SoftNoise
DEVELOPERS PREDICTOR & LIMA

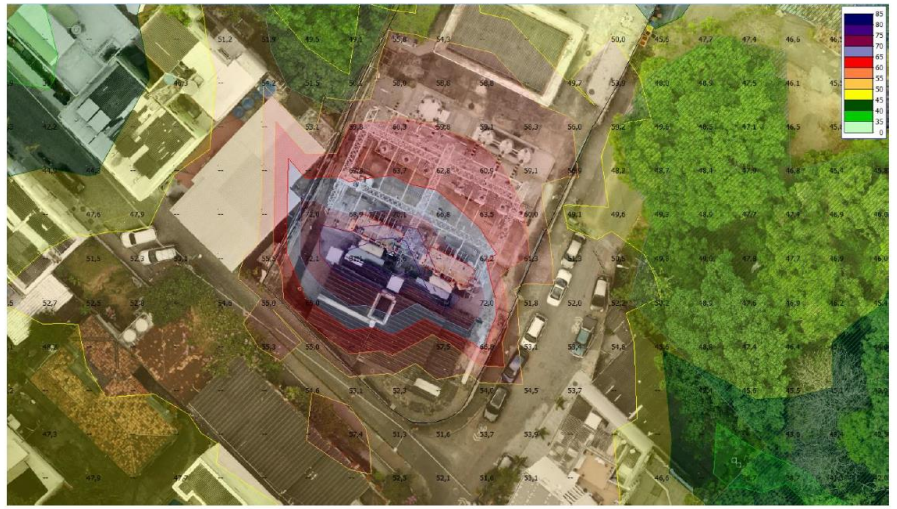
3R Brasil
Tecnologia Ambiental

Pre dictor

Noise Mapping Services

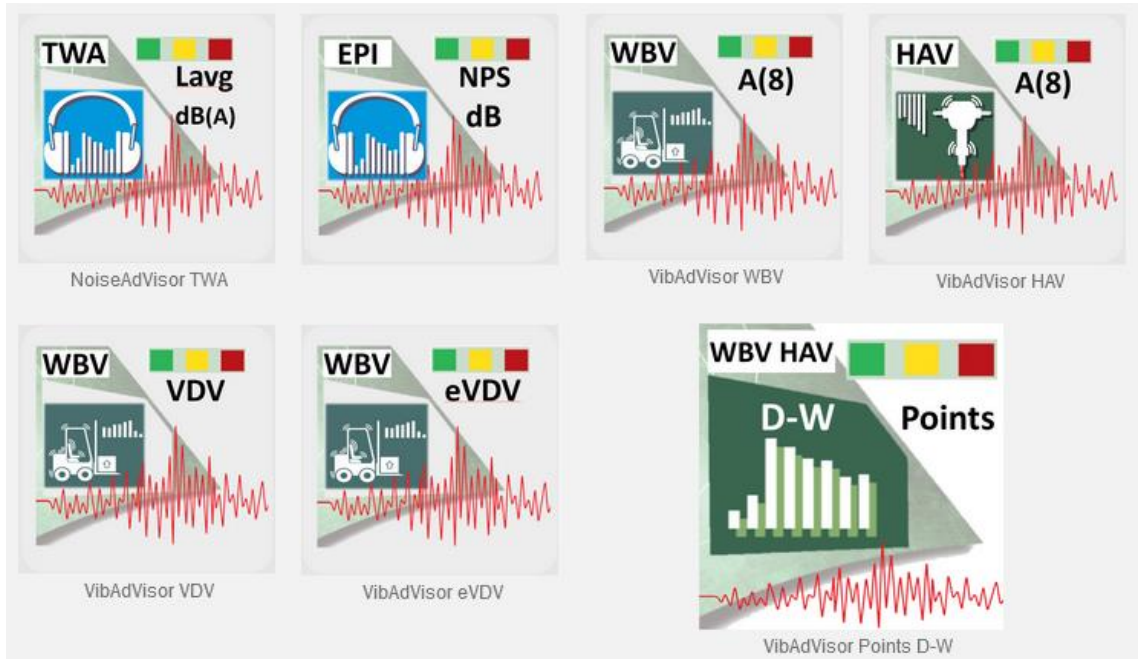
Convergence of products and solutions for georeferencing, modeling, simulation and acoustic studies. Noise environmental impact studies and smart city management.

