GLOBAL AUDIO SOLUTIONS



USER GUIDE

RITA® SPL METER

macOS and Windows

Global Audio Solutions

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1. INTRODUCTION

RiTA® SPL Meter is a sound level meter designed for live sound. With a measurement microphone it measures the sound pressure level (dB SPL), and with the signal from the console it measures the loudness of the mix (LUFS). It can show up to 12 meters at once, each with its own channel, measurement type and name. It also records everything it measures, shows the graph in real time and produces the PDF report of the event.

- A, C, Z and K frequency weightings, and Slow and Fast time weightings, according to IEC 61672-1.
- Block and rolling Leq (for example, the 15-minute LAeq), peak, maximum, low frequencies (C-A), crest factor, EBU R 128 loudness and true peak.
- Calibration per channel, with an acoustic calibrator or from the microphone sensitivity.
- Continuous recording, graph with cursor and markers, and PDF and CSV report.
- Projects: save and open the setup of each event.

1.1 REQUIREMENTS

COMPUTER	SYSTEM	INSTALLER
Mac with Apple Silicon (M1 or later)	macOS 13 Ventura or later	RiTA SPL for Mac Apple Silicon (.pkg)
Mac with Intel processor	macOS 12 Monterey or later	RiTA SPL for Intel Mac (.pkg)
PC	Windows 10 or 11, 64-bit	RiTA SPL for Windows (.exe)

- 8 GB of RAM (16 GB recommended) and about 300 MB of free disk space.
- Screen of 1280 × 800 or larger.
- A sound card with a microphone input and a measurement microphone. On Windows, a sound card with an ASIO driver is recommended.
- An Internet connection to activate and deactivate the licence (chapter 3).

2. INSTALLATION

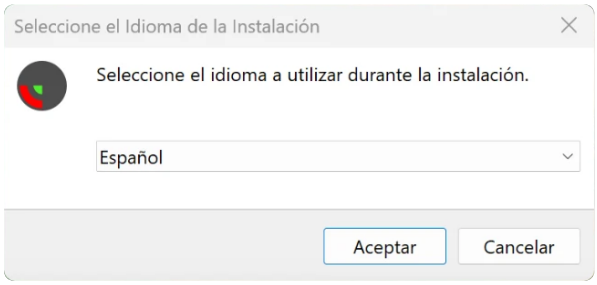
Download the installer for your computer (table in section 1.1). If the previous RiTA SPL is installed, the installer removes it and puts the new version in its place: there is no need to uninstall anything first.

2.1 MAC

1. Double-click the installer (.pkg).
2. If macOS says it cannot verify the developer, click OK and go to System Settings > Privacy & Security. The installer's warning appears at the bottom: click Open Anyway and confirm with your password or Touch ID.
3. Follow the steps: Introduction, Licence (read and accept the licence agreement) and Install. You will be asked for the computer's password.
4. When it finishes, click Close. RiTA SPL is installed in Applications > GlobalAudioSolutions > RiTA_SPL.
5. Open RiTA SPL. The first time, the licence agreement and the activation appear (chapter 3).
6. When macOS asks whether RiTA SPL may use the microphone, click Allow. Without this permission the app receives no audio from any sound card. If you denied it, turn it on in System Settings > Privacy & Security > Microphone.

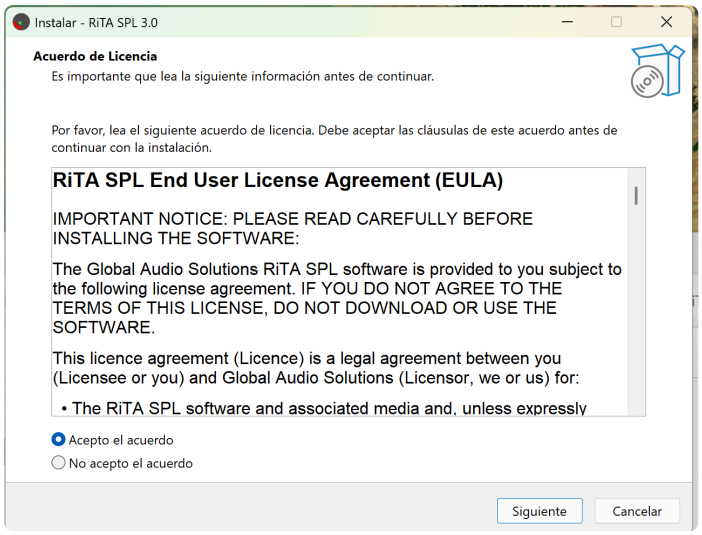
2.2 WINDOWS

1. Double-click the Windows installer (.exe).
2. If "Windows protected your PC" appears, click More info and then Run anyway. Windows will ask for permission to make changes: click Yes.
3. Choose the installation language and click OK.



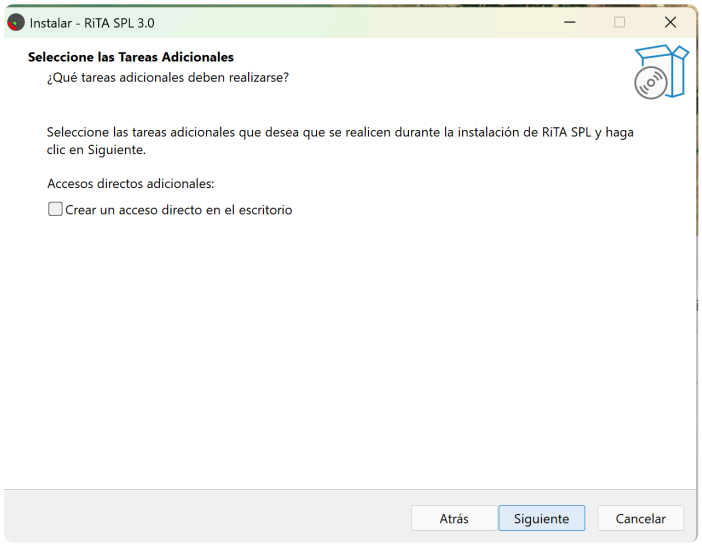
Installation language.

4. Read the licence agreement, select "I accept the agreement" and click Next.



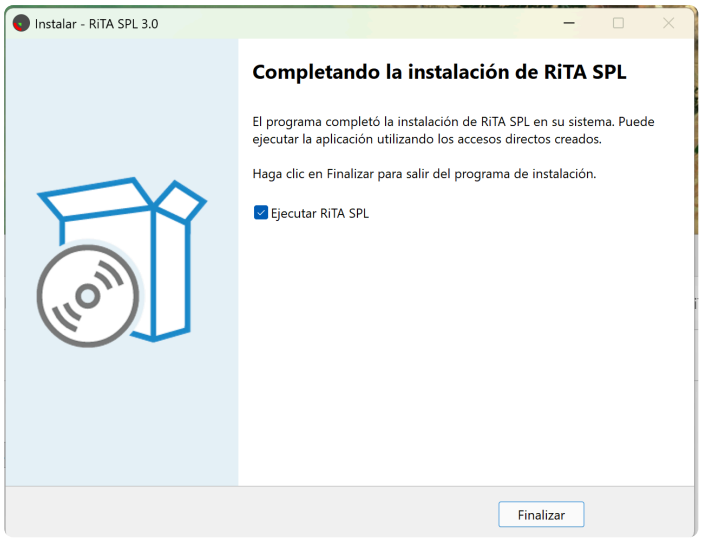
Licence agreement.

5. If you want an icon on the desktop, tick “Create a desktop shortcut”. Click Next and Install.



Additional tasks.

6. Click Finish. With “Launch RiTA SPL” ticked, the app opens straight away.



Installation complete.

RiTA SPL is added to the Start menu and installed in C:\Program Files\GlobalAudioSolutions\RiTA_SPL. The first time, the licence agreement and the activation appear (chapter 3). If the meters receive no signal, check in Settings > Privacy & security > Microphone that "Let desktop apps access your microphone" is turned on.

