

WORLD RADIO

User Manual

Version 1.0.0 — March 2026
macOS (Apple Silicon)

Stream 50,000+ radio stations worldwide with vintage analog controls, real-time AI transcription and translation, an interactive world map, and 9 visual themes.

humandividendprotocol.com/worldradio.html

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1. Installation & First Launch

System Requirements

- macOS 12 (Monterey) or later
- Apple Silicon (M1, M2, M3, M4) Mac
- 200 MB disk space (app + station database)
- Internet connection for streaming (transcription works offline)

Installing WorldRadio

- Download the DMG from humandividendprotocol.com/worldradio.html
- Open the downloaded `WorldRadio-1.0.0-arm64.dmg` file
- Drag **WorldRadio** into your **Applications** folder
- Launch WorldRadio from Applications or Spotlight

Note: The app is code-signed and notarized by Apple. It will open without security warnings.

First Launch Tutorial

On first launch, WorldRadio presents a 6-step guided tutorial:

- **Welcome** — Overview of 50,000+ global stations
- **Database Download** — Downloads 23 MB station database (1-2 minutes) for fast offline browsing
- **Browse Methods** — Regions, genres, map, and search
- **Player Controls** — Volume, EQ dials, transport buttons
- **Transcription** — AI-powered speech-to-text and translation
- **Themes** — Choose from 9 visual themes

Note: You can skip the tutorial at any time. All settings persist across sessions.

2. Interface Overview

WorldRadio features a vintage radio cabinet aesthetic with modern functionality. The interface is divided into several sections:

Top Bar

- **Indicator LED** — Green when playing, off when idle
- **Station Display** — Shows station name, country, codec, bitrate, and genre tags
- **MAP Button** — Opens the interactive world map
- **Theme Selector** — Switch between 9 visual themes

Signal Display (VU Meter)

- **BARS mode** — Classic level bars (default)
- **WAVE mode** — Waveform oscilloscope display
- Click the mode label to toggle between BARS and WAVE
- Level indicator shows green (normal), yellow (warning), red (peak)

Rotary Dials

Four vintage-style rotary dials control audio:

Dial	Range	Default	Function
Volume	0 - 100%	70%	Master output level
Bass	-12 to +12 dB	0 dB	Low frequency boost/cut
Mid	-12 to +12 dB	0 dB	Mid frequency boost/cut
Treble	-12 to +12 dB	0 dB	High frequency boost/cut

Note: Drag up/down or scroll the mouse wheel on any dial to adjust. All dial positions are saved automatically.

Transport Controls

- **Play/Stop** — Large circular button to start or stop playback
- **REC** — Record the live stream (appears only during playback)
- **FAV** — Star icon to add/remove current station from favorites

Transcript Panel

Collapsible panel below the main player for AI transcription. Click the header to expand/collapse. See Section 8 for full details.

3. Playing Radio Stations

To play a radio station:

- Browse or search for a station (see Section 4)
- Click the **play button** next to any station in the list
- The station display updates with the station name, country, codec, and bitrate
- The indicator LED turns green and the VU meter activates
- Click the **stop button** (same button) to stop playback

You can also play stations by clicking markers on the world map (Section 5).

Note: If a stream fails to connect, try another station. Some streams may be temporarily offline or region-restricted.

4. Browsing & Searching

Search

- Type a station name, genre, or keyword in the search field
- Press **Enter** or click **SEARCH**
- Results show up to 200 stations, sorted by popularity

Quick Access Buttons

- **TOP STATIONS** — The 200 most popular stations worldwide
- **FAVORITES** — Your saved favorite stations (with count)
- **RECENT** — Last 30 stations you played

Browse by Region

Six continental regions, each listing countries sorted by station count:

- North America, South America, Europe, Asia, Africa, Oceania

Browse by Genre

20+ genre categories including:

