RADIO Logger Pro - Manual

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About

User manual for
RADIO Logger Pro. v. 2

About RADIO Logger Pro

RADIO Logger Pro - continuous broadcast recording software with automatic archiving and configurable retention periods.

Regulators require radio stations to maintain broadcast recordings. Advertisers request proof of performance. Aircheck analysis needs actual broadcast data, not scheduled playlists. The software records audio to disk in WAV, MP3, AAC, OGG, or FLAC formats. The archive is organized by date and time - any segment is accessible in seconds. Outdated recordings are automatically deleted based on your retention policy.

Features

- **Continuous recording** - runs in the background without gaps; each block is saved with date/time stamps
- **Archive log** - chronological listing of all recordings with date filtering
- **Configurable block size** - from 1 minute to 24 hours
- **Compression formats** - MP3, FLAC, AAC, OGG with adjustable bitrate; uncompressed WAV for bit-perfect accuracy
- **Per-channel compression** - independent on/off per recording channel
- **Retention period** - recordings are automatically deleted after a set number of days
- **Recording playback** - select segments by date, time, and duration; play back directly in the program

Working with RADIO Logger Pro

Startup settings

RADIO Logger Pro is a radio broadcast recording application. It continuously captures audio from sound cards or network streams and saves the recordings to disk as files. Recordings can be organized by time-based schedules, named using flexible filename templates, and automatically archived or deleted based on age. Multiple channels can be recorded simultaneously using the Profile Manager.

Follow the steps below to complete the initial setup and begin recording.

Step 1: Install and launch the program

- Run the installer and follow the on-screen instructions.
- Launch **RADIO Logger Pro** from the Start menu or desktop shortcut.
- On first launch the program opens with default settings. Proceed through the following steps to configure it for your environment.

Step 2: Select storage folders

The program requires one or two folders with sufficient free disk space.

- If you use an encoder that compresses audio on the fly (e.g. MP3), only one folder is needed: the **Record saving folder**.
- If you use an external encoder that first records uncompressed WAV and then re-encodes, a second folder is also needed: the **Temporary records folder**.

- Open Settings and go to the Folders page.
- Set the **Record saving folder** to a location with enough free space for your recordings.
- If using an external encoder, also set the **Temporary records folder**. For best performance, place this folder on a different physical disk to reduce fragmentation and improve file access speed.

Step 3: Select the recording device

If the computer has more than one sound card or audio input device, you must specify which one Logger will use to capture the signal.

- Open Settings and go to the Record / Save page.
- Select the desired sound card from the **Record device** drop-down list.
- Use the Windows system audio mixer (Volume icon in the system tray) to select which physical input (line-in, microphone, etc.) of that card will be used as the audio source.

Step 4: Choose the audio format

Choose how recorded audio will be stored on disk.

- **PCM WAV** - uncompressed, highest quality, largest file size.
- **MPEG Layer 3 (MP3)** - compressed, smaller file size. Requires selecting a suitable encoder.
- On the Record / Save settings page, select the desired format and encoder.
- Configure the bitrate and sample rate according to your broadcast archiving requirements.

Step 5: Configure the file naming template

Logger uses a filename template to automatically name each recorded file. Templates can include date and time placeholders so that files are sorted chronologically on disk.

- Open Settings and go to the Record / Save page.

- Enter a template in the **File name template** field, for example ***%YYYY%-%MM%-%DD%_%hh%-%mm%***.
- Refer to the filename template reference in the help for a full list of supported placeholders.

Step 6: Select the work mode

The program supports two recording modes:
- **Continuous recording** - records without interruption, splitting output into files at regular intervals.
- **Block recording** - records according to a configurable schedule, starting and stopping at specified times.

See the Schedule panel for mode descriptions and schedule configuration.

Step 7: Start recording

Once the settings above are configured, you can start recording:
- Click **Record** in the main window to begin recording manually.
- Click **Stop** to end the current recording session.
- If block recording mode is active, the program will start and stop automatically according to the defined schedule.

For a full description of all program settings, see the Settings section. To record multiple stations simultaneously, see Profile Manager.

Frequently asked questions

1. Is it possible to record several different signals simultaneously?
2. The recording file is not created. What should I check?
3. How do I set up automatic recording on a schedule?
4. How do I limit the size or duration of each recorded file?

Is it possible to record several different signals simultaneously?

Yes. To record several signals (radio stations) at the same time, use the Profile Manager. Each profile runs as a separate instance of RADIO Logger Pro with its own settings, recording device, and storage folder.