2.3 COMING FROM THE PREVIOUS RITA SPL

- The previous licence is not valid: the first time, you will have to activate this version with a new key, which customers who already had RiTA SPL receive at no cost (chapter 3).
- The calibration is not carried over automatically. You can calibrate again or import the calibration files (.txt) from the previous RiTA SPL (section 7.3).

2.4 UNINSTALLING

- Mac: drag the folder Applications > GlobalAudioSolutions > RiTA_SPL to the Trash.
- Windows: Settings > Apps > RiTA SPL > Uninstall.

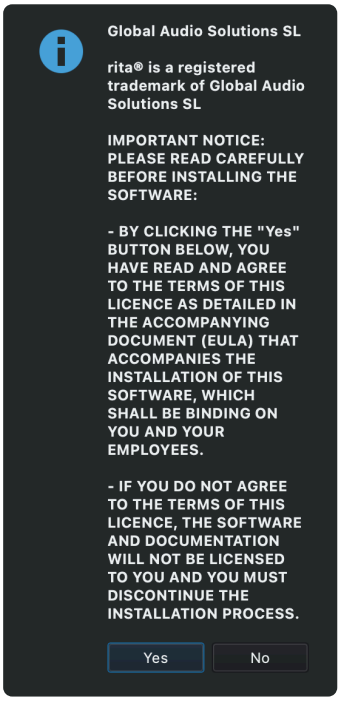
> **Uninstalling does not deactivate the licence.** To move the licence to another computer, first deactivate it from the app (section 3.3) and then uninstall. On Windows, the uninstaller reminds you. If you uninstall or format without deactivating it, the licence stays assigned to that computer and no new licence will be issued.

3. LICENCE

RiTA SPL is activated on each computer with an activation key signed by Global Audio Solutions. The key is unique to that computer and cannot be copied to another one. To activate and deactivate the licence, and to check it from time to time, the app connects to the Global Audio Solutions licence server: an Internet connection is needed.

3.1 LICENCE AGREEMENT

The first time the app opens, the licence agreement appears. Click Yes to accept it and continue; with No, the app closes.

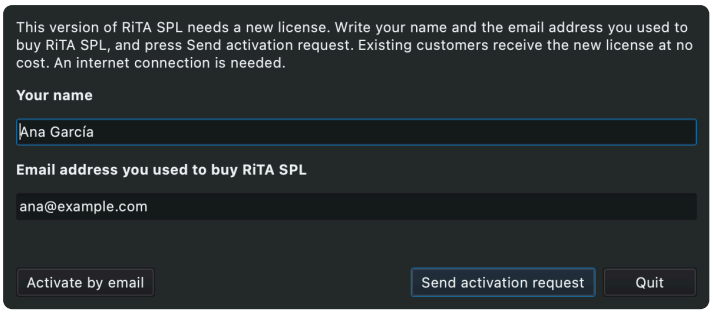


Licence agreement.

3.2 ACTIVATION

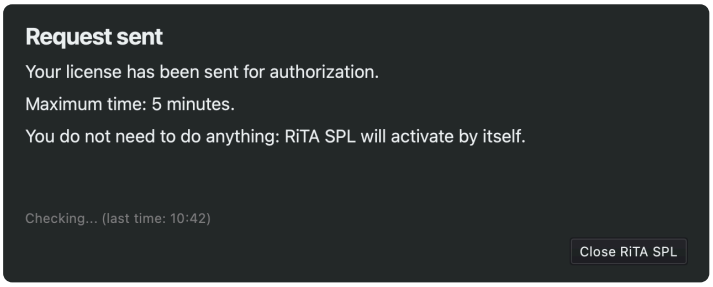
After the agreement, the activation window appears. This version needs a new licence; customers who already had RiTA SPL receive it at no cost.

1. Write your name (Your name) and your email address, the one you used to buy RiTA SPL (Email address you used to buy RiTA SPL). The picture is an example.
2. Click Send activation request.

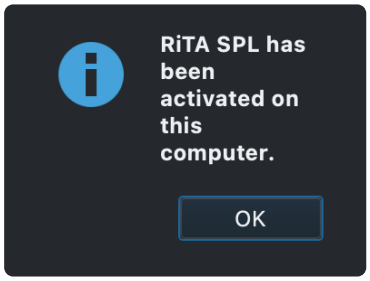


Activation request.

3. The Request sent window appears. You do not need to copy or send anything: the app asks the server by itself and, as soon as the licence is authorized (within about 5 minutes), RiTA SPL activates and confirms it.



Request sent.

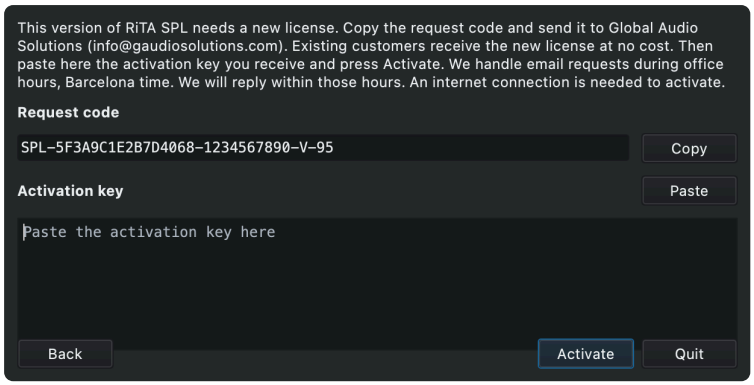


Licence activated.

> **Use the email address you used to buy RiTA SPL:** then the licence is authorized automatically. With another address, a person reviews the request during office hours (Barcelona time), and the window says so (License under review). You can close RiTA SPL while you wait: the next time you open it, it checks the request and, if it has been authorized, activates by itself. If the request is not approved, the app says why and you can send it again (Send again).

Activating by email

If you prefer, or if something goes wrong, click Activate by email (in the request window, or in the waiting window when a warning appears). The Activate License window appears with the request code of your computer (Request code): it identifies the computer and, if you had a previous licence, that one too. Back returns to the request window.



Activate License.

1. Click Copy to copy the Request code.
2. Send an email to info@gaudiosolutions.com with the Request code. We handle emails during office hours (Barcelona time).
3. You will receive a .txt file with the activation key (Activation key). Open it, select all the text and copy it. In the RiTA SPL window, click Paste: the key appears in its box (you can also paste it with Ctrl+V, or Cmd+V on Mac). There is no need to remove greetings, line breaks or spaces: the app cleans them up. Then click Activate. The key is also checked with the server, so an Internet connection is needed.
4. The app confirms that RiTA SPL has been activated on this computer.

> **Important:** the key only works on the computer that sent its Request code; it does not work on another one. If the key is not valid, the window itself says why: it is for another program, it is for another computer, the licence has expired or the key was not copied complete. There is no limit on attempts: correct the key and click Activate again. Quit closes the app without activating.

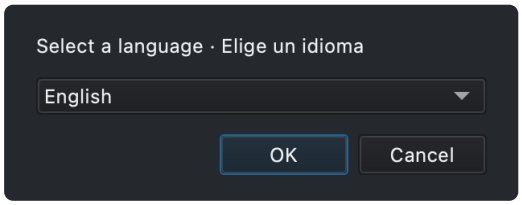
Licence check

Once activated, the app does not ask for the licence again on that computer, not even when installing updates. When it opens, at most once a day, it checks with the server that the licence is still active; you will not notice it. Without Internet it keeps working for up to 30 days (and 200 launches) since the last check. After that it asks to connect: connect the computer to the Internet and click Retry. If the licence has been deactivated or is no longer valid, the app says so and asks you to activate it again.