Drone mapping tools and georeferenced simulations



PARTNERS, TOOLS, PRODUCTS AND RESELLERS

Video high end solutions from 3R Brasil Tecnologia (click here)



History Predictor-LimA software suite

Year		Predictor	LimA
1997	Predictor Type 7810 is added to the B&K portfolio	V1	
2001	LimA Type 7812 is added to B&K portfolio	V3	V4
2002	First version of Predictor with a LimA calculation core	V4	V4
2005		V5	V5
2006	Softnoise established	V5	V5
2007 - 2010		V6.0 – V7.1	V5.1 – V5.5
2010 - 2018	Predictor-LimA Software Suite Type 7810	V8.0 – V12.01	
2018 - 2019	EMS takes over the Predictor-LimA portfolio from B&K	V2019 - V2020	
2020	Envirosuite takes over EMS, Softnoise starts direct sales	V2020.1	
2020	New add-on product: Predictor-LimA Cloud Calcuation Service	V2021	

Predictor-LimA application types

Product	Application
Predictor Basic Standard Type 7810-I	Impact studies for small areas and short stretches of highways and railways. Road, rail, industry, wind turbines.
Predictor Basic Plus Type 7810-C	Impact studies for large areas and medium long stretches of highways and railways. Road, rail, industry, wind turbines.
Predictor-LimA Standard Type 7810-G	Impact studies for small areas and short stretches of highways and railways. Road, rail, industry, wind turbines, CNOSSOS-EU. Optional air-traffic. Integration in GIS systems.
Predictor-LimA Plus Type 7810-A	Impact studies for large areas and medium long stretches of highways and railways. Road, rail, industry, wind turbines, CNOSSOS-EU. Optional air-traffic. Integration in GIS systems.
Predictor-LimA Advanced Type 7810-B	EU Noise maps. Large scale city wide noise mapping. Road, rail, industry, wind turbines, CNOSSOS-EU. Optional air-traffic. Integration in GIS systems.

Noise prediction methods

Predictor – 12 methods	LimA – 26 methods
CNOSSOS, ISO 9613, CRTN, NMPB, XPS, RMR, BS-5228, DAL 32, Harmonoise	CNOSSOS, ISO 9613, CRTN, NMPB, XPS, RMR, BS-5228, DAL 32, Harmonoise
TNM, ENM-link, HJ2.4, Analyst	ECAC29, CRN, RLS 90, SCHALL 03, DIN18005, VDI 2714 – 2720 – 2571, AKUSTIK 04, VBUS, VBUSch, VBUF, VBUI, AzB, MSZ 15036, MSZ 2904, UT2.1 – 302, OAL 28, OAL 20, RVS 3.02

iNoise Free
iNoise Free is for ISO 9613 only, but has the same intuitive GUI as Predictor

3R Brasil
Tecnologia Ambiental

Main noise prediction software developers

Software	Developer and country	user-friendliness	Number of calculation methods	Number of features and flexibility	Suited for large scale noise mapping
LimA	Stapelfeldt-Germany	+	++ (26)	+++++	+++++
Predictor	DGMR-Netherlands	+++++	+ (12)	++	++
SoundPLAN	SoundPLAN-Germany	+	++++(45)	++	++
CadnaA	Datakustik-Germany	++	+++ (40)	++	++
IMMI	Wölfel-Germany	+++	++(30)	++	++

iNoise Free

iNoise Free is for ISO 9613 only, but has the same intuitive GUI as Predictor

Software	Developer and country	user-friendliness	Number of calculation methods	Number of features and flexibility	Suited for large scale noise mapping
Predictor+LimA	SoftNoise	+++++	+++++	+++++	+++++
SoundPLAN	SoundPLAN-Germany	+	++++(45)	++	++
CadnaA	Datakustik-Germany	++	+++ (40)	++	++
IMMI	Wölfel-Germany	+++	++(30)	++	++

Conclusion:

- LimA is the most advanced software
- Predictor is the most user-friendy software

Predictor-LimA Cloud Calculation Service

Trial license request form

Please fill out the form below to request a 1-week trial license.

