

USER MANUAL

Pro Record Radio V47 is an uninterrupted recording software solution designed specifically for the **professional broadcast** sector and continuous broadcasting radio. This application, developed under the broadcast-style *DAW (Digital Audio Workstation)* philosophy, ensures critical reliability by recording audio 24 hours a day, 7 days a week, 365 days a year.

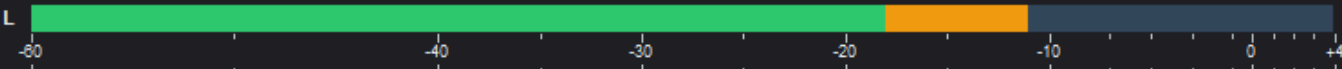
It incorporates advanced secure disk-writing algorithms, real-time metrics visualization via a calibrated VU meter, storage level monitoring, and a rigid security system using USB dongles to prevent unauthorized intervention.


Pro Record Radio

Security

AUDIO INPUT:

Device: MIX (GO:MIXER STUDIO)

L 

R 

RECORDING CONTROL:

REC 00:00:00.0 Status: Standby

SCHEDULE RECORDING:

Start (HH:MM:SS): 08:00:00 End (HH:MM:SS): 17:00:00

Days: Monday Tuesday Wednesday Thursday Friday Saturday Sunday All/None

OUTPUT CONFIGURATION:

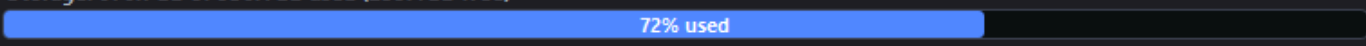
Folder: C:/Users/Roberto/Downloads **Browse...**

Template: rec_{date}_{time} **Edit Template**

Placeholders: {date} {time} {weekday} {device_name} {id}

Quality: WAV - 16 bit

Storage: 670.7GB of 930.1GB used (259.4GB free)

 72% used

Schedule Recording **View Schedule**

Pro Suite
RADIO

30/03/2026

20:04:35

Access Level: Administrator

Main Interface: Real-Time Input Monitoring

SYSTEM REQUIREMENTS (24/7/365)

To guarantee **fail-safe continuity** in high-availability environments, hardware that exceeds traditional office standards is required. The reliability of 24/7/365 operation relies heavily on the stability of the host platform.

RECOMMENDED REQUIREMENTS (SERVER / WORKSTATION LEVEL)

- **Processor:** Intel Core i5 / i7 (Gen 10+) or AMD Ryzen 5 / 7, or Intel Xeon architecture oriented towards low interrupt latency.
- **RAM:** 16 GB DDR4 / DDR5 with Error Correction Code (ECC) recommended in critical environments.
- **Storage:** Industrial-grade SSD (e.g., Samsung PRO, Intel Optane) dedicated *exclusively* to recording dumps, guaranteeing high TBW (Terabytes Written). An internal enterprise HDD is recommended for long-term backup.
- **Power and Cooling:** Redundant power supply, obligatorily connected to an online double-conversion Uninterruptible Power Supply (UPS) with AVR. Cabinet with continuous cooling and strict thermal control.
- **Operating System:** Windows 10/11 Pro or Windows Server LTSC (Explicitly configured without scheduled automatic updates that might force unattended reboots).

BASIC / MINIMUM REQUIREMENTS

- Intel Core i3 equivalent (Dual Core, 2.0 GHz+).
- 8 GB RAM.
- Standard SATA or M.2 SSD (Capacity depending on the required archive time).
Windows 10.

INSTALLATION AND SECURITY

Deployment Procedure

The application is portable or deployed without altering destructive system libraries. Logs and the configuration database are hosted in the user's secure directory (`%APPDATA%/ProRecordRadio`).

USB Dongle License Control

The program periodically verifies, via WMI (*Windows Management Instrumentation*), the presence of a specific physical USB key (Dongle) that holds the embedded authorized serial number. If this security key is removed, the program will limit its operation and notify the user of the incident, stopping unauthorized access to parameterization.

User Levels

- **Administrator Mode:** Protected by an inviolable password from the interface (with technical reset possibility upon loss, by contacting support). Allows starting/stopping scheduled recordings, changing paths, editing templates, deleting scheduled tasks, etc.
- **User Mode:** Default role upon startup. Allows read-only access (viewing what is being recorded, viewing VU meters, and limited access to the PFL player). Alteration controls remain locked to prevent human errors (*fat-fingering*).