3.3 DEACTIVATION

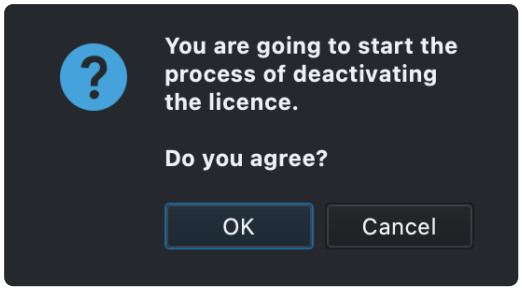
To move the licence to another computer, it must first be deactivated on the computer that has it: menu RiTA SPL > License Deactivation... An Internet connection is needed.

1. Choose the language of the deactivation: English, Español, Português, Français or 中文.



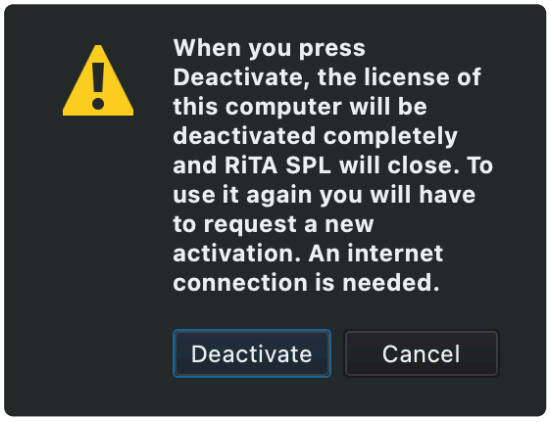
Deactivation language.

2. Confirm that you want to start the deactivation.



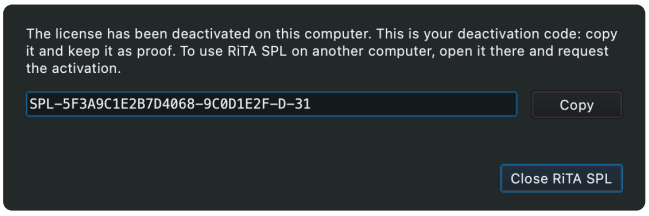
Start of the deactivation.

3. Confirm with Deactivate. Deactivation is final: the app tells the licence server, the licence is removed from this computer and RiTA SPL will close when it finishes.



Confirmation.

4. The app shows the deactivation code. It is only a receipt: there is no need to send it (the server already knows) or to type it on the new computer. If you like, copy it with Copy and keep it. Click Close RiTA SPL.



Deactivation code.

5. On the new computer, install RiTA SPL and activate it as the first time (section 3.2): with your name and your email address.

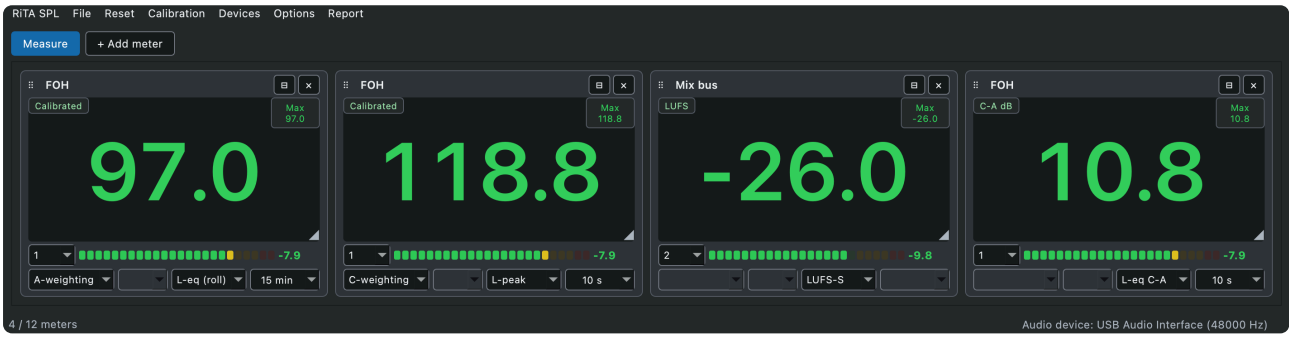
> Without an Internet connection the licence is **not** deactivated: the app says so and it stays active on this computer. If you cancel before confirming Deactivate, the licence also stays active.
>
> **Always deactivate the licence before uninstalling, formatting or changing computer:** otherwise no new licence will be issued. **Theft or breakdown:** if the computer is lost, stolen or broken and you cannot deactivate the licence, to obtain a new one you will have to provide proof (for example, the police report or the repair report) to info@gaudiosolutions.com.

4. GETTING STARTED

RiTA SPL always opens with the last configuration: what there was when the app was closed. The first time, it opens with the initial setup (4 meters, factory limits and the system sound card). To go back to it use **File > New**, and to open a project, **File > Open Project...**

If the sound card you were using is not connected, the app opens the system one and tells you. Choose the right one in Devices > Audio device and sample rate...

The main window opens and the meters start measuring.



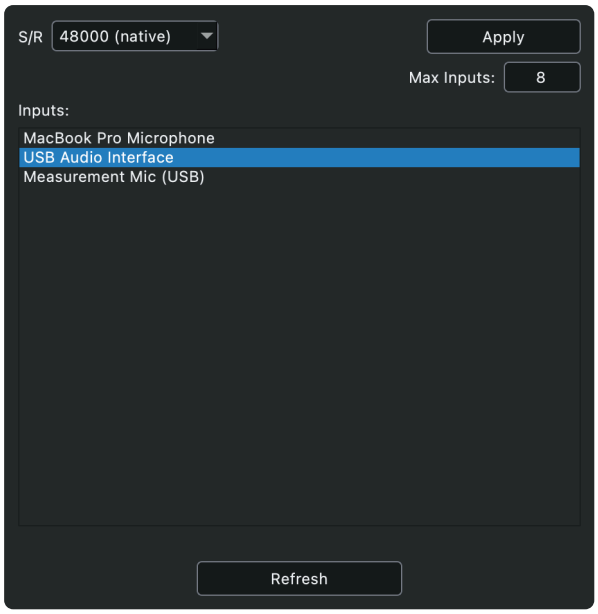
The main window with four meters.

1. Choose the sound card in Devices > Audio device and sample rate... The app remembers the last one you used.
2. Set each meter's channel, weighting, measurement type and interval. To change its name (FOH, Sub, Mix bus...), click on it.
3. Calibrate the microphone channels (chapter 7). While a channel is not calibrated, its meter warns in amber and the value is not a real level.
4. With **Measure** in blue, the app measures and records. Click Measure to pause and again to continue.

- **+ Add meter** adds a meter (up to 12).
- Drag a meter by its grip (⠿) to move it to another position.
- The bottom bar shows how many meters there are, the sound card and its sample rate, and the warning "Uncalibrated inputs" if an SPL meter is not calibrated.

4.1 SOUND CARD

Devices > Audio device and sample rate... Choose the input and the sample rate (S/R) and click Apply. The card's native rate is marked "native" and is the recommended one. Max Inputs shows how many channels the card has. Refresh searches for sound cards again (for example, after connecting a USB one). On Windows there is also an ASIO tick box: when ticked, only the cards with an ASIO driver are listed; when not, the normal Windows ones.



Sound card.

4.2 PROJECTS

A project (.ritaspl) saves the setup of an event: the meters, their layout, the sound card, the colour limits and a copy of the calibration. It does not save the recording.

- File > Save Project and Save Project As... save the project; File > Open Project... and Recent Projects open it. Its name appears in the title bar.
- File > New goes back to the initial setup.
- If the project's sound card is not connected, the system card is used and the app tells you.
- When a project is opened on another computer, channels without calibration use the project's calibration. If a channel is already calibrated with a different value, the app asks which one to use.
- When the app closes it asks nothing: the setup and the recording are saved automatically, and everything is the same when you open it again. The project is only saved when you want, with File > Save Project.