The Predictor-LimA Cloud Calculation Service (PLCCS) is an add-on to an existing single user license of Predictor V2021.

The PLCCS adds a multi-user cloud license to your single user local license. The pricing (only 980 euros) is based on fair use. See the EULA for more information.

Fast calculations, work anywhere

Buy now...

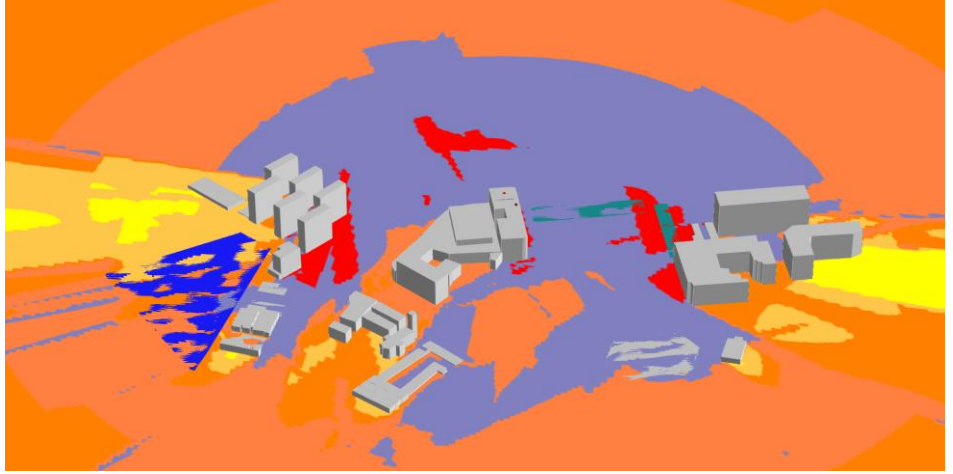
The Predictor-LimA Cloud Calculation Service enables the use of the new fully automated cloud calculation option in Predictor V2021. It provides you with fast and secure calculations without any investments in hardware or IT. Cloud calculations can be used anywhere and by multiple users at the same time, no HASP key needed. The service uses a modern and secure ISO 27001 certified scalable infrastructure and has been developed especially for large models and EU noise mapping projects.

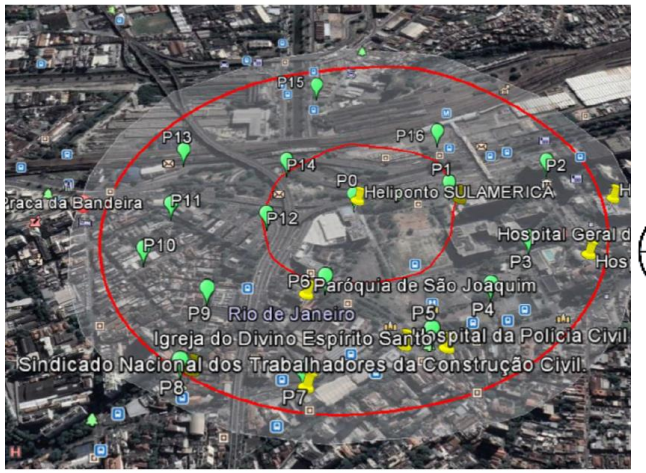
- https://softnoise.com/products/predictor-lima-cloud-calculation-service/request-evaluation-license-predictor-lima-cloud-calculation-service/

