

Global Audio Solutions

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RiTA OPERATOR ON LINE

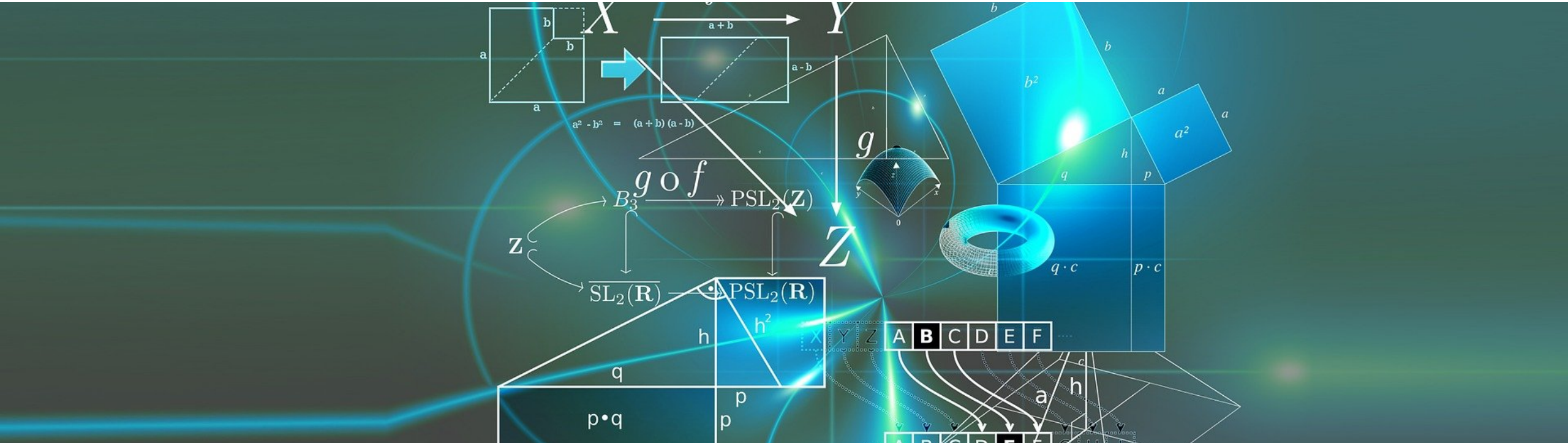
RiTA Operator on line

The RiTA© Operator course studies the concepts and functionalities of RiTA© software. It explores the differences of the programme and its applications, always associating theoretical concepts with practice.

At the end of the training, it allows the full use of all the functions and display modes to get the most out of the analyser, both in the field of work and in the didactic field. The combination of analysis and signal processing techniques allows the technician or system engineer to analyse large loudspeaker systems without the need to continuously generate a test signal, thus reducing acoustic fatigue.

All study modules are conducted live virtually and with interaction between the student and the teacher.

All sessions are recorded and shared privately with participants for study.



Syllabus

Setup and FFT analysis

- ✳ Audio interface setup
  - Diagram
  - Sampling Rate
  - Devices
  - Measurement modes: 1 /. Channels
- ✳ Time vs frequency domain
  - Single channel
  - Dual channel
- ✳ Analysis modes / Display types
  - Spectrum
  - Transfer Function
  - Impulse response
- ✳ Spectrum
  - FFT (Fast Fourier Transform)
  - Resolution
  - FIFO averaging
  - Frequency resolution and TC
- ✳ Monitor Level
  - dBFS RMS / Peak
  - Signal to Noise Ratio
- ✳ Signal generator
  - ESS (Exponential Sine Sweep)
  - Multi Sweep
  - Pink noise
  - External signal / Music
- ✳ Measurement engines
  - Channel management
  - Overwrite



Syllabus

Transfer function

- ✳ Setup
  - Dual-channel diagram
- ✳ Transfer function
  - Magnitude
  - Phase
- ✳ Octave resolution
  - Fixed Point per Octave
  - Fixed FFT size
  - Smoothing
- ✳ Impulse response
  - Linear / Log / ETC
- ✳ Synchronization
  - Find Delay / Clear Find
- ✳ Coherence
  - Causal / non-causal relationship
  - Interpretation
  - Blanking Coherence
- ✳ Memory bank
  - Impulse Response
  - Snapshots / Clear Selected
  - Spectrum RTA
- ✳ Measurement manager
  - Import / Export / Load / Save
  - .rita projects
- ✳ Global functions
  - Sum
  - Save All / Export All
  - AVG / Sync All
  - Clear DSP / Delays



Syllabus

Virtual DSP and automatic tools

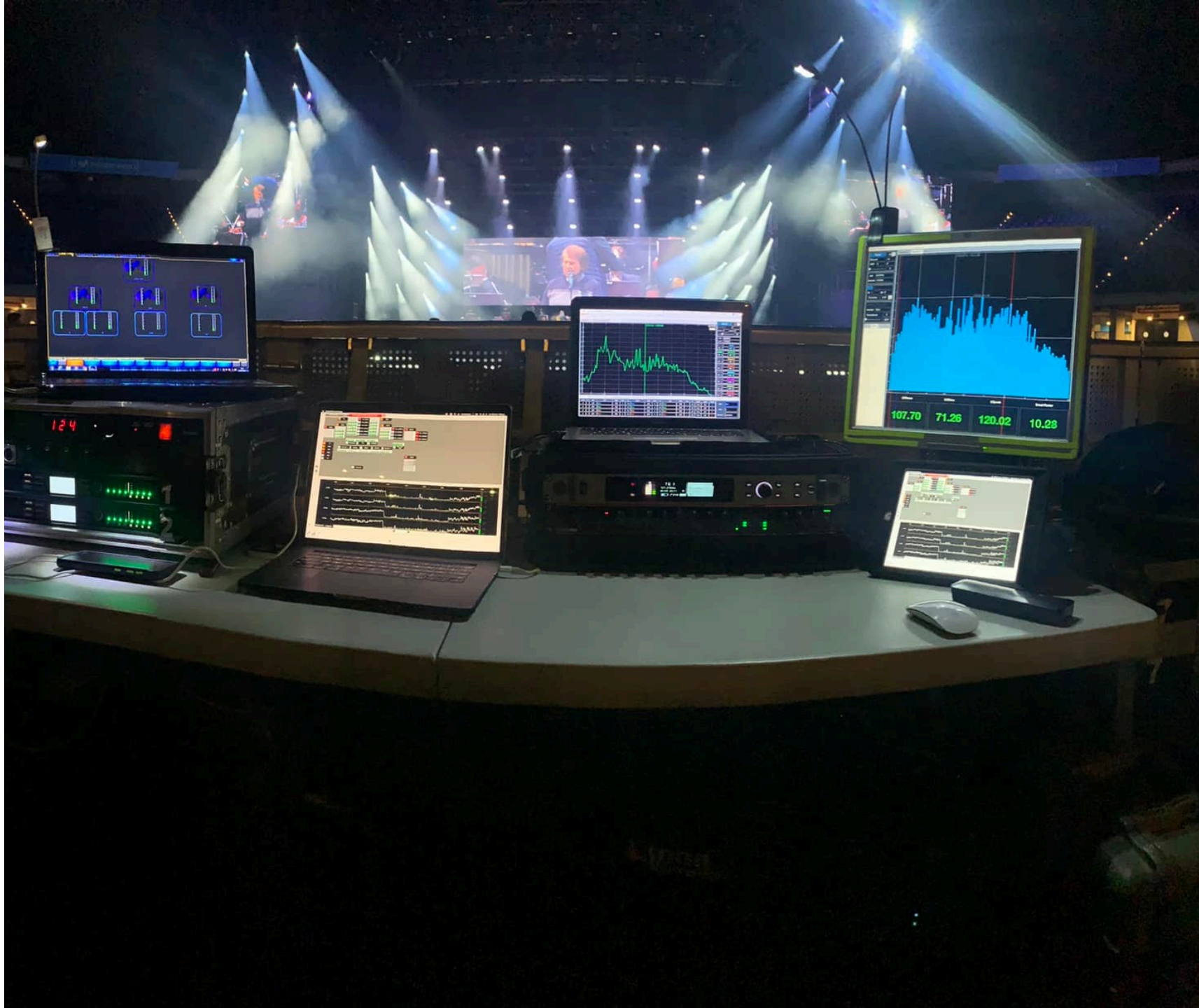
- ✳ Virtual DSP
  - Filters and equalization
  - Equalizer: PEQ / Graphic EQ / APF
  - FIR: X-Over / AEQ / Import
  - Import IIR / Export FIR
  - Copy DSP / Link DSP
  - DSP Type: RiTA / others
  - Impulse import
  - Signal summation
  - Linearity and time invariance
- ✳ Auto EQ
  - IIR / FIR / IIR+FIR / Globcon
  - Targets
- ✳ Auto Align
  - LF+HF / HF+HF
  - Gradient / End Fired
- ✳ External Control
  - Processors
  - Mute groups
- ✳ DSP PDF report
- ✳ Remote control
  - Mobile app / Web client