To set this up:
- Open **Profile Manager** from Start - All Programs - RADIO Studio Pro - RADIO Logger Pro - Profile Manager.
- Create one profile for each signal you want to record.
- Configure each profile with a different recording device and a separate storage folder.
- Launch all profiles from Profile Manager. Each will start a separate Logger instance.

Note that simultaneous recording of multiple channels requires a separate audio input device for each channel. See Profile Manager for detailed instructions.

The recording file is not created. What should I check?

If Logger is running but no files appear in the storage folder, check the following:
- Verify that the **Record saving folder** exists and is accessible. Open Settings - Folders to check the path.
- Check that the disk is not full. Logger cannot write files if there is no free space.
- Confirm that the program is in an active recording state - the **Record** button should be active or the schedule should have triggered a recording block.
- If using an external encoder, confirm that the encoder executable is present at the path specified in Record / Save settings.

- Check the program log for error messages.

How do I set up automatic recording on a schedule?

Use block recording mode to start and stop recording automatically at configured times:
- Switch the work mode to **Block recording** in the main window or in settings.
- Open the Schedule panel.
- Add recording blocks by specifying the start time, duration, and recurrence (daily, weekly, etc.).
- Confirm that the program is running when scheduled blocks are due - it will start and stop recording automatically.

How do I limit the size or duration of each recorded file?

In continuous recording mode, Logger can automatically split the output into separate files based on time. To configure this:
- Open Settings and go to the Record / Save page.
- Set the **File duration** option to the desired interval (e.g. 60 minutes).
- Logger will automatically start a new file at each interval, using the filename template to generate a unique name for each file.

Menu

Menu "File"

Close
Close the program

Menu "Tools"

Settings
Show settings window

Language
Language selection menu.
Selecting default language will cause program restart.

Files of language support are stored in subfolder Language, in the folder with program.
Expansion of files is *.lng.

To translate interface to a new language:
- open RLPro*.lng file with notepad
- translate all values after = sign in file *.lng
- save this file with a new name
- restart a program
- select new translation from Language menu.

Menu "Help"

Help
Shows this help.

Startup settings
Shows help for Startup settings

Frequently asked questions
Shows help for Frequently Asked Questions

Menu "About"

Internet Home page
Opens home page in Internet browser.

Internet support page
Opens support page in Internet browser.

Email support
Opens your Email client to send email to support.

Check for updates
Checks for updates on official site via internet. Internet connection is needed.

License information
Shows a help with the Registration/Purchase information

License FORM
Shows a window with the licence registration form.

Load license key
Use this item if you want to load license activation key for the program.

Changes list
Shows the list of changes.

Version
Shows "About" window with information on the version of the program and its owner.

Panels (Tabs)

Schedule

Record mode

Continuous

The mode of record with automatic splitting to the blocks of the specified length.
The beginning of the next block is the end of the previous block.
There is an ability to set up time of automatic starting and stopping of record process, eg. for the night period.



Block duration

The size of the recorded block. Record will be split into blocks which duration will be less or equal to the specified size.
The exact size of the recorded block depends on setting **"Split by rounded stop time"**

Split by rounded stop time

When option checked blocks will be stopped on the approximated time of a stop calculated from the beginning of hour and the duration of the block.
It allows to have more convenient for view start and stop times of the block.
Example: If the duration of a block is 15 minutes then blocks will have stop time at 15-th, 30-th, 45-th, and 60-th minutes of hour.
Block start time has no influence of the block stop time.

Example: If the duration of a block is 30 minutes then blocks will have stop time at 30-th and 60-th minutes of hour.

When option is not checked block stop time will be equal to the block start time + duration of the block.

Start by time

Times for the automatic record start.



Add time

Adds new time



Delete time

Removes selected time

Stop by time

Times for the automatic record stop.



Add time

Adds new time



Delete time

Removes selected time.

Blocks

Record mode which allows to record according to the list of the created blocks.
Each block has its own settings.

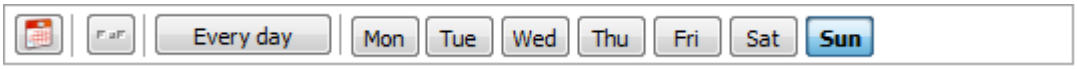
Suggest create block if no active found

When option is checked and button " **Start record** " is pressed then if there no blocks for the given period of time program will offer to create the new block.

Confirm autodelete on manual stop

When option is checked and button " **Stop record** " is pressed then if current block has checked option**"Automatically remove block setting after record"** program will offer to confirm block removal.
When option is not checked then such block will be automatically removed with no confirmation messages.

Date/day selection buttons



Allows to select one or more days depending on button state.
Button allows to select a certain date

Add block

Add new block. New block properties dialog appears.

Remove block

Remove selected block

Edit block

Edit block properties

Activate/Deactivate

Enable/Disable block automatic record

On/Off autodelete mark

Enable/Disable **"Automatically remove block setting after record"** option

Information

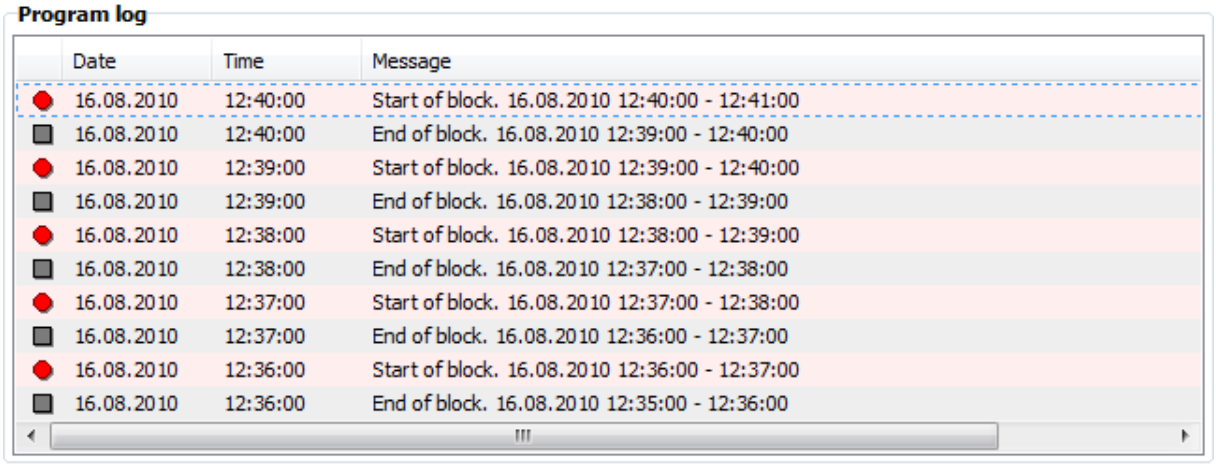
Information panel

Panel is used to display information about free disk space for saving and record, current block and next block.



Program log

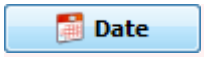
Current program events are displayed in order of appearance. Most recent are displayed on the top of the list.



Archive

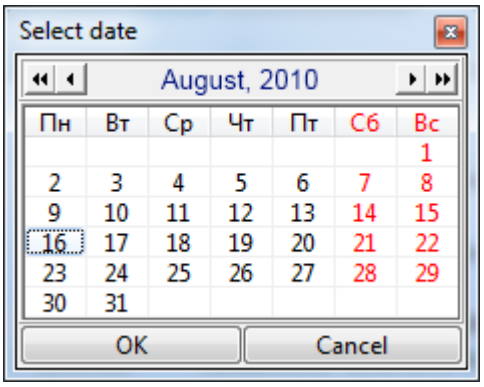
Archive is used to view, listen and delete archive records.
Program events are displayed in archive as well.

Date selection panel



Select date

Date selection using drop-down calendar as shown on the picture.





Previous date

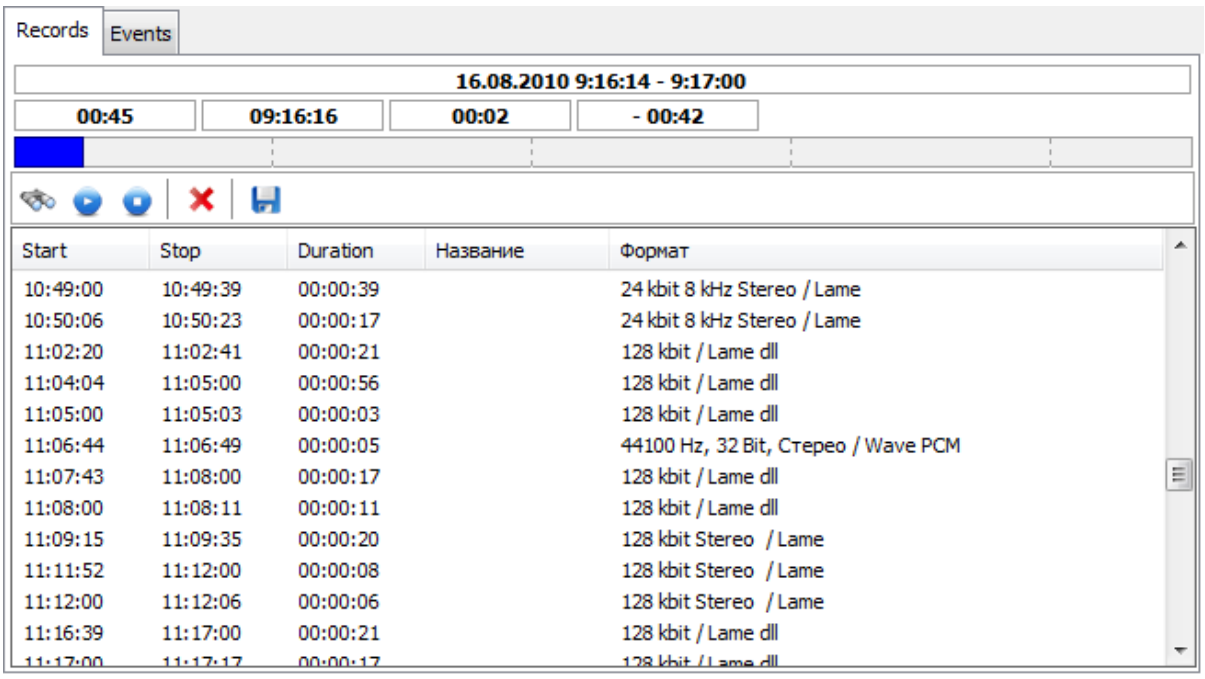
Select previous date



Next date

Select next date

Archive view and listen panel





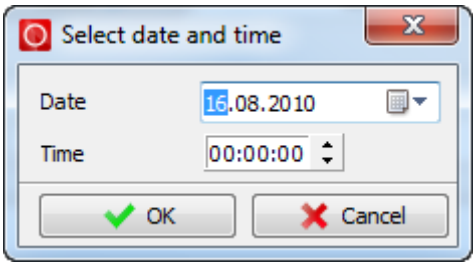
Reload archive from disk

Reloads archive from disk. Can be used to view manually changed or restored files from Windows recycle bin.



Find and play by time

Record will be automatically found by selected date and time. If no record found information message "No record for selected time" will be shown.



Play selected
Selected record will be played

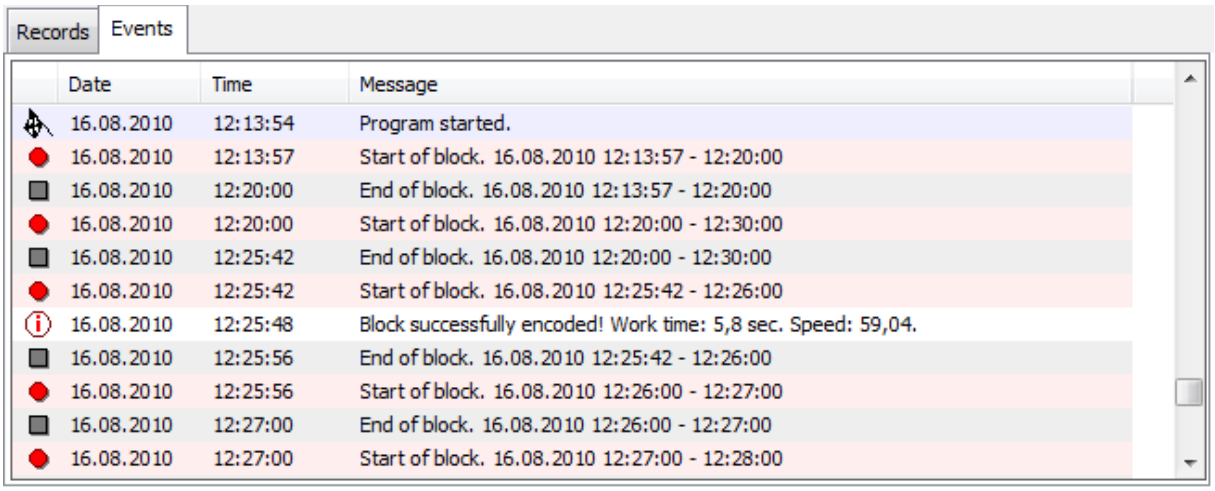
Stop playing
Record playing will be stopped.

Delete selected record
Deletes selected record permanently from the disk

Save selected record to disk
Allows to specify file name the selected record will be saved to.

Events view panel

All events for the selected date are shown.



Settings

The Settings window is used for changing program parameters.
For getting help on a certain section choose it in a contents tree on the left.

Program

Launch program on Windows startup
Enables/disables automatic program start for current Windows user.

Begin recording on startup
Start recording immediately after program start.

Change program title
Specify the program title you would like to see at the window top.
Can be used to differ windows for different profiles.

View as

Taskbar only
View as standard button when minimized.

System tray
View as icon near system hours when minimized.

Show record meter
Show/hide record level meter (indicator).

Vertical indicator
Level Indicator will have vertical style

Automatically check for updates
Program automatically checks for available updates. User will be prompted when update is available.

Ask on exit when record is activated
When record is activated program will not be closed without notification message.

Show confirmation on manual stop
Shows confirmation dialog when user clicks STOP button.

Debug

The debugging mode is designed to obtain additional information on an error that has occurred for sending to the developer.
It is not recommended to enable debugging in normal operation mode.

If an error occurs, the program will offer to enable debugging in settings and an additional option if necessary.

Enable debugging
On/Off display of debugging information in error windows.

Debug timers
Enabling debugging for timer procedures

Debug threads
Enabling debugging for procedures running on threads

Restore debugging options on application restart
If the parameter is disabled, then after restarting the program the debugging mode will be turned off

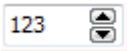
Command line options

Three options are supported for launching an application with debugging enabled.
/Debug - Enable debugging
/DebugTimers - Enable debug timers.
/DebugThreads - Enable thread debugging.

Example: Application.exe /Debug

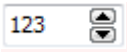
Folders

Archive folder
The folder in which archive files are stored (folder Record), text log (folder TxtLog) and record information (folder Info)
It is recommended to specify different folder than for temporary records to reduce hard disk fragmentation.



Free space limit (Mb)
Free space limit size on a disk. When disk free space is below the limit the program will consider, that the disk has no free place for saving archive files.

Temporary records folder (for PCM wave)
The folder in which temporary record files are stored.
When record stops temporary files will be moved to archive folder.



Free space limit (Mb)
Free space limit size on a disk. When disk free space is below the limit the program will consider, that the disk has no free place for saving temporary files.

Record

Sound capture

Device
Select sound capture device used for recording.

Record settings (Recommended 44100 Hz, 16 bit, Stereo)
Frequency, Bit rate and channel count settings.

Record buffer length (sec)
Buffer length for record. Bigger size will take more time to fill but will be more stable for "slow" computers.

Save

Archive

123 **Record life time (days)**
Time (in days) through which records will be automatically deleted from archive.
Time is counted from time of the beginning of each record.
Log event will be added to the list of events on automatic removal of a record.

Use Windows recycle bin
When checked Windows recycle bin will be used to delete records.
Records can be restored after deleting by restoring files from Windows recycle bin. To view restored records press "Reload from disk" button in Archive tab.

Remove old records when no free space left
When option is checked at insufficient disk space (the limit of an empty free space on a disk is specified in section Folders) the oldest records will be removed to free a place on a disk for recording or for saving of the next block. If no free space left after removal- record will be stopped.
When option is unchecked when no free space left record will be stopped without any actions.

Save to disk

abc **File name template**
Template, used for record file names. Detailed template usage can be found in File name templates chapter.
Template result can be seen below the template input field.

"Rename archive" automatically renames the previously saved files using the current template.
"Reset template" sets the initial value for the template [start:yyyy\mmmm\dd\yyyymmdd-hhnnss]

WARNING! It is recommended to stop record before using template operations.

Enable MP3 encoder
Enable/Disable encoding to MPEG Layer 3 format (compressed records saves disk space, but they need more time and CPU resources for encoding)

Compression settings

Encoder
Select encoder

Type
Show encoder type.

- Encoding "on the fly". No temporary files needed.
- External encoder (compress recorded wave files)

Format
Select encoding format

Do not hide encoder window
Encoder window will be shown during encoding process. For external encoders.

Signal detector

The detector of a signal absence - function allows to supervise presence of a signal on sound card input. When signal disappears the corresponding message is put to events list and program performs other actions (signal on PC Speaker or LPT port).

Enable
Enable/Disable detector

Detector settings

123 **Level (dB)**
Volume level below which signal state is considered as absent.

123 **Time (sec)**
Time through which after loss of a signal program performs actions.

Alerts

Audible warning for PC Speaker
Enable/Disable PC Speaker alert. Plays alert sound using PC Speaker.

Email message when signal is lost
Sends email message when program detects signal loss.

Email message when signal is found
Sends email message when program detects signal presence (after signal loss).

Start programs

Start program when signal is lost.
Starts windows application or batch file (*.exe or *.bat) when program detects signal loss.

Start program when signal is found.
Starts windows application or batch file (*.exe or *.bat) when program detects signal presence (after signal loss).

LPT Usage

LPT port signal
Enable/Disable LPT port alert.

LPT Settings

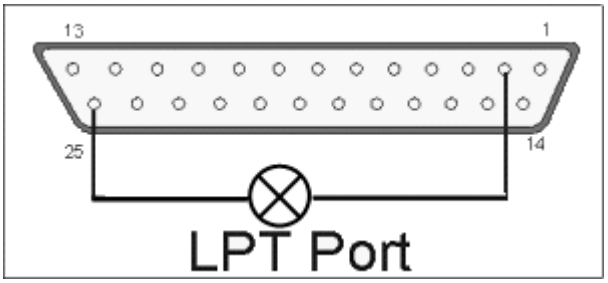
123 **LPT pin number for signal loss**
LPT pin number on which logic 1 will be set at absence of a signal is specified.
Button **"Test"**allows to check up LPT port work.

123 **LPT pin number for signal presence**
LPT pin number on which logic 1 will be set at appearance of a signal is specified.
Button **"Test"**allows to check up LPT port work.

123 **Signal duration msec (0-unlimited)**
Duration of logic 1 on specified LPT pin is specified.

Example of connection of contacts:

If it is necessary to connect contact 2 for writing to, it is possible to use the following scheme.
Contacts 25-17 are the ground (logic 0)



Play settings

Play device
Select sound card output device used for playing archive files.

☑ **Start next record on previous stop**
Next record listed in archive is started after current record is stopped playing. Used for listening to several records one by one.

Archive

123 **Maximum log count**
Number of last events which will be displayed in current events list in Record page.
Whole events list can be found in Archive page.

Select which messages are saved to the text log.

☑ **Program start**
Program launch.

☑ **Program stop**
Program close.

☑ **Record start**
New record start.

☑ **Record stop**
Current record stop

☑ **Signal lost**
Signal detector messages when signal is disappeared

Signal detect
Signal detector messages when signal is found

Record remove
Manual and automatic record remove

Information
Information messages

Errors
Error messages and warnings

E-mail

Settings for Email messages sent by the program.

Messages in the subject line
When this option is enabled subject will contain message text. Email body will be empty.

E-mail Setup

abc **From (E-mail)**
Sender E-mail address.

abc **To (E-mail)**
Receiver E-mail address.

abc **Subject**
E-mail subject text.

SMTP Settings

abc **Server**
SMTP server address.

abc **Port**
SMTP server port. Default is 25.

abc **User name**
SMTP authorization user name.

abc **Password**
SMTP authorization password.

Access

Access settings for various program functions.

abc **Admin password**

Specify administrator's password. You can specify functions which will require password check before activation.

Check admin password for the following actions

Access settings
Access settings window.

Remove audio record
Manual audio record removal.

Change schedule
Access to Schedule tab. You will be prompted to enter password when tab is activated.
Tab controls will be deactivated if wrong password entered.

Start/Stop record
Manual start stop record using RECORD and STOP buttons.

Program exit
Check for the password before program closed

Configuration

Backup or restore program configuration using this functions.

Archive data

Program settings
Program settings, window positions, column settings etc.

Text and audio log
Text messages and audio records.

Actions

Save to archive
Save selected data to archive
Warning will be displayed if disk has insufficient space.

Restore from archive
Restore selected data from archive
Select archive file with data.
Example: Archive file for Logger has name like "Logger2-Backup-2010-08-15-20-22-19.zip"

Older versions

Import RADIO Logger Pro v.1.x.x.x configuration
Import RADIO Logger Pro v.1.x.x.x configuration and data.
You will be prompted to select RADIO Logger Pro v.1.x.x.x folder.
If you have installed RADIO Logger Pro then setup folder will be selected by default.

Example: c:\Program Files\RADIO Studio Pro\RADIO Logger Pro

It is highly recommended to check all settings after import because not all new settings has correspondent ones in older version.