Impact Studies of Noise Emissions from Helipads and Airports

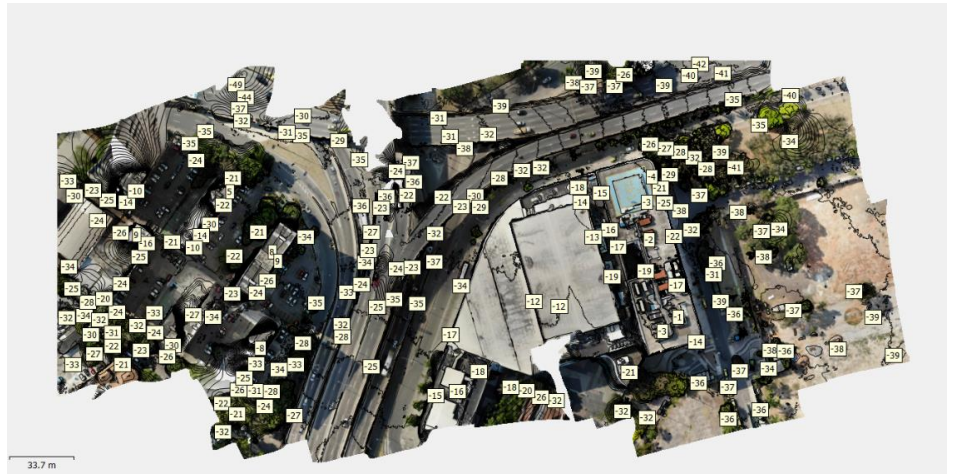
According to EVAL (Local Environmental Feasibility Study) for Helipads according to RBAC 161 of the Federal ANAC of SMAC Municipal."Highlights the study of the Helipad at the Sulamérica Convention Center“

