Generation

- **ElevenLabs & Google Gemini Integration**: Premium quality AI voices
- **OpenAI & OpenRouter Support**: Advanced script generation
- **Custom Voice Training**: Train your own AI voices (11 Labs)
- **Multi-language Support**: Generate content in 30+ languages

🎛️ Radio Software Integration

- **RadioDJ**: Direct MySQL database integration
- **SAM Broadcaster**: Real-time playlist monitoring
- **Station Playlist**: HTTP API integration
- **mAirList**: Advanced playout integration
- **Radio Boss**: Comprehensive automation support
- **Play It Live**: API playlist integration (requires API subscription from PIL)
- **Playlist Files Integration:** NextKast (pls), Raduga (alb) & StationPlaylist (m3u)

🔊 Professional Audio Processing

- **Silence Removal**: Intelligent silence detection and removal
- **Multiple Processing Presets**: Broadcast Normal, Smooth, Warmth, AI Enhancement
- **Custom Filters**: Advanced FFMPEG filter support
- **High-Quality Output**: 320kbps MP3 or WAV

🤖 Intelligent Automation

- **Smart Scheduling**: Automated voice track generation
- **Context Awareness**: Weather, news, and time-based content
- **Batch Processing**: Generate multiple tracks simultaneously
- **Template System**: Customizable content templates

📋 System Requirements

Minimum Requirements

- **OS**: Windows 8.1 or higher (64-bit required)
- **RAM**: 6 GB
- **CPU**: Intel i3/AMD Ryzen 3 or equivalent (dual-core minimum)
- **Storage**: 1 GB free space (SSD recommended)
- **Internet**: Stable broadband (10+ Mbps) for AI services
- **Audio**: Windows-compatible audio device

Recommended Specifications

- **OS**: Windows 10/11 (64-bit)
- **RAM**: 12 GB or more
- **CPU**: Intel i5/AMD Ryzen 5 or better (quad-core)
- **Storage**: 2 GB free space (SSD recommended)
- **Internet**: Stable broadband (10+ Mbps) for AI services
- **Audio**: Professional audio interface with ASIO drivers

🛠️ Installation

Option 1: Easy Installer (Recommended)

1. **Download** `RoboDJ_Setup.exe` from the official website
2. **Run** the installer as Administrator (right-click → "Run as administrator")
3. **Follow** the installation wizard
4. **Launch** RoboDJ from Desktop shortcut or Start Menu

Option 2: Standalone Executable

1. **Download** the standalone ZIP package
2. **Extract** to your preferred location (e.g., `C:\RoboDJ\`)
3. **Run** `RoboDJ.exe` directly

🆓 Free Trial

- Click **"Start 14-Day Free Trial"** to begin immediately
- Full feature access for 14 days
- Perfect for testing compatibility with your radio software
- One trial per computer
- Trial status visible in Settings → Application Settings

🟨 Full License

- Enter your **email address** and **activation code**
- Instant activation with internet connection
- License management available in Settings

✅ **For detailed guidance, watch the tutorial videos at**
www.RoboRadioDJ.com/support

⚙️ Configuration

Setup Steps

Before using RoboDJ, you must complete your personal settings:

1. 🔌 **Playout System Configuration**
   - Choose your radio software
   - Database connection settings (for SQL-based systems)
   - API configuration (for HTTP-based systems)
   - Connection testing
2. 🤖 **AI Engine Setup**
   - OpenAI API key configuration
   - OpenRouter API key configuration
   - ElevenLabs and/or Gemini API key setup
   - Voice selection and settings input
3. 📢 **Audio Processing**
   - Audio quality settings
   - Processing presets selection
   - Silence removal settings
4. 📁 **File Management**
   - Voice tracks output folders
   - Select a different folder for each prompt type in Prompt Library

🎯 Quick Start Guide

1. Complete Initial Setup

- Complete all settings info. Save settings!
- Test all connections (database, APIs, audio processing)
- Verify output folder permissions

2. Generate Your First Voice Track

- Go to **Prompt Library**
- Select a **Prompt** and make sure **Trigger and Voice Settings** are correct. **VT Marker Name** must match track name in playlist. Save a **Custom Filename & Output Folder**.
- Ensure Prompt is **Active**

3. Set Up Automation

- Go to **Schedules** page
- Add a **New Schedule** and select desired **Prompt** or enable **Smart Scheduler**
- Set your frequency and time interval (e.g., every 60 minutes).
- Select **Schedule Enabled.**
- Enable **Auto-Approve** for RoboDJ to automatically generate script and voice track.

4. Monitor and Adjust

- Check the **Dashboard** for generation status
- After **Schedule** runs, a script will appear in **Script/VO Files** Section

5. Script & Voice Generation

- Navigate to **Script & VO Generation** page
- Select a script. Edit or approve it.
- Click **Generate Voice Track**, if **Auto-Approve** wasn't selected.
- Wait for processing (usually 15-20 seconds)
- Play the result to verify quality. If unhappy, click **Generate Voice Track** again.
- When happy with voice file, highlight it and click **Save Final Audio**.

🔧 Radio Software Integration

RadioDJ Setup

```
Host: 127.0.0.1 (for localhost) or URL

Port: 3306 [or your active port]

Database: [radiodj database name]

Username: [your_username]

Password: [your_password]
```

SAM Broadcaster Setup

```
-- Default connection settings

Host: 127.0.0.1 (for localhost) or URL

Port: 3306 [or your active port]

Database: [samdb database name]

Username: [your_username]

Password: [your_password]
```

Station Playlist Setup

```
IP Address: 127.0.0.1 (if running locally)

Port: [your port #]

Access Code: /?TrackInfo=this

Music Categories: Enter all custom category names for your music tracks only.
RoboDJ will use these to identify songs.
```

mAirList Setup

```
IP Address: 127.0.0.1

Port: [your port #]

Access Code: /playlist/0/content
```

Radio Boss Setup

```
IP Address: 127.0.0.1

Port: [your port #]

Access Code: /?pass=YOUR_PASSWORD&action=getplaylist2
```

Play It Live Setup

```
IP Address: 127.0.0.1 or URL (https://xxxxx.com)

Port: [your port #]

Access Code: /api/control/liveAssist/playoutLog/items

API: Your API Key

Track Groups: Enter all Track Groups category names for your music tracks only.
RoboDJ will use these to identify songs. Don't enter VT groups.

SSL: Auto or Skip
```

*Access Codes are pre-populated and shouldn't be changed unless you're having connection issues. These codes should return the current hour's playlist.
*Port Forwarding ISN'T required if RoboDJ and Playout Software are on same PC/Network.

📁 Playlist Parser (File-Based Systems)

Perfect for automation software that uses playlist files instead of databases!

If your radio software exports playlists as files (like Raduga's .alb format, NextKast's .pls or StationPlaylist's m3u), RoboDJ's Playlist Parser can read them directly and find your VT markers automatically.

How to Set It Up

1. **Enable "Playlist Parser" in RoboDJ's settings**. This overrides the Playout Systems connections.
2. **Choose Playlist Format** - NextKast (.pls), Raduga (.alb) or StationPlaylist (.m3u)
3. **Point to your playlist folder** - tell RoboDJ where your software saves playlist files
4. **Set your filename format** - usually something like **M**on1100.alb for Monday 11:00 AM
5. **Date-Based Subfolder** - if playlist files are in folder with date in name
6. **Fallback Keywords** - ignore for now. Future feature.
7. **Music Categories** - if your playlist metadata includes music categories, enter all applicable music categories.

Prompt Library

1. **Create Prompt with VT Marker** before testing. RoboDJ's looking to match on a VT Marker in your playlist. Make sure the VT Marker name in your playlist is an exact match for the one in your prompt.
2. **Track Position** tells RoboDJ to return song info before or after VT Marker.
3. **Skip Function** - skip non-musical tracks in order to only return song data. If there's a music bed or jingle between your VT Marker and song, enter 'skip1' or 'skip2' in Prompt Notes. This tells RoboDJ to skip 1 or 2 positions in relation to Track Position to fetch specific song data.
4. **Title Only Function** - *for StationPlaylist only*. If a track title isn't associated with a known category or lacks category data in playlist, enter 'title only' or 'title_only' in Prompt Notes to match on VT Marker Name.

Test Parse Playlist

1. Testing VT Marker & Song Detection - if you have valid VT Markers in your playlist the system will retrieve song data based on your prompt's rules
2. Confirm Accuracy of VT Markers and song info based on your actual playlist

What It Does

- Reads your playlist files automatically when it's time to generate content
- Finds your music and pulls artist/title info from filenames
- Spots your VT markers by matching the names you've set up
- Generates voice tracks that fit perfectly with your playlist flow

💡 Tip: Make sure your VT marker names in RoboDJ match exactly what you use in your playlists. The system is smart about finding them, but exact names work best!

🎵 Audio Processing

RoboDJ includes a built-in engine for professional audio processing:

- **Professional Presets**: Optimized for broadcast quality
- **Custom FFMPEG Filters**: Advanced users can create custom processing chains
- **Format Support**: MP3 and WAV

Processing Presets:

Broadcast Normal

```
compand=attacks=0.01:decays=0.2:points=-80/-80|-30/-15|-10/-7|0/-3,
loudnorm=I=-14:TP=-1.5:LRA=7,dynaudnorm=p=1.0
```

Broadcast Smooth

```
compand=attacks=0.02:decays=0.3:points=-70/-70|-30/-12|-10/-6|0/-3,
loudnorm=I=-14:TP=-1.5:LRA=7,dynaudnorm=p=0.8
```

AI Voice Enhancement

```
compand=attacks=0.02:decays=0.2:points=-60/-60|-30/-15|-10/-7|0/-3,
loudnorm=I=-13:TP=-2:LRA=9,dynaudnorm=p=0.9:m=100:s=12,
equalizer=f=5000:t=q:w=1.5:g=3,highpass=f=80
```

🔑 API Keys Setup

OpenAI Configuration

1. Visit OpenAI API Platform
2. Create an API key
3. OpenAI no longer provides free API access. You must purchase credits. $5-10 goes a long way, though. Go to Settings > Billing to prepay for credits.
4. Enter API in RoboDJ settings under **AI Engines → OpenAI**
5. Test connection

ElevenLabs Configuration

1. Sign up at ElevenLabs
2. Get your API key from profile settings
3. Enter in RoboDJ settings under **AI Engines → ElevenLabs**
4. Select your preferred language, voice & voice model settings. Model override available in prompts.

Gemini Configuration

1. Visit: https://console.cloud.google.com/
2. Sign in with your Google account
3. Google doesn't make it easy. Watch my Gemini API Video for step-by-step instructions.
4. After you create it, copy your API key to the API Key field.
5. Make sure you have credits on your account to use API and/or your account is set-up for billing.

OpenRouter (Alternative)

1. Register at OpenRouter
2. Generate API key
3. Purchase credits.
4. Configure in RoboDJ as OpenAI alternative

🚨 Troubleshooting

"FFMPEG not found" Error

```
Solution:

1. Reinstall RoboDJ using the official installer

2. Or manually download FFMPEG from https://ffmpeg.org/

3. Place ffmpeg.exe in RoboDJ installation folder

4. Update path in Settings → Audio Processing
```

Database Connection Failed

```
Solutions:

1. Verify radio software is running

2. Check database credentials

3. Ensure MySQL/database server is accessible

4. Test connection using database management tools
```

API Key Invalid

```
Solutions:

1. Verify API key is correctly copied (no extra spaces)

2. Check API key permissions and quotas. ElevenLabs requires API permissions.

3. Ensure internet connection is stable

4. Try deleting keys, re-entering API keys, saving and restarting
```

AI Connector Error: OpenAI Call Failed

```
Solutions:
1. Verify API key is correctly copied (no extra spaces)
2. Insufficient credit balance in OpenAI or OpenRouter. Add credits.
3. Try regenerating the API key
```

Script/Voice Track Generation Fails

```
Solutions:
1. Check all API keys are valid & sufficient balance/credits exist
2. Verify internet connection
3. Review log files for specific errors
4. Try generating with different voice/model
5. Try deleting keys, re-entering API keys, saving and restarting
6. Check Prompt settings. If using a VT Marker, does name match with playlist?
If writing script about song, make sure Prompt Notes field doesn't have any
manual prompt keywords.
```

💾 Import Prompts CSV File

Setup Steps

1.Create CSV file with the appropriate columns/headers:

Feature Name,Status,Prompt,Voice Profile,Custom Filename,Trigger,Position,Special,Created

-Save as CSV format with UTF-8 encoding
-Ensure headers match exactly (case sensitive)

2.Import via RoboDJ

- Open RoboDJ → Prompt Library
- Click "Import from CSV" button
- Select your CSV file
- Review import results and warnings. You'll probably need to fine-tune prompts.

⚙️ Log File Configuration

RoboDJ includes comprehensive logging to help monitor operations and troubleshoot issues.

Log Files Location

- **Windows**: `C:\Users\(current user)\APPDATA\Roaming\RoboDJ\logs\` (if using default location)

Reset Configuration

If you need to reset RoboDJ settings:

1. Close RoboDJ completely
2. Delete: `\RoboDJ\config\settings.db`
3. Restart RoboDJ

📞 Support & Contact

- **Google Group**: https://groups.google.com/g/roboradiodj
- **Website**: https://www.roboradiodj.com
- **Video Tutorials**: https://www.roboradiodj.com/support

*Unless an additional support plan was purchased, limited email support is available after 30 days from purchase date of software.

*Unfortunately, no support is offered for the Free Trial plan. Please watch the helpful video tutorials for guidance.

Before Contacting Support

1. Check this README file
2. Review log files for error messages. Send log file to support, if need be. Log file location: C:>Users>(yourUser)>AppData>Roaming>RoboDJ
3. Try the troubleshooting steps above
4. Visit the support page to watch the tutorial videos
5. Visit the Google Group for support

📋 License & Legal

Software License
RoboDJ is proprietary software. See `LICENSE.txt` for complete terms.

Privacy
RoboDJ respects your privacy:

- No personal data collected without consent
- API keys stored locally and encrypted
- Network access only for AI services

Checking for Updates

RoboDJ will send verified users an email if there's an update and how to download it.