4.3 LANGUAGE

RiTA SPL comes in five languages: English, Español, Português, Français and 中文. The first time, it starts in English. To change it, open RiTA SPL > Language and choose yours: the whole app changes at once, without restarting, and remembers it for the next time. Each language appears in the list under its own name.



RiTA SPL > Language > Español: the app in Spanish (RiTA SPL > Idioma).

These stay in English, on purpose:

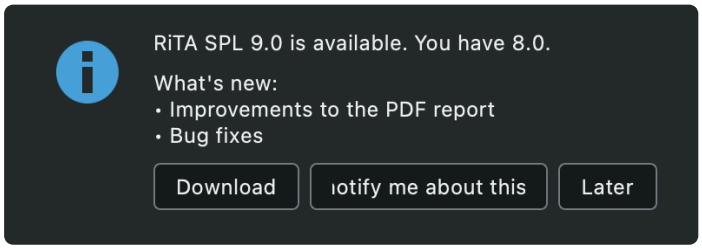
- The weighting (A-weighting...), Slow and Fast, and the codes of the measurement types (L-eq, LUFS-M...): they are technical terms. The full name of each type, shown when its drop-down list opens, is translated.
- The licence agreement.
- The PDF report and the CSV file.
- The labels drawn inside the graph.

The windows for opening and saving files appear in the language of the system, not in the language of the app. The licence deactivation (section 3.3) asks for its own language when it starts; the language of the app is already selected.

> **This guide names menus, buttons and messages in English**, as they appear the first time, and almost all its screenshots are in English. In another language the names change (in Spanish, RiTA SPL does not change, Language is Idioma, Options is Opciones and Report is Informe), but every option stays in the same place.

4.4 UPDATES

RiTA SPL tells you when there is a new version. At startup, a couple of seconds after the window opens and without delaying anything, it checks over the Internet which is the latest version. If it is newer than yours, the Update available message appears with the new version, yours and what has changed (What's new):



Update message. The version and the list of changes are an example.

- **Download** opens the download page in the browser. Download the installer for your computer and install it as in chapter 2: there is no need to uninstall first or to activate the licence again.

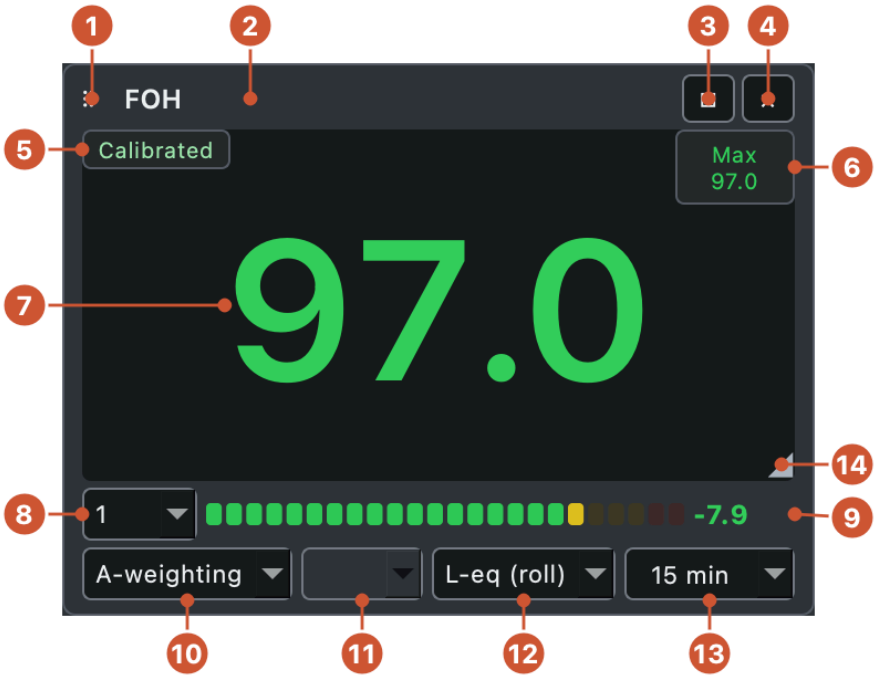
- **Later** closes the message. It will appear again the next time you open the app.
- **Do not notify me about this version**: the app does not tell you about that version again, but it does about later ones.

The app only checks which is the latest version: it does not download or install anything by itself, and it does not send any data. Without an Internet connection it says nothing and everything else works the same.

In the RiTA SPL menu, below About..., there are two options:

- **Check for Updates...** checks at that moment and always answers: with the message above if there is a new version (even if you asked not to be notified about it), with “You have the latest version of RiTA SPL (x.y.z).” if you have the latest one, or with “Could not check for updates. Check the internet connection and try again.” if it could not check.
- **Check for Updates at Startup** is the automatic check at startup. It is ticked by default; untick it if you do not want the app to do it.

5. THE METER



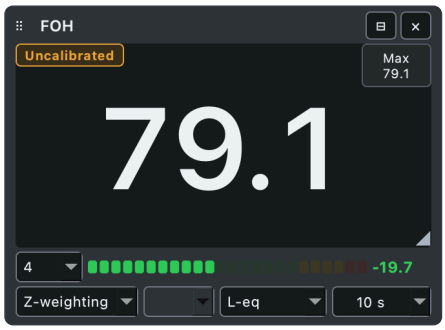
The parts of a meter.

#	ELEMENT	WHAT IT DOES
1	Grip	Drag it to move the meter to another position.
2	Name	Click to type a name: FOH, Sub, Mix bus...
3	Compact	Shows only the number, larger, with a line that sums up the setup.
4	Close	Removes the meter.
5	Calibration	Channel status: Uncalibrated (amber), Calibrated, Sensitivity or the name of the imported file; for signal measurements, the unit (LUFS, dBTP, dBFS). Click to calibrate, import, export or remove the calibration, or for Input gain. Export and remove only work when the channel is calibrated (for signal measurements they are greyed out).
6	Max	The highest value since the last reset, with the same colours as the value (chapter 8). One click sets it to zero without restarting the measurement.
7	Value	The measurement. Its colour changes with the limits (chapter 8). Double-click: restarts the measurement of this meter (section 5.2).
8	Channel	The sound card input this meter measures.
9	LED bar	Input peak, from −36 to 0 dBFS. Use it to set the gain: red means clipping.
10	Weighting	Z, A, C or K. Disabled if the measurement type does not use it.

#	ELEMENT	WHAT IT DOES
11	Slow / Fast	Time weighting: Slow 1 s, Fast 125 ms. Only in L-time and L-max; disabled in the other types because they do not use it.
12	Type	What is measured (chapter 6).
13	Interval	The time T of the measurement, from 1 s to 24 h. Choose one from the list or type, for example, 90 s, 15 min or 1 h.
14	Size	Drag it to make the meter take up more cells; the number grows.



Meter in compact mode.



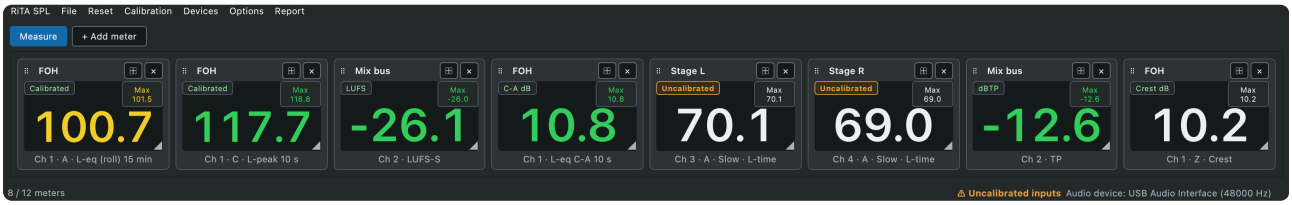
Uncalibrated channel: the value is not a real level.