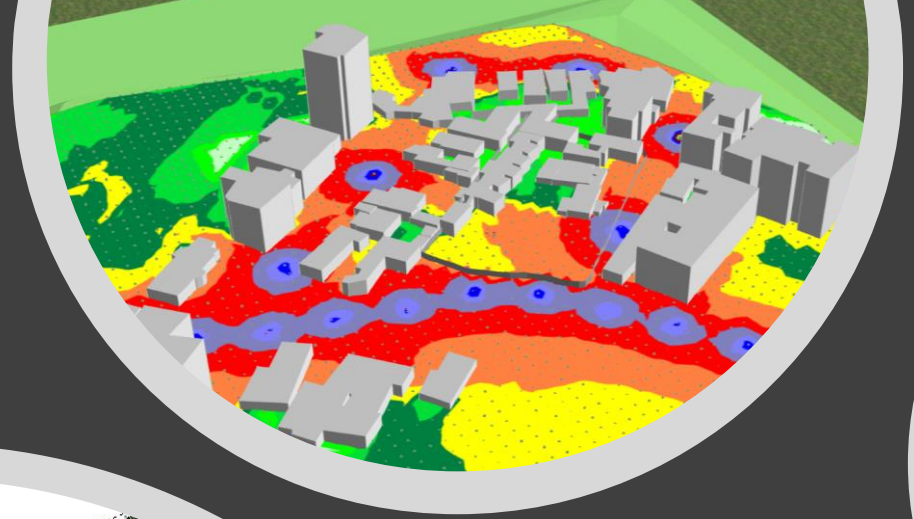
LimA: ECAC 29 METHODS

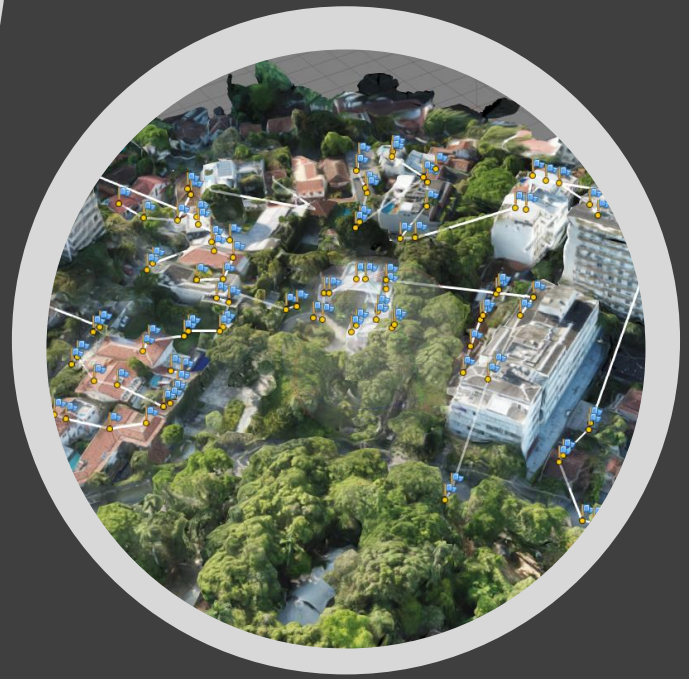


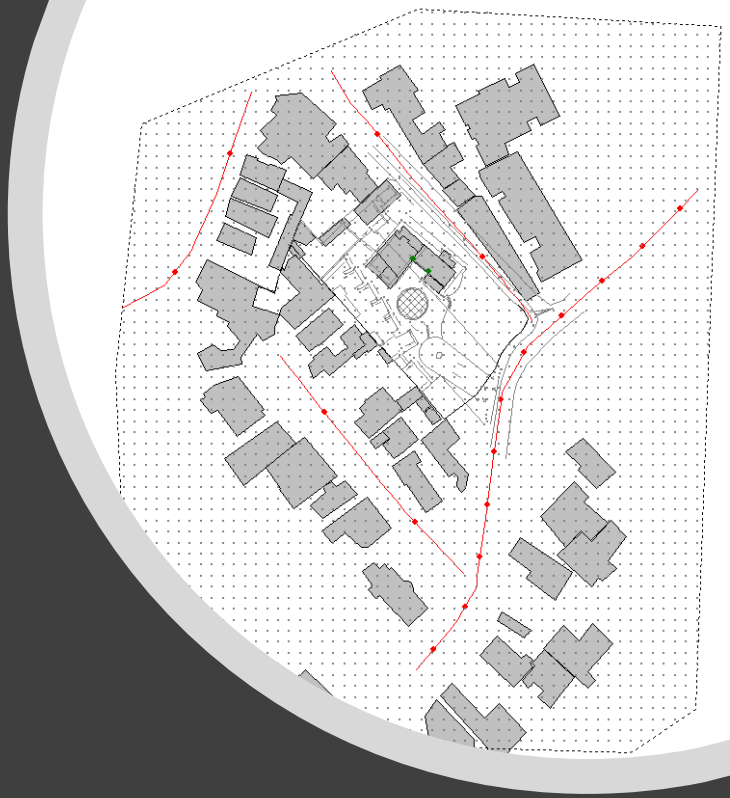


BLUE AEROVISION



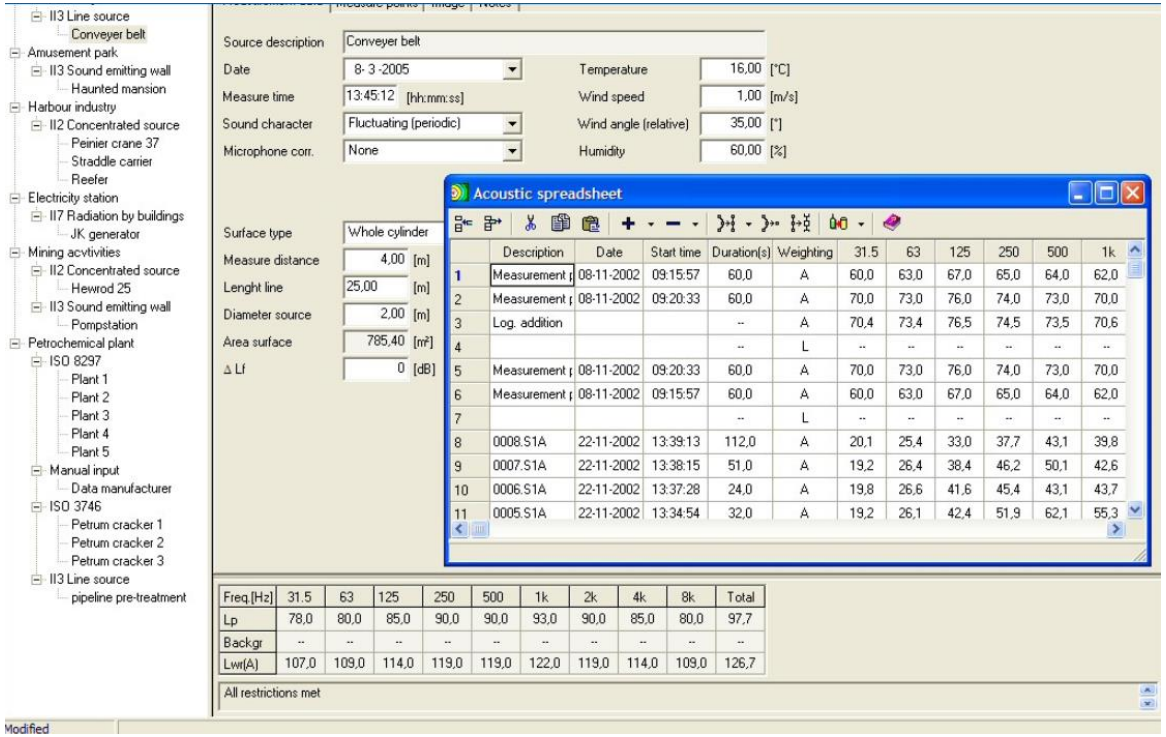






Analysis, evaluation and environmental Studies (3D overlapping models, Orthophoto and Georeferenced CAD Design)

Acoustic Determinator: Software for the determination of sound power levels according to several Measurement methods including ISO 3744, 3746 and 8297. Acoustic Determinator is used to determine the sound power levels of industrial noise sources by measuring the sound pressure level according to ISO 3744, ISO 3746 and ISO 8297, as well as eight Dutch calculation methods. The sound power levels calculated in Acoustic Determinator can be exported to SourceDB or used directly as input for a noise source in a Predictor model.



- Extensibility LimA's software architecture and its extremely fast calculation speed make it the preferred software for integration with other tools. LimA modules can run behind external software with interface tools to other solutions. Tools and functionality include:
- LimAarc: Plug-in tool for ArcGIS®
- On-demand noise mapping Day, Evening, Night (Oden): Server based user interface for noise calculation via the Internet
- GKZ Organizer: Provides automated processing of noise maps, starting with collecting model data from Web Service, then calculates noise and exposure, prepares results graphics and finally reports
- MapWindow GIS: An Open Source GIS tool. It can be used to set up LimA models, display results and organize calculation requests
- Linux support: Nearly all LimA modules are available for Linux-based operating systems.

3R Brasil
Tecnologia Ambiental

PUC RIO

PósMQI
PUC-Rio
Pós-Graduação em Metrologia
Qualidade · Inovação · Sustentabilidade

ACCURATE MODELING WITH DRONES / RPA (S) & PREDICTOR+LIMA