USER INTERFACE

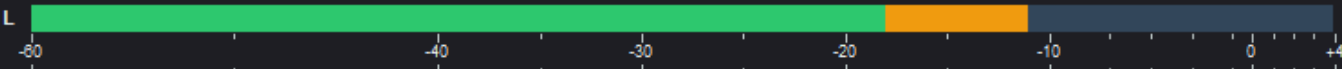
Designed with a dark aesthetic and anti-visual fatigue color schemes, the interface simulates the converters and controllers of a radio broadcasting studio.


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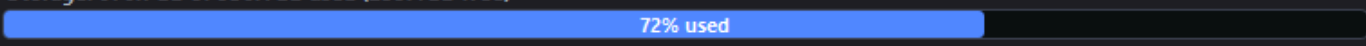
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[Schedule Recording](#) [View Schedule](#)

Pro Suite RADIO

30/03/2026

20:04:35

Access Level: Administrator

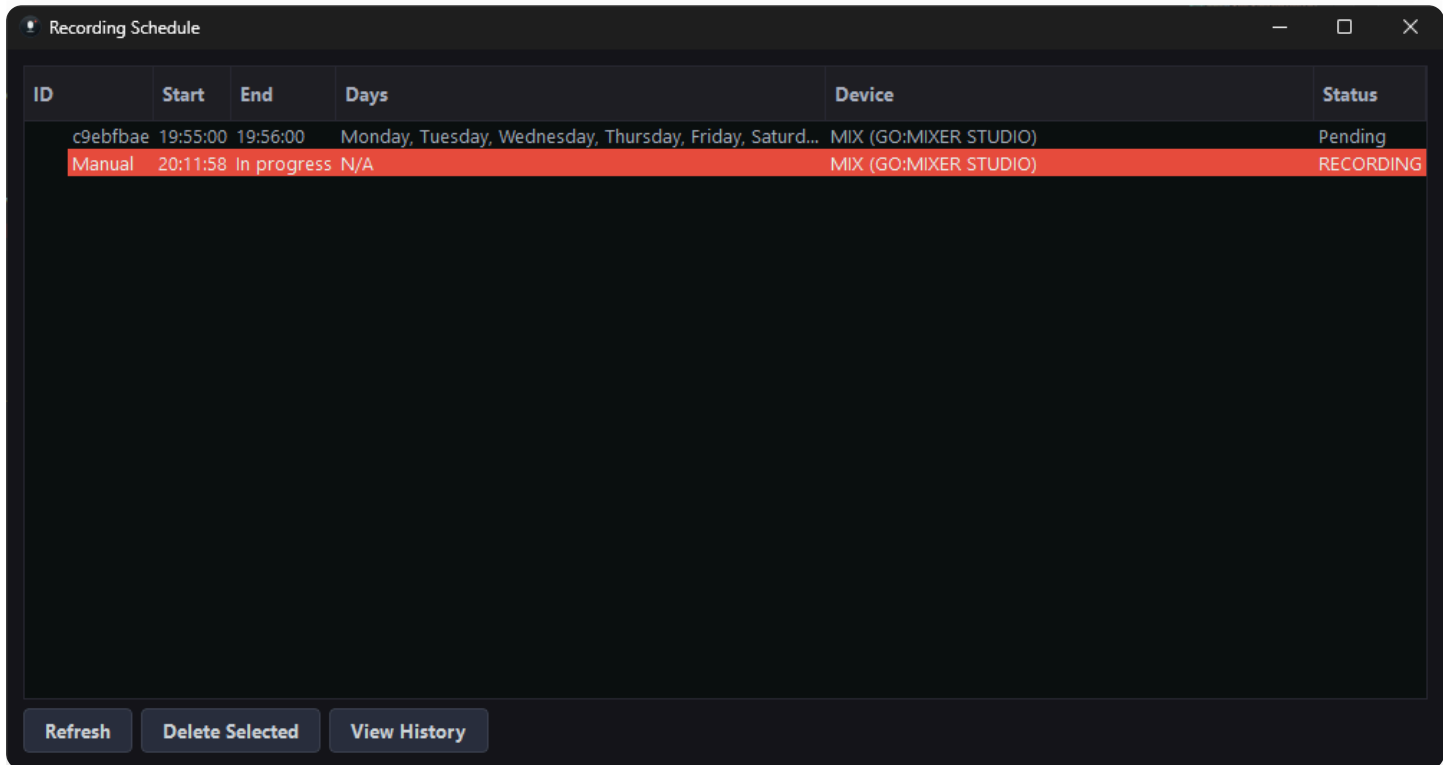
Control Panel: VU Meter, Clock and Storage Monitor

- **Input Module (VU Meter):** Ballistic peak analyzer. RMS to dB signal conversion with a +10.0 calibration offset adjustable by the developer. Shows L/R bars with gravity drop emulating analog instruments (Green: nominal, Orange: soft saturation, Red: Critical clipping >0dB).
- **Main Clock:** Millimetric time display synchronized with the host system clock.

- **Manual Recording Control:** Bright red main button ("● REC") / ("■ STOP") for quick overrides. Only activatable under administrator privilege escalation.
- **Storage Monitor:** Progress bar that visually warns if the disk load exceeds 80% (Yellow Alert) or 95% (Red Alert of imminent failure due to lack of space).

RECORDING SCHEDULE

The automation module allows setting the machinery to work on its own. Regardless of whether the program restarts (due to blackouts or recovered failures), upon loading it will re-read its json job queue and reactivate recording if it is within the valid time slot.



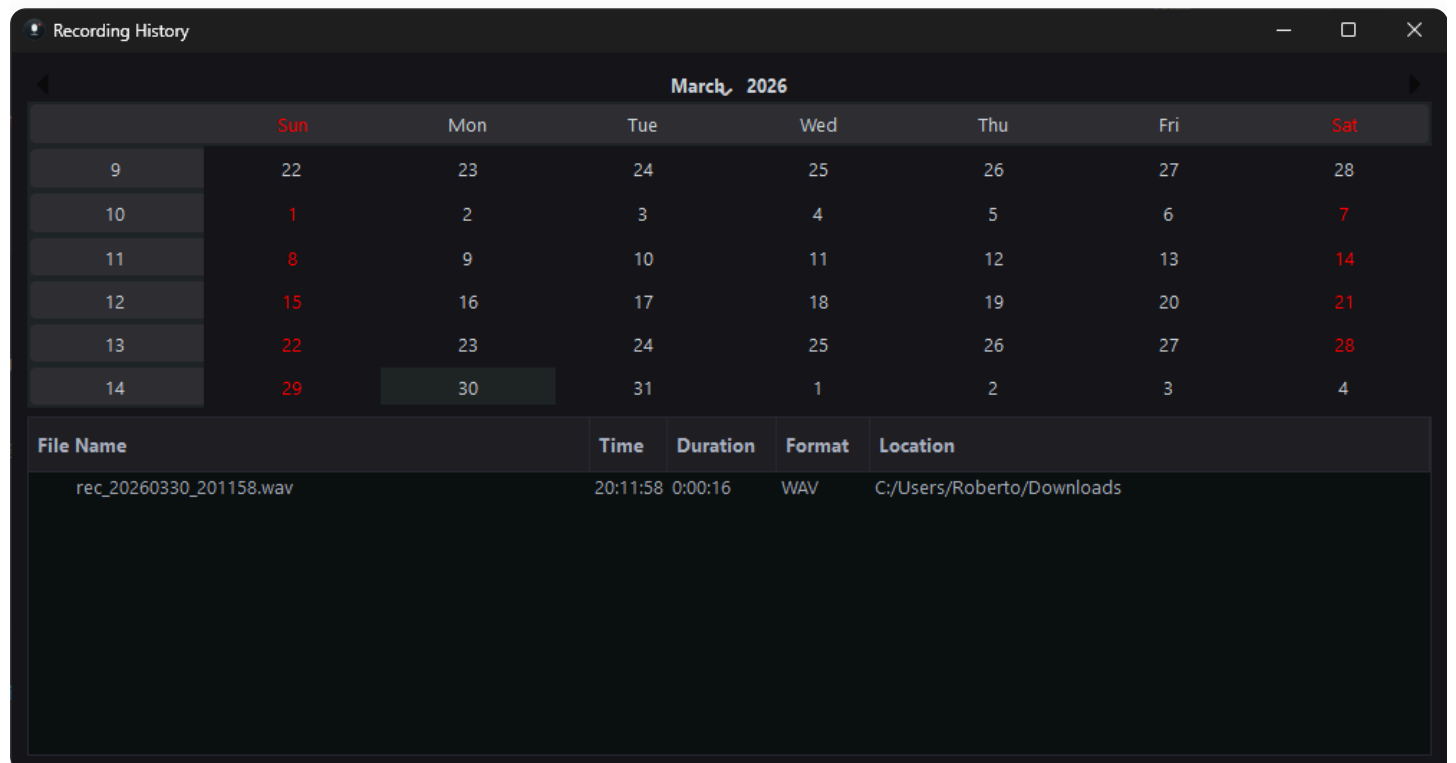
ID	Start	End	Days	Device	Status
c9ebfbae	19:55:00	19:56:00	Monday, Tuesday, Wednesday, Thursday, Friday, Saturd...	MIX (GO:MIXER STUDIO)	Pending
Manual	20:11:58	In progress	N/A	MIX (GO:MIXER STUDIO)	RECORDING

Recording Schedule: Task Management and Monitoring

- **Dump Path:** Selection of the ingest folder.
- **Dynamic Template:** Wildcards are supported. For example, `recording_{date}_{time}` will translate to `recording_20231005_153000.wav`. Other wildcards: `{weekday}`, `{device_name}`, `{id}`.
- **Quality and Format:** Multi-codec support including WAV (Lossless/PCM), FLAC, or high-fidelity OGG/MP3, depending on the delegates installed in the operating system (*soundfile libs*).
- **Day Selection:** Checkboxes for "Monday to Sunday". Possibility to check "All".
- **Overlap Rules:** The system rejects adding agendas that collapse in their own time range for the same device, preventing corruptions or stream locks of Windows Audio Session (WASAPI/DirectSound).

HISTORY AND PRE-LISTEN (PFL)

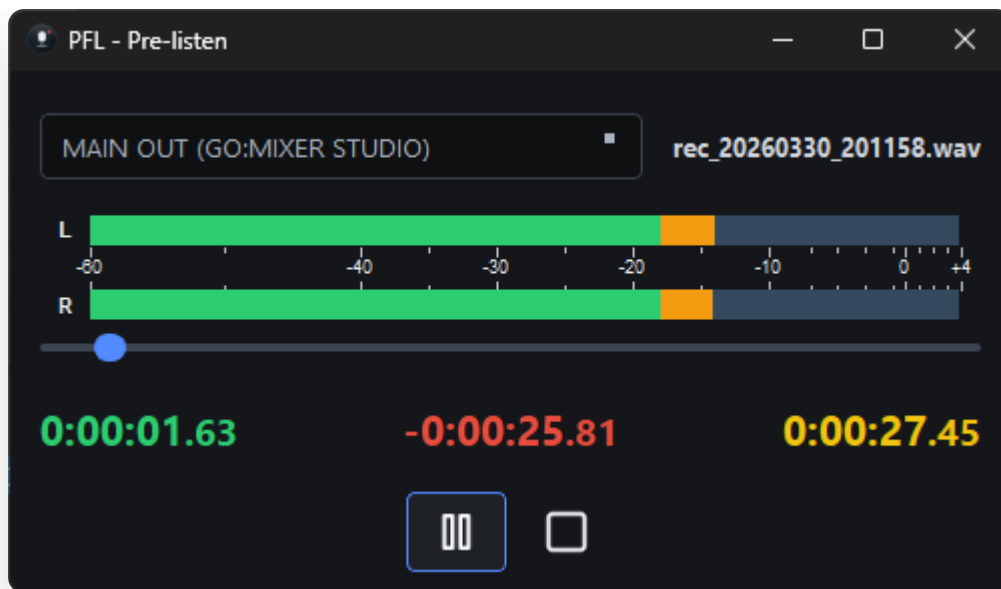
The History consolidates the entire audio archive. It uses an interactive calendar in the "Recording History" dialog. By clicking on a day, the system mechanically filters the ingest directory, decodes the WAVE/FLAC headers on the fly, and outputs the metadata (Duration, size, codec, and creation time).



The screenshot shows a window titled "Recording History" with a dark theme. At the top, there is a calendar for "March, 2026". The calendar grid shows days from 9 to 31, with the days of the week (Sun, Mon, Tue, Wed, Thu, Fri, Sat) listed above. The numbers 1, 8, 15, 22, 29, 7, 14, 21, and 28 are highlighted in red. Below the calendar is a table with the following columns: File Name, Time, Duration, Format, and Location. The table contains one row of data.

File Name	Time	Duration	Format	Location
rec_20260330_201158.wav	20:11:58	0:00:16	WAV	C:/Users/Roberto/Downloads

Recording History: Calendar and File Navigation



Isolated PFL (Pre-Fade Listen) Player Dialog

PFL (Pre-Fade Listen) Player

Tool designed for asynchronous auditing and quality control. Allows loading the completed file. Features:

- *On-The-Fly* selection of an independent playback interface. It can direct the pre-listen audio to the control booth headphones instead of Master.
- Ballistic scrubbing of the timeline with the slider without abrupt interruptions.
- Reading of the original file level on the integrated PFL VU Meter itself, determining if saturations existed during embedding.

ADMINISTRATIVE SETTINGS

The "Security" menu on the top toolbar groups the locking options. From there, you can access **Change Password** and **Stop Scheduled Recording**.

Manual Stop: If you wish to interrupt the scheduled dump for an emergency without deleting the original task, using the "Stop Scheduled Recording" button will force the closure of the thread (*Recording Worker*), releasing the file, and mark that Job ID in the *Blacklist* until 00:00 of the current day, ensuring it does not trigger repeatedly.

Important: On the first execution or after a Recovery Token, the software will require setting an initial master key. Take proper care of it.