5.1 LAYOUT AND WINDOW SIZE

The meters are placed in a grid. In Options > Layout you choose:

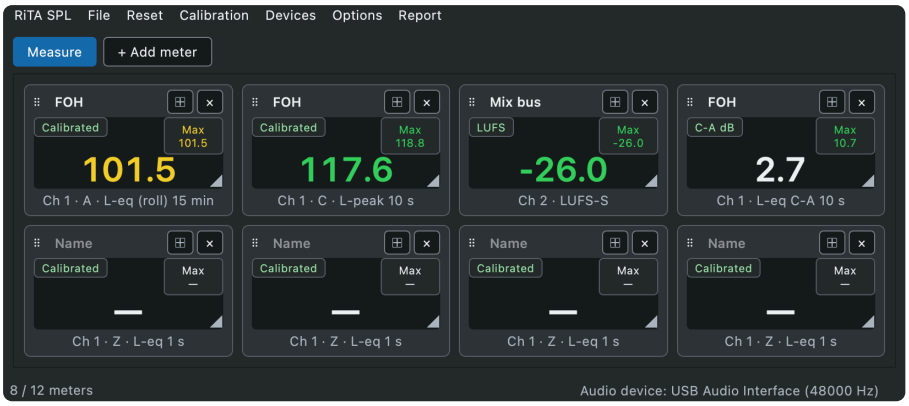
- **Horizontal** or **Vertical**.
- **Meters per row (Horizontal)**: 4, 6, 8 or 12 meters per row. With 8 per row, 8 meters fit in one line on a laptop.
- **Meters per column (Vertical)**: Auto (as many as fit on the screen), 4, 6 or 8.

The choice is remembered and saved in the project.



Eight meters in one row (Meters per row: 8).

When the window is resized, all the meters grow or shrink equally, and the number grows or shrinks with them.

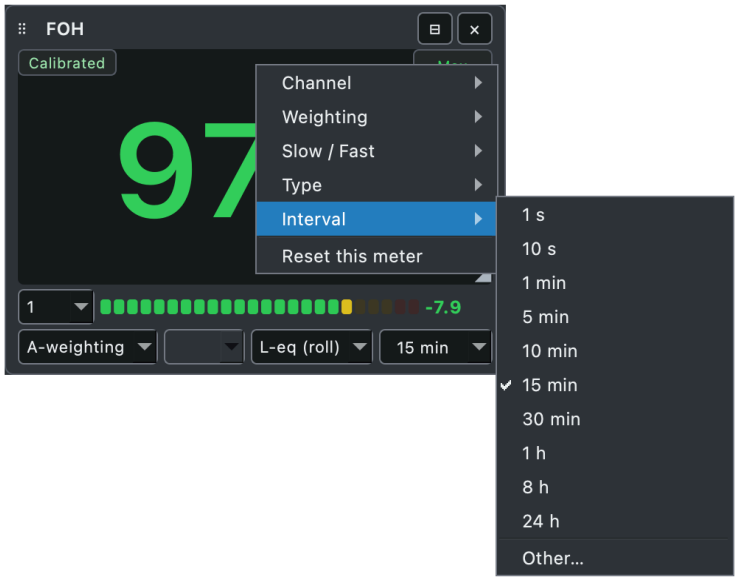


Small window: the meters show only the number.

> When a meter becomes too small, it shows only the number and a line with its setup. To change its settings, **click that line or right-click the meter** (section 5.2).

5.2 CHANGING THE SETTINGS AND RESETTING A METER

Right-click anywhere on a meter, or click the line under the number when the meter is small or compact. A menu with its settings appears:



The settings menu of a meter, with the Interval submenu.

- **Channel**, **Weighting**, **Slow / Fast**, **Type** and **Interval** (with **Other...** to type another interval). The current option is ticked, and what does not apply to the measurement type is disabled. It does the same as the drop-down lists.
- **Reset this meter**: restarts the measurement of this meter (its Leq, peak, LUFS-I...) and its Max. The other meters carry on.

You can also reset a meter by **double-clicking its number**. While recording, a marker “Reset: meter name” is left on the graph and in the report, so you can see why that curve starts again. To reset all of them at once there is Reset > Reset Leq Buffer.

6. MEASUREMENT TYPES

The SPL types use the microphone and its calibration. Loudness (LUFS), true peak (TP) and dBFS measure the electrical signal, for example the console output on a line input, and do not use calibration. When the drop-down list is open, each type appears with its full name.

TYPE	WHAT IT IS	USE IT FOR
L-time	The level right now, with Slow or Fast time weighting.	Watching the level live (LAS, LAF).
L-eq	The average (equivalent) level of blocks of T seconds: it builds up and starts again when T is reached.	Leq of 1 s or 1 min.
L-peak	The highest peak in the interval T.	Peaks: LCpeak of 10 s.
L-max	The highest Slow / Fast level in the interval T.	LAFmax, LASmax.
L-eq (roll)	The average level of the last T seconds, updated all the time.	Limits: 15-minute LAeq.
L-eq C-A	LCeq − LAeq of the last T seconds: how much low end there is.	Keeping the low end under control.
Crest	Crest factor: how far the peaks stand out above the average level of the last second, in dB.	Seeing the dynamics: higher means a more dynamic signal.
LUFS-M / S / I	EBU R 128 loudness: last 400 ms, last 3 s, and integrated since the reset (pauses not counted).	The mix, for example −23 LUFS.
dBFS	The digital peak of the input.	Setting the gain.
TP	True peak of the last second, in dBTP.	Clipping between samples.

6.1 LEQ, MAXIMUM AND PEAK: THE DIFFERENCE

- **L-time** goes up and down with the music: it is what you “hear” at each moment.
- **L-eq** is the energy average over a time: one minute at 100 dB and another at 90 dB do not give 95 dB but 97.4 dB, because the loud moments weigh more. It is the measurement used by almost every legal limit.
- **L-eq (roll)** is the same Leq but always over the last T seconds: with T = 15 min it shows at every moment where the 15-minute LAeq stands.
- **L-max** is the highest L-time value in the interval; **L-peak** is the instantaneous peak of the waveform, always higher than L-max.
- On the graph, L-peak and L-max look like steps that only go up until the interval starts again. For the graph, use 10 s.

6.2 WEIGHTINGS AND TIMES

- **A**: imitates the ear at moderate levels; it is the one used by almost every legal limit, dB(A). It strongly reduces the low frequencies.

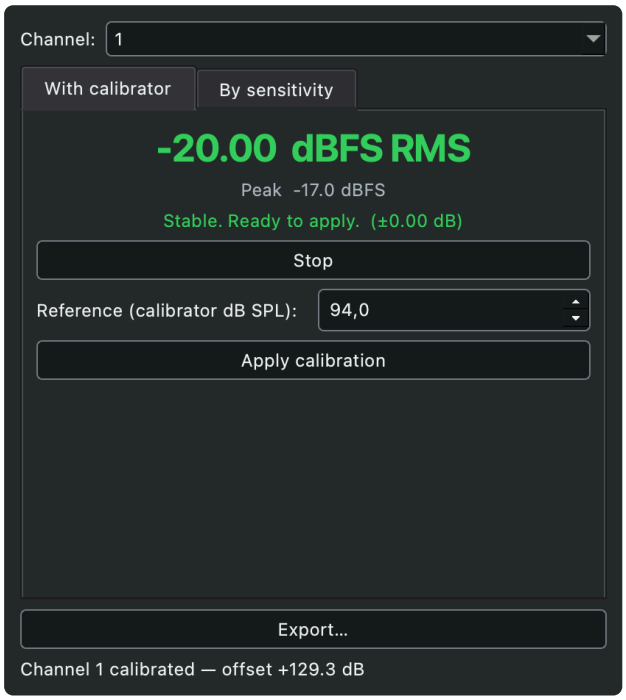
- **C**: almost flat; it includes the low frequencies. Used for peaks (LCpeak) and for low-frequency limits.
- **Z**: flat, no weighting.
- **K**: the loudness (LUFS) curve, to compare with it.
- All of them are 0 dB at 1 kHz: a 1 kHz calibrator reads the same with any of them.
- **Slow** (1 s) gives a steady reading; **Fast** (125 ms) follows quick changes better. They only apply to L-time and L-max.