- KMZ orthophoto and 3D models with topography of the site, generated with Agisoft Photoscan and QGIS.

- 3R Brasil Tecnologia is a reseller and partner company in the development of innovative projects through the Postgraduate Program in R&D in Metrology at the Pontifical Catholic University of Rio de Janeiro / Brazil.

- The R&D projects provide scientific support to 3R Brasil Tecnologia and cooperate closely with Engineer Rogério Dias Regazzi, one of our former Masters Student at PUC-Rio and RHAE Researcher in INMETRO at The Human Resources Training Program in Strategic Areas (RHAE)

GmR
SOFTW
predictor

SoftNoise
DEVELOPERS PREDICTOR & LIMA

PRODUCT INFORMATION:

PREDICTOR™-LIMA™ SOFTWARE SUITE VERSION 2021

The Predictor-LimA Software Suite is the complete solution for all environmental noise projects. Noise predictions for industry, roads, railways, aircraft and wind turbines are all supported. The software is used by acoustic consultants, environmental authorities, heavy industries and educational institutes.

The suite bundles the intuitive Predictor GUI and flexible LimA GUI in one powerful, integrated, state-of-the-art package that provides the best solution for whichever project you have, from small-scale industrial situations to large-scale city noise mapping. Predictor-LimA use the state-of-the-art LimA calculation cores with huge capacity and high calculation speed so that you get results quickly while reducing your investment in computing power.

Depending on the task, you can use the GUI that suits you and the task best for efficient, powerful environmental noise prediction and analysis. The suite allows you to do most of your projects quickly and easily, with the intuitive functionality of Predictor and the flexibility of LimA. In addition, the LimA system provides the tools to fully integrate environmental noise predictions in other Geographical Information Systems (GISs).