Syllabus

Auxiliary functions

- ✳ Spatial averaging
  - Diagram
  - Global synchronization
  - Average impulse
  - Tuning management
  - Processing
  - AVG Alignment wizard
- ✳ Averaging options
  - Complex mode
  - Absolute mode
  - dB mode
- ✳ Single-channel measurements
  - Internal reference
  - Latency calculation
  - Verification
- ✳ Microphone calibration
  - File import
  - File creation
  - Polarity
- ✳ RiTA SPL (SPL measurement)
  - L-time / L-eq / L-max / L-peak
  - L-eq (roll): 15-min LAeq
  - L-eq C-A: low-end control
  - A / C / Z weighting
  - Slow / Fast
  - Calibration: calibrator or sensitivity
  - Colors and limits
  - Recording and graph
  - PDF and CSV report



Syllabus

Exercices

- ✳ Measuring a digital processor
  - Linearity check
  - Time-invariance check
- ✳ Measuring a loudspeaker response
  - Level adjustment
  - Equalization
  - Filtering
  - Auto EQ
- ✳ PA / SUB alignment
  - Frequency response
  - Relative amplitude
  - Relative phase
  - Polarity and relative phase
  - Auto Align
- ✳ Optimization with spatial averaging
  - Absolute synchronization
  - Average impulse
  - Processing
  - Verification
  - AVG Alignment wizard



RiTA Operator on line

The duration of the course is 5 days / 3 hours per day live and with teacher-student interaction using the zoom platform.

Timetable: 17:00h Central European Time (CET) see calendar

Each block begins with a theoretical explanation of the content to be covered, exercises and questions at the end of the course.

All participants who do not have an official RiTA© software licence will be provided with an educational version free of charge (the educational version allows to follow efficiently all the exercises proposed during the course, but does not allow to perform real measurements).

At the end of each day, the video of the session is shared with the participants.

Course price:

- Full course: 170€.
- Complete course + RiTA software: 380€.

The payment method is through the website by credit card, bank transfer or PayPal.

For any questions or queries please contact Global Audio Solutions at the following email address: info@gaudiosolutions.com



Calendar

16/11/26	17/11/26	18/11/26	19/11/26	20/11/26	21/11/26	22/11/26
23/11/2026 17:00h	24/11/2026 17:00h	25/11/2026 17:00h	26/11/2026 17:00h	27/11/2026 17:00h	28/11/26	29/11/26
30/11/26	01/12/26	02/12/26	03/12/26	04/12/26	05/12/26	06/12/26