Music, News, Sports, Talk, Classical, Jazz, Rock, Pop, Electronic, Hip Hop, Country, Latin, R&B, Reggae, Ambient, Folk, Religion, Tech, Science, Education

Genre Filters

When viewing a country's stations, filter tabs appear at the top:

ALL | **MUSIC** | **NEWS** | **TALK** | **SPORTS** | **CLASSICAL** | **JAZZ** | **ROCK** | **POP** | **ELECTRONIC**

Navigation

- **Breadcrumbs** — Show your location (e.g., HOME / Europe / France)
- **HOME** button — Return to the main screen
- **BACK** button — Go up one level

Station List Display

Each station row shows:

- Play/stop button and station favicon

- Station name, country, codec (MP3/AAC/OPUS), bitrate
- Genre tags (first 3)
- Popularity count and favorite star

5. Interactive World Map

Click the **MAP** button in the top bar to open the full-screen interactive world map.

- **Markers** — Each dot represents a station with geographic coordinates
- **Hover** — See station name, country, codec, bitrate, and genres in a tooltip
- **Click a marker** — Start playing that station immediately
- **Currently playing** — Shown as a larger glowing dot on the map
- **Status overlay** — Bottom-left shows the currently playing station
- **Pan & zoom** — Drag to pan, scroll to zoom, pinch on trackpad

The map displays the top 500 stations by popularity. Map colors automatically match your selected theme.

Note: The map uses OpenStreetMap Carto tiles and requires an internet connection.

6. Audio Controls & EQ

WorldRadio features a 3-band parametric equalizer powered by the Web Audio API.

Using the Dials

- **Mouse drag** — Click and drag up to increase, down to decrease
- **Scroll wheel** — Scroll up/down over a dial to adjust
- Each dial shows its current value (e.g., "70" for volume, "+3" for EQ)
- Changes take effect immediately on the audio output

EQ Frequency Bands

Band	Frequency	Type	Use Case
Bass	250 Hz	Low Shelf	Add warmth or reduce boominess
Mid	1,000 Hz	Peaking	Boost voice clarity or reduce muddiness
Treble	4,000 Hz	High Shelf	Add brightness or reduce harshness

Note: All EQ and volume settings persist across app sessions.

7. Recording

WorldRadio can record live radio streams to your computer.

How to Record

- Start playing a station
- The **REC** button appears next to the transport controls
- Click **REC** to start recording — a red dot and timer appear
- Click again to stop — the file is saved automatically

Recording Details

- Format: WebM audio
- Filename: `WorldRadio_[station]_[date_time].webm`
- Saved to your Downloads folder
- Recording stops automatically if playback is stopped

8. AI Transcription & Translation

WorldRadio includes offline AI-powered transcription using Whisper, supporting 90+ languages with real-time English translation.

Setting Up

- Expand the **TRANSCRIPT** panel by clicking its header
- Select a Whisper model from the dropdown:

Model	Size	Speed	Accuracy	Best For
Tiny	39 MB	Fastest	Basic	Quick testing, English content
Base	74 MB	Fast	Good	General use, clear audio
Small	244 MB	Moderate	Best	Non-English, noisy audio, accuracy

- Click **DOWNLOAD** next to your chosen model (one-time download)
- Models are stored locally and work completely offline

Using Transcription

- Start playing a radio station
- Click **START** in the transcript panel
- The app captures 5-second audio chunks and transcribes them
- Results appear in real-time with timestamps
- Click **STOP** to end transcription

Language Selection

Choose from the language dropdown:

- **Auto** (default) — Automatically detects the spoken language
- Or select a specific language: Arabic, Persian, Spanish, Russian, German, Italian, Portuguese, Hebrew, French, Chinese, Japanese, Korean, Hindi, Turkish, English

Translation

- Toggle **TRANSLATE** → **EN** to enable English translation
- Original text appears normally; translation appears below in a secondary color
- Translation is performed by the Whisper model locally — no internet needed

Saving Transcripts

Click the save menu to export transcripts in multiple formats:

- **Save as TXT** — Plain text with timestamps
- **Save as SRT** — Subtitle format with timing codes
- **Save as JSON** — Structured data with full metadata
- **Copy to Clipboard** — Copy all speech entries with timestamps

Transcripts are also automatically saved to the local database when transcription stops. Access saved transcripts from the transcript history.

Note: Transcription runs entirely on your Mac's CPU. No data is sent to any server. The Small model gives the best results for non-English audio.

9. Themes

WorldRadio includes 9 visual themes. Click the theme selector in the top-right corner to switch.

Theme	Colors	Aesthetic
Green	Neon green on dark	Classic CRT terminal
Amber	Warm gold on dark	Vintage amber monitor
Blue	Cyan/turquoise on dark	Cyberpunk display
White	Grayscale	Clean minimalist
C2 Blue	Cool blue accents	Modern command center
DEFCON	Yellow-orange alerts	Military warning console
Tactical	Aggressive red	Combat operations display
Modern Dark	Light gray accents	Contemporary dark mode
Field Manual	Tan/cream tones	Vintage field equipment

Themes apply to all UI elements: dials, displays, borders, VU meter, map markers, and station list. Your theme choice is saved automatically.

10. Favorites & Recent Stations

Favorites

- Click the **star icon** next to any station to add it to favorites
- Click the star again to remove it
- When a station is playing, use the **FAV** button in the transport controls
- Access all favorites from the home screen: **FAVORITES (N)**

Recent Stations

- The app automatically tracks your last 30 played stations
- Access from the home screen: **RECENT**
- Stations appear in order of most recently played

11. Data & Storage

File Locations

Data	Location
Station database	~/Library/Application Support/world-radio/radio_stations.db
Preferences	~/Library/Application Support/world-radio/preferences.json
Whisper AI models	~/Library/Application Support/world-radio/whisper-models/
Saved transcripts	Inside radio_stations.db (transcripts table)
Recordings	Downloads folder (WebM files)

Browser Storage

The following settings are stored in the app's internal browser storage and persist across sessions:

- Favorites, recent stations, selected theme
- Volume, bass, mid, treble positions
- Whisper model selection, language, and translate preference
- Transcript panel expanded/collapsed state

Station Database

- 23 MB SQLite database with 53,000+ stations
- Bundled with the app and copied to Application Support on first launch
- Click **REFRESH** on the home screen to update with the latest stations
- Full-text search powered by SQLite FTS5 for fast station lookup

12. Troubleshooting

Station won't play / "Stream failed"

The station may be offline or geo-restricted. Try another station. Some streams use codecs or protocols that may not be supported.

No sound

Check the Volume dial (should be above 0). Check your Mac's system volume and audio output device in System Settings > Sound.

Transcription shows "[no speech detected]"

The audio may be music or too quiet. Transcription works best with clear spoken content. Try a talk radio or news station.

Transcription is slow

The Small model (244 MB) takes longer than Tiny (39 MB). Each chunk is ~5 seconds and processes sequentially. The Tiny model is fastest.

App won't open (security warning)

WorldRadio is signed and notarized by Apple. If you see a security dialog, right-click the app > Open. This is only needed once.

Database download fails

Check your internet connection. The app downloads station data from Radio-Browser.info. If the service is temporarily unavailable, try again later.

Map doesn't load

The map requires an internet connection to load map tiles from OpenStreetMap/Mapbox. Check your network connection.

13. Keyboard & Mouse Reference

Action	Input
Search stations	Type in search field + Enter
Adjust dial	Click + drag up/down on dial
Fine adjust dial	Scroll wheel over dial
Pan map	Click + drag on map
Zoom map	Scroll wheel or pinch on trackpad
Play station from map	Click station marker
Toggle VU meter mode	Click BARS/WAVE label
Expand/collapse transcript	Click TRANSCRIPT header

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