Click here data sheet

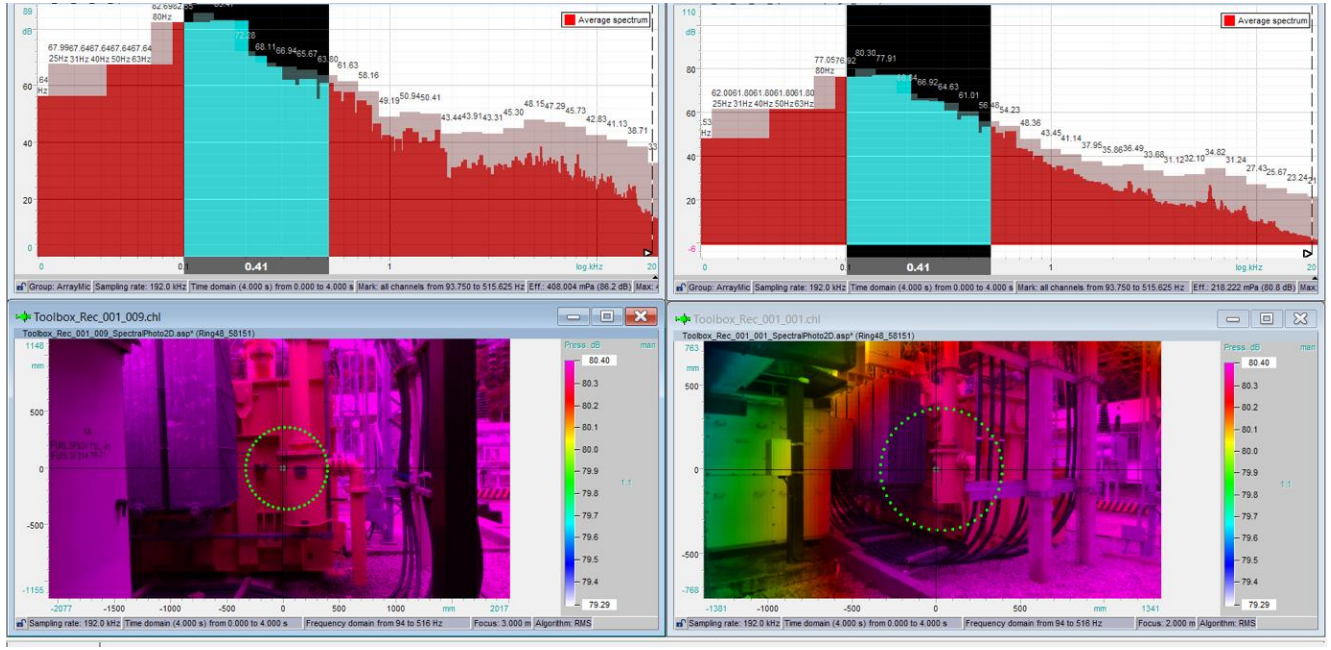
Partnerships in Training, Research and Development

- Sound power measurement of sources with 48 ring microphones, with a 3D camera (with laser scanner) with real-time superimposition of sound field images. Technology for visualization of directivity and global and frequency sound pressure levels of the object under analysis, as a function of distance.
- Insertion of results in Predictor+LimA
- Explanatory video : https://youtu.be/Pub66AeKSp8

PUC RIO

Pós MQI PUC-Rio Pós-Graduação em Metrologia Qualidade · Inovação · Sustentabilidade

3R Brasil Tecnologia Ambiental



ANEEL
Agência Nacional de Energia Elétrica
P&D - Programa de Pesquisa e Desenvolvimento

Light

R&D Research Metrology Programme using an acoustic Ring48 Camera:

- Sound power measurements
- Directivity of the transformers and subsystems
- High End Solution

PUC RIO

PósMQI
PUC-Rio
Pós-Graduação em Metrologia
Qualidade · Inovação · Sustentabilidade

Engineering Solutions 360 degrees: 3R BlueAeroVision GSI Connected

3R Brasil Technology and the Metrology Department at Puc-Rio are partners in the development of the research center in acoustic mapping and solutions for large cities

Rogério Dias Regazzi (rogregazzi@3RBrasil.com.br)
M.Sc, Pontifícia Universidade Católica, Brazil, 1999 and UFRJ at 1992.
(+55 21) 3549-4863

President, Senior Engineer at 3R Brasil Tecnologia Ambiental and HSEC-QSMS. Specialist in Acoustics, Vibration and Drones. High performance CEO!

Complete solution

The Predictor-LimA Software Suite is the complete solution for all environmental noise projects. Noise predictions for industry, roