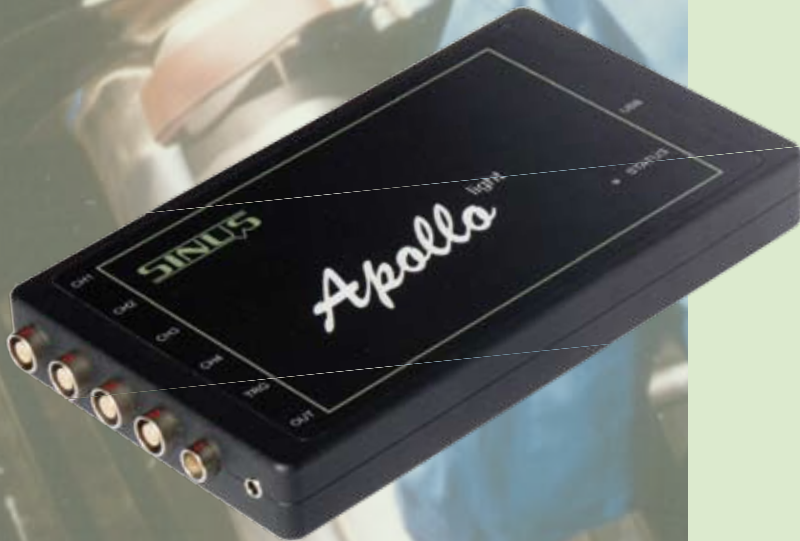


ApolloTM light

*The light version of our
black box acoustic analyzer -
especially handy and robust -
with USB Interface*



- Sound level measurement
- Frequency analysis
- Signal recording
- Human vibration measurement
- Pass-by noise measurement
- Building acoustics
- Machine vibration measurement
- Modal analysis
- Order tracking analysis
- Operational vibration analysis

General technical specification of APOLLO_light data acquisition box

The Apollo_light is compatible to our established Apollo_box and Soundbook Analyzer, but without SLOW channels, SYNC port and AUX port. This reduction to main functions allows us to reduce, dimensions, power consumption and price. We offer following versions with 2, 4 and 8 channels with different connectors (see following table).

| Version | Apollo_lt_2L | Apollo_lt_2B | Apollo_lt_4L | Apollo_lt_4B | Apollo_lt_8C |
|-----------------|--------------|--------------|--------------|--------------|--------------|
| Order number | 908500.8 | 908501.6 | 908502.4 | 908503.2 | 908504.0 |
| Input connector | 2x LEMO7 | 2x BNC | 4x LEMO7 | 4x BNC | 8x NIM-CAMAC |

The Apollo_light is able to operate with any Windows-based PC (or Tablet) via USB 2 or USB 3 interface. We recommend to use a PC with Windows7 or higher.

Input channels 1-2/4/8

| | |
|-------------------------|--|
| Resolution | 24-bit |
| Real-time bandwidth | DC ... 20 kHz @ 2 ... 8 channels |
| Dynamic range | 110 dB |
| Random noise | < 3 μ V(A), < 6 μ V(Z) @ 0.1 Hz ... 20 kHz |
| Sample rates | 51.2 kHz |
| Decimation | down to 200 Hz sample rate, selectable per channel |
| Anti-aliasing filter | yes |
| Max. input voltage | \pm 10 V peak |
| Amplification | 0 dB, 20 dB |
| Overload detection | yes |
| Phase mismatch | < 0.1° @ 20 Hz ... 20 kHz |
| Offset adjust | yes, automatically with self-calibration |
| Input coupling | DC, AC 0.15 Hz, HP 10 Hz, LP 2 kHz |
| Microphone power supply | \pm 14 V, + 20 / 63 / 200 V switchable (LEMO7 versions only) |
| ICP power supply | 2 mA switchable |
| Support of IEEE 1451.4 | yes |

Output channels 1-2

| | |
|---------------------|------------------|
| Resolution | 24-bit |
| Real-time bandwidth | DC ... 20 kHz |
| Max. output voltage | \pm 3.16 Vpeak |

Service channels

| | |
|---------|---|
| Trigger | 2x Trigger / Tacho, trigger level settable via software |
|---------|---|

Physical characteristics

| | |
|--------------|---------------------------------------|
| Dimensions | 180 mm x 105 mm x 22 mm |
| Weight | 700 g |
| USB cable | standard printer cable USB-A to USB-B |
| Power supply | via USB 2 |

Available Software

| | |
|----------------------|---|
| SAMURAI | universal multi channel noise & vibration analyzer |
| SINUS Matlab Toolbox | for individual programming using MATLAB as programming language |
| LabView | LabView driver for individual programming |
| μ REMUS | universal multi channel NVH software |

EMC

| | |
|----------|-------------------------------|
| Emission | conforming with IEC 61000-6-3 |
| Immision | conforming with IEC 61000-6-1 |



Trade marks and owners

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