> **A complete setup for live sound:** L-time A Slow, L-eq (roll) A 15 min and L-peak C 10 s on the FOH microphone; L-eq C-A 10 s for the low end; and LUFS-S and TP on the mix. The 15-minute LAeq tells you what has happened; the console loudness warns you of what is about to happen.

7. CALIBRATION

Calibration belongs to the sound card input (card + channel): every meter on that channel uses it, and it is remembered when the app is opened again. While a channel is not calibrated, its SPL meters warn in amber and their value is not a real level.

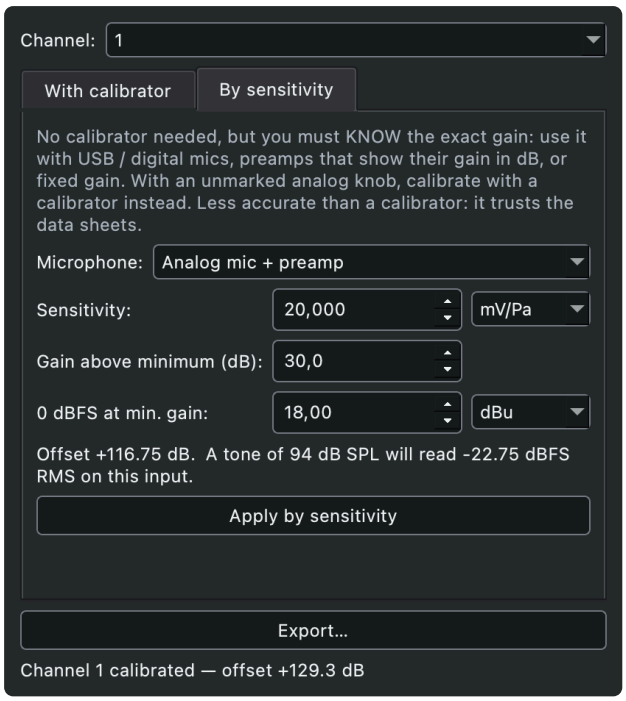
7.1 WITH A CALIBRATOR (RECOMMENDED)



Calibration > Calibrate... · With calibrator.

1. Fit the calibrator on the microphone and switch it on (94 or 114 dB SPL at 1 kHz).
2. Open Calibration > Calibrate..., choose the channel and click Measure. The large number is the RMS level; below it, the peak, so you can leave gain headroom.
3. Wait for “Stable. Ready to apply” (about 3 s with a steady reading). The app warns if there is no signal or if the input is clipping.
4. Type the calibrator level in Reference and click Apply calibration.

7.2 FROM THE MICROPHONE SENSITIVITY (WITHOUT A CALIBRATOR)



By sensitivity tab.

The calibration is calculated from the manufacturer's data. It only works if you know the exact gain: USB or digital microphones, or preamps that show the gain in dB. With an unmarked analogue gain knob, use a calibrator.

- Analogue microphone: the sensitivity (mV/Pa or dBV/Pa), the preamp gain above its minimum, and the level that takes the input to 0 dBFS with the gain at minimum.
- Digital or USB microphone: the level it gives at 94 dB SPL, stating whether it is peak or RMS.

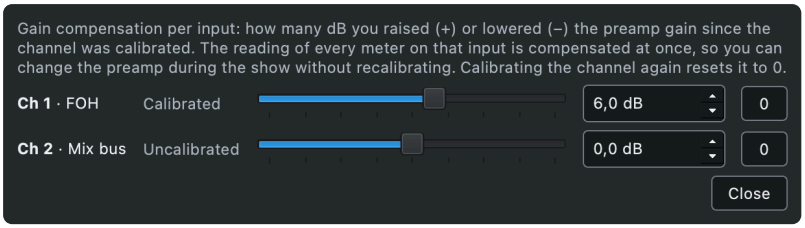
7.3 CALIBRATION FILES

From the calibration chip of a meter (element 5):

- **Import calibration file...** calibrates its channel from a file, including the .txt files of the previous RiTA SPL.
- **Export calibration...** saves the channel's calibration to a file.
- **Remove calibration** leaves the channel uncalibrated.

Export and Remove are only active when the channel is calibrated; for the signal measurement types (LUFS, C-A, dBFS, TP, Crest) they are greyed out, because those types do not use calibration.

7.4 GAIN COMPENSATION (INPUT GAIN)

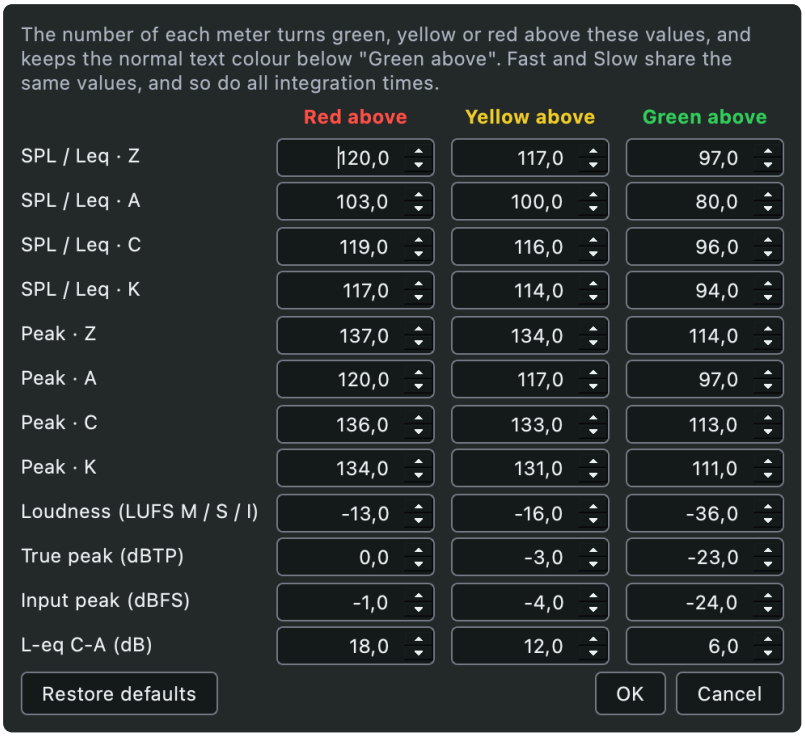


Calibration > Input gain...

If during the show you raise or lower the preamp gain of an input that is already calibrated, there is no need to calibrate again: enter here how many dB you changed it (+6 if you raised it 6 dB, −3 if you lowered it 3) and the reading is corrected at once.

- It affects every meter on that input. From −40 to +40 dB in 0.5 dB steps; the 0 button removes it.
- The meter chip shows it (for example “Calibrated · +6 dB”).
- Calibrating the channel again sets it back to 0.
- It does not affect LUFS, TP or dBFS: they measure the signal as it arrives.

8. COLOURS AND LIMITS



Options > Meter colors...

The number of each meter, and its Max, turn green, yellow or red above these values, and stay in the normal colour below “Green above”. There is one row per measurement type and weighting. The same limits are shown on the graph and count the time in yellow and in red in the report. Restore defaults brings back the factory values.