Import configuration

Backup archive folder

Specifies the location of the directory to store zip data archives.

Relative path from

Defines the folder that a relative path to the archive folder is counted from. If a full path (with a drive letter or a network path) is specified, this choice is not used and becomes unavailable.

Profile folder

Archives are stored inside the data folder of the current profile (default).

User Documents

Archives are stored in the user "Documents" folder: RADIO Studio Pro\Application\Profile\. A separate folder is created for each profile.

Current path

Shows the full path to the archive folder according to the selected settings. Updated when they change.

Options

Warn when backup is disabled

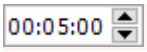
If automatic backup is turned off, 5 seconds after start the program warns about it and offers to open the backup settings. The warning is not shown when a Windows Task Scheduler task exists. To turn the warning off, tick "Do not show again" in its window or clear this checkbox.

Autosave configuration archive on exit

On/Off autosave the archive when exiting the program.
The archive is not saved if there were errors during the program loading.

Automatically backup on time

Enable/Disable autosave of the archive at the specified time, after the selected time interval.
The archive will be created only when the program is on, if the specified time has come.



Backup time

Time of the archive creation.



Interval in days

The interval in days, through which a new copy of the archive will be created.

Use limited number of archives

When the option is enabled, the program will automatically delete older archives when creating new ones.



Maximum count

The maximum number of archive files upon which the program will begin to delete older archives.

No more than one archive per day

When the option is enabled, the program will delete the old archives on the same date when creating new ones.

Actions

Save to archive
The procedure for saving to zip the archive of the selected data.

Restore from archive
The procedure for restoring the previously saved data from the zip archive. Only the selected ones will be restored, regardless of the availability of data in the archive.

Resetting data
The procedure for resetting the selected data to the default state.

Windows

Main Window

Manual record management

Buttons for manual start/stop of the record.



- start new record.

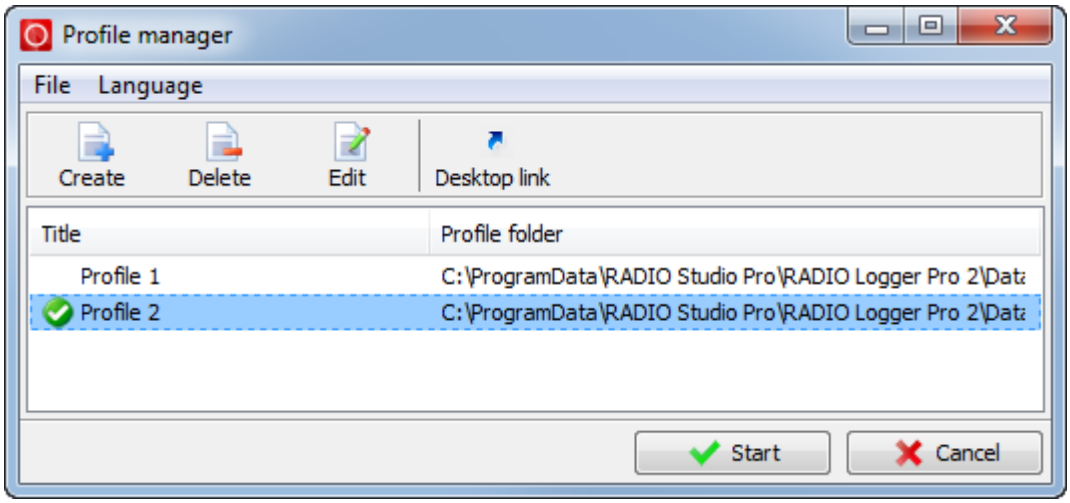
In **Continuous** record mode program will simply start recording.
In " **Blocks** " record mode if an active block is present for this time period - it will be started if no current block available new block creation message will be offered to create the new block and to specify its characteristics.



- stop current block record

Recording will be stopped and record will be stored to archive.

Profile manager



Profile Manager is designed to create multiple profiles, allowing to run the program with a set of predefined parameters.
Each profile stores its data in the specified profile directory.
Launch manager profiles available via the Start Menu - All Programs - RADIO Studio Pro - RADIO Logger Pro - Profile Manager.

To start the manager manually, you can use the "/Profile" parameter at startup.
Example: Logger.exe/Profile

Create

Create a new profile.
Profiles created with the "default" setting is used when the program is run without specifying the profile directory.

Delete
Remove profile directory.

Edit
Edit profile settings.

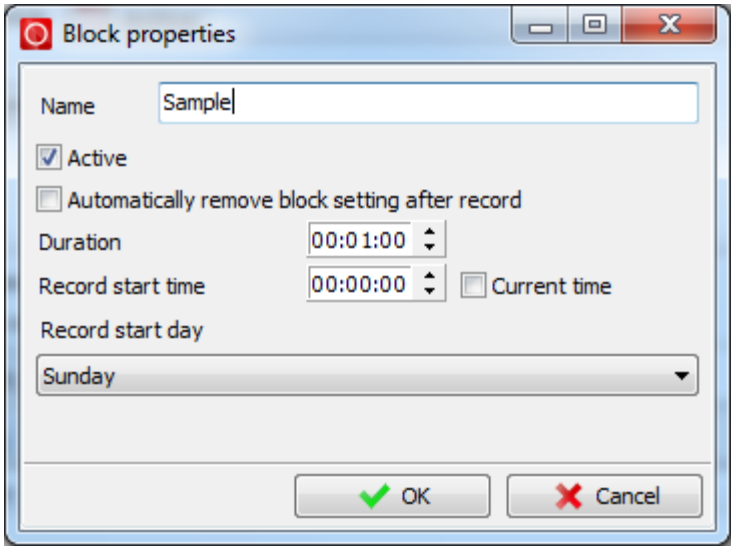
Create link
Creating a shortcut to the selected profile on your desktop.
You can make a few shortcuts to launch the program with the appropriate profiles.
To run program with a specified profile folder use "/Data=Profile_Folder" parameter.

Example: Logger.exe "/Data=D:\NewProfile\"

Start
Start with the selected profile

Cancel
Close profile manager

Block properties



Block property window

Name
Block name displayed in archive.

Active
Activate/Deactivate automatic block record.

Automatically remove block setting after record
Record setting of the block (NOT recorder block) will be removed after successful record of the block.
It is convenient to use for record of non repeating events.

00:00:00,0 **Duration**
Block duration.

00:00:00,0 **Record start time**

Block record start time

Current time
Automatic current time entering on block save

Record start day
Used to specify certain date or day for record.

Information

File name templates

Dynamic fields can be used to create file name for saved records. Fields are automatically replaced with appropriate values.
Invalid characters for a filename (: ") are removed.

Dynamic fields have this syntax
[type] - for fields without parameters
[type:parameters] - for fields with parameters

Field types

name - Block name form Block properties is used. No parameters needed.
start -. block start time. Parameters - date-time format string.
stop - block stop time. Parameters - date-time format string
size - block duration. Parameters - date-time format string

Date time format

The Formatting string can comprise a mix of ordinary characters (that are passed unchanged to the result string), and data formatting characters.

y = Year last 2 digits
yy = Year last 2 digits
yyyy = Year as 4 digits
m = Month number no-leading 0
mm = Month number as 2 digits
mmm = Month using short name (Jan)
mmmm = Month using long name (January)
d = Day number no-leading 0
dd = Day number as 2 digits
ddd = Day using short names (Sun)
dddd = Day using long names (Sunday)
ddddd = Day in short system date format
dddddd = Day in long system date format

h = Hour number no-leading 0
hh = Hour number as 2 digits
n = Minute number no-leading 0
nn = Minute number as 2 digits
s = Second number no-leading 0
ss = Second number as 2 digits
z = Milli-sec number no-leading 0s
zzz = Milli-sec number as 3 digits
t = Use short system time format
tt = Use long system time format

am/pm = Use after h : gives 12 hours + am/pm
a/p = Use after h : gives 12 hours + a/p
/ = Substituted by system date separator value
: = Substituted by system time separator value

Examples

[name]
Advertising

[start:hhnnss]
12:30:00

[stop:dd-mm-yyyyy - hh.nn.ss]
10-12-2011 - 12.30.00

[start:yyyy\mmmm\]Record [start:yyyy-mm-dd hh-nn-ss] ([size:hh-nn]) [name]
2011\December\Record 2011-12-10 12-30-00 (15-00) Advertising

Registration/Purchase

Demo restrictions

Before registration program RADIO Logger Pro works in a demonstration mode.
After registration all restrictions will be removed.
Visit web site for license purchase information.

DEMO restrictions.

1. Records contain 10 seconds silence per minute.
2. Demo prompt at the program title

Other functions should work like in full version.

License

License purchase

Visit our Home page to find latest actual information on software prices.

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