ROW	RED ABOVE	YELLOW ABOVE	GREEN ABOVE
SPL / Leq · Z	120	117	97
SPL / Leq · A	103	100	80
SPL / Leq · C	119	116	96
SPL / Leq · K	117	114	94
Peak · Z	137	134	114
Peak · A	120	117	97
Peak · C	136	133	113
Peak · K	134	131	111
Loudness (LUFS M / S / I)	–13	–16	–36
True peak (dBTP)	0	–3	–23

ROW	RED ABOVE	YELLOW ABOVE	GREEN ABOVE
Input peak (dBFS)	–1	–4	–24
L-eq C-A (dB)	18	12	6

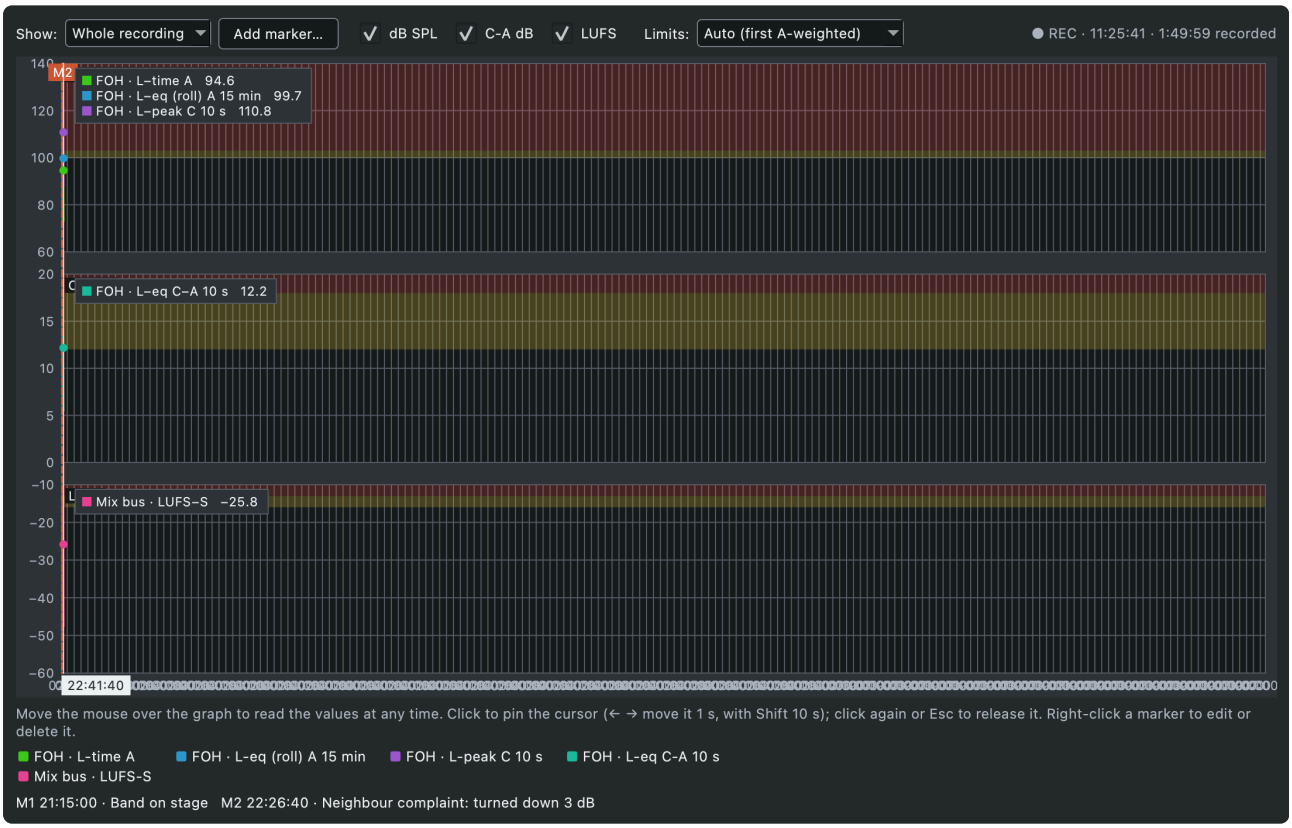
9. RECORDING AND GRAPH

While Measure is on, RiTA SPL records the value of every meter each second, with the time of day. Everything is written to disk straight away: if the computer crashes, opening the app again continues the same recording.

- Opening a project or File > New start a new recording. Before that, if something has been recorded, the app offers to export the report.
- Reset > Reset recording… starts a new recording whenever you want.
- No recording is lost: when a new one starts, the previous one is archived. A 4-hour recording with 12 meters takes about 5 MB.

9.1 THE GRAPH

Report > Show graph… opens the graph, which is updated every second without stopping the measurement.



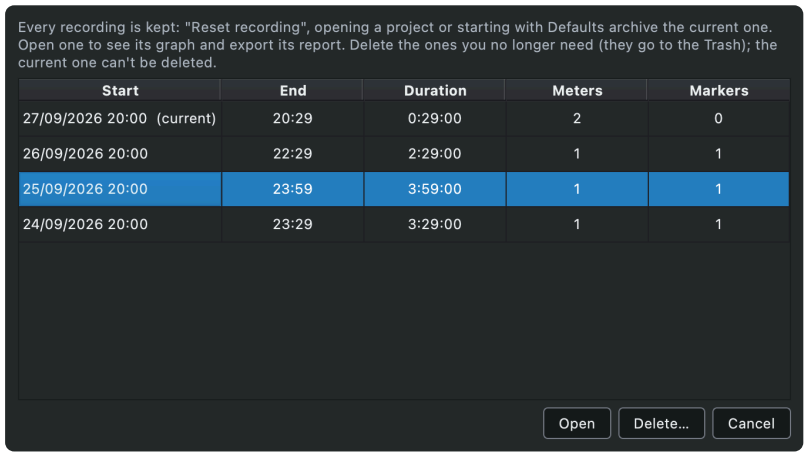
Report > Show graph… with the cursor pinned and two markers.

- At the top right, "● REC" blinks with the time and the recorded time ("▮▮ PAUSED" if Measure is off). Show chooses the last 15 min, the last hour, 4 hours or the whole recording.
- There is one panel per unit (dB SPL, C-A, Crest, LUFS, dBFS / dBTP); the tick boxes at the top choose which ones are shown. The legend lists each meter once.

- **Showing only some curves:** click a meter in the legend to hide its curve (it turns grey and struck through) and click again to show it. This way you can leave, for example, only the A curve in the dB SPL panel. It is remembered for next time, and the PDF report always has all the curves.
- The yellow and red areas are above the limits. The grey bands are periods without recording.
- **Cursor:** moving the mouse shows the time and the value of every meter. One click pins it; the ← → arrows move it 1 s (10 s with Shift); another click or Esc releases it.
- **Markers:** Report > Add marker now… marks this moment with a note (“turned down after a neighbour complaint”). On the graph, Add marker… marks the cursor position. Right-click a marker to edit or delete it.

9.2 PREVIOUS RECORDINGS

Report > Open recording… lists the saved recordings, with their start, end, duration, meters and markers.

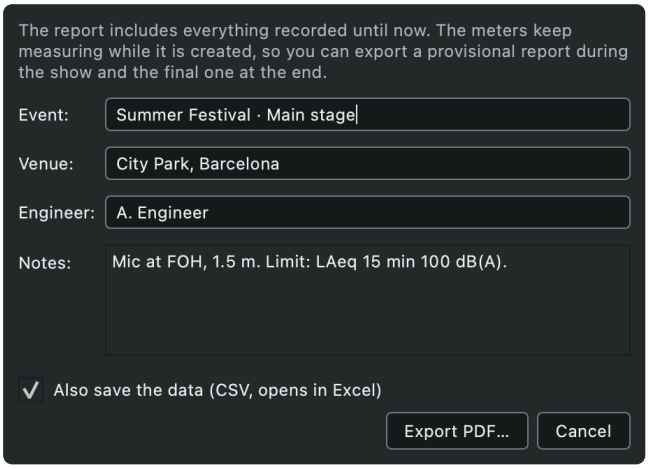


Report > Open recording…

- **Open** opens its graph, with buttons to export its PDF and CSV.
- **Delete…** deletes the selected recordings (hold ⌘ or Ctrl to select several). It asks for confirmation and moves them to the Trash (Recycle Bin on Windows), where they can be recovered. The current recording cannot be deleted.

10. PDF REPORT AND DATA

Report > Export report (PDF)... creates the report with everything recorded so far, without stopping the measurement: you can produce a provisional one during the show and the final one at the end. The window asks for the event, the venue, the engineer and notes, and offers to save the data as CSV too.



Report details.

The report includes:

- A cover with the event, the venue and the engineer.
- A measurement summary: start, end, duration, time not recorded and sound card, with a warning if any meter was not calibrated.
- The complete graph, with the pauses and the markers.
- A table per meter: input, calibration, minimum, maximum, average and time in yellow and in red.
- The markers, with the value of every meter at that moment, and the pauses.



First page of the report.

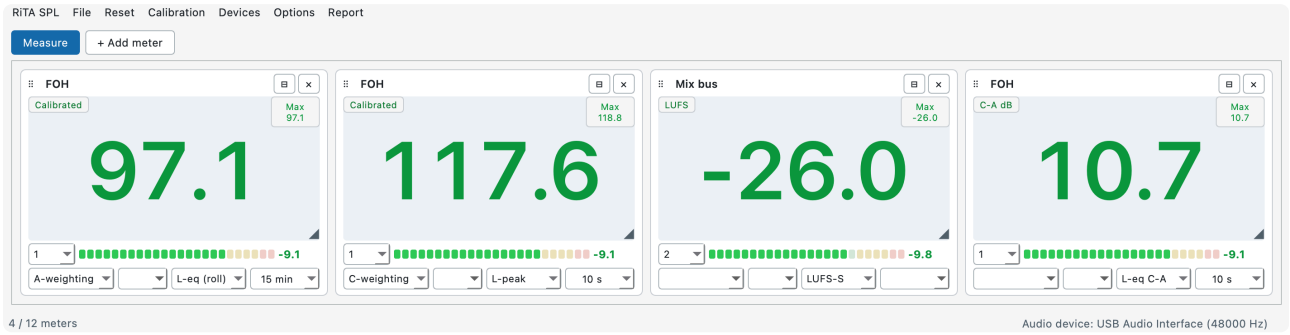
Report > Export data (CSV)… saves one column per meter and one row per second; it opens in Excel or Numbers.

11. MENUS AND SHORTCUTS

On Mac the shortcuts use ⌘ and on Windows, Ctrl. About..., the update options, License Deactivation..., Language, Theme and Quit are in the RiTA SPL menu, the first one in the menu bar. The table names the menus in English; in another language (section 4.3), every option is in the same place.

MENU	OPTION	SHORTCUT	WHAT IT DOES
RiTA SPL	About...		App version.
RiTA SPL	Check for Updates...		Checks now whether there is a new version.
RiTA SPL	Check for Updates at Startup		Turns the automatic check at startup on or off.
RiTA SPL	License Deactivation...		Deactivate the licence to move it to another computer.
RiTA SPL	Language		The language of the app: English, Español, Português, Français or 中文.
RiTA SPL	Theme		Dark or Light.
RiTA SPL	Quit	⌘Q	Quit.
File	New (default configuration)	⌘N	The initial setup.
File	Open Project... / Recent Projects	⌘O	Open a project.
File	Save Project / Save Project As...	⌘S / ⇧⌘S	Save the project.
Reset	Reset Max	⌘R	Sets the Max of every meter to zero.
Reset	Reset Leq Buffer	⌘B	Restarts every measurement (Leq, peak, LUFS-I...).
Reset	Reset recording...		Starts a new recording; the previous one is archived.
Calibration	Calibrate...		Calibrate a channel.
Calibration	Input gain...		Compensate a change of preamp gain.
Devices	Audio device and sample rate...		Sound card and sample rate.
Options	Layout		Horizontal or Vertical, and meters per row or per column.
Options	Meter colors...		Colour limits.
Report	Show graph...	⌘G	The live graph.
Report	Add marker now...	⌘M	Marks this moment with a note.
Report	Export report (PDF)...	⌘P	The PDF report (and CSV).

MENU	OPTION	SHORTCUT	WHAT IT DOES
Report	Export data (CSV)...		The recorded data, for Excel.
Report	Open recording...		Open or delete previous recordings.



RiTA SPL > Theme > Light.

12. TROUBLESHOOTING

If the problem is not solved, write to info@gaudiosolutions.com.

PROBLEM	SOLUTION
macOS will not open the installer.	System Settings > Privacy & Security > Open Anyway.
Windows shows "Windows protected your PC".	More info > Run anyway.
Activation says the key is not valid.	The window says why. If it is for another program or another computer, the key does not match the Request code the app shows: send it again to info@gaudiosolutions.com and ask for a new key. If it has expired, write to Global Audio Solutions. If it was not copied complete, open the .txt file again, copy all its text (the app cleans up greetings and spaces) and click Paste again.
When activating or opening, it says it cannot connect to the licence server.	Check the Internet connection (and that no firewall or proxy blocks gaudiosolutions.com) and try again. To activate, you can also use Activate by email (section 3.2). With the licence already activated, the app keeps working without Internet for up to 30 days.
The activation request takes long or shows License under review.	If you used an address other than the purchase one, a person reviews it during office hours (Barcelona time). You can close RiTA SPL: when you open it again it will activate by itself once authorized. If you are in a hurry, write to info@gaudiosolutions.com or use Activate by email.
When opening, it says the licence was deactivated or is no longer valid.	The licence was deactivated (for example, from another computer) or cancelled. Request the activation again (section 3.2) or write to info@gaudiosolutions.com.
The meters do not move or the bar says "No audio device (demo)".	Microphone permission is missing or there is no sound card. Mac: System Settings > Privacy & Security > Microphone. Windows: Settings > Privacy & security > Microphone. Choose the card in Devices.
The meter says Uncalibrated.	Calibrate that channel (chapter 7). Without calibration, the value is not a real level.
The calibration cannot be applied.	Wait for "Stable". If it says No signal, check the channel, calibrator and gain; if it clips, lower the gain.
On opening, the app says the sound card is not connected.	Connect it and choose it in Devices > Audio device and sample rate... Meanwhile the app uses the system sound card: check its calibration before measuring.
On Windows, with the ASIO box ticked no sound card appears.	Install the card's ASIO driver and switch the card on before opening RiTA SPL. If it still does not appear, untick ASIO and choose the card in the normal list.
The number shows "—".	There is no reading yet (for example, until the first interval ends) or no signal is arriving.

PROBLEM	SOLUTION
The LED bar reaches red.	The input is clipping: lower the preamp gain and enter it in Calibration > Input gain...
An L-peak or L-max looks flat on the graph.	It is the maximum of a long interval; use 10 s.
The app is in a language I do not understand.	Open the first menu in the menu bar (RiTA SPL) and, inside it, the fifth option (Language), the first one with an arrow: About..., Check for Updates..., Check for Updates at Startup and License Deactivation... come before it. Each language appears under its own name (section 4.3).
Check for Updates... answers "Could not check for updates".	There is no Internet connection or the latest version could not be checked. Check the connection and try again. The app works the same without this check.
"Unexpected error" appears.	The meters keep working. Send the text from Show Details to info@gaudiosolutions.com.

13. TECHNICAL DATA

FEATURE	VALUE
Frequency weighting	A, C, Z (IEC 61672-1) · K (ITU-R BS.1770)
Time weighting	Fast 125 ms · Slow 1 s
Loudness	EBU R 128 / ITU-R BS.1770: Momentary, Short-term, Integrated and true peak
Intervals	1 s to 24 h
Meters	Up to 12
Recording	1 value per second per meter
Reports	PDF and CSV
Languages	English, Español, Português, Français and 中文

RiTA SPL is not a type-approved class 1 sound level meter: for measurements with legal value, check against a type-approved sound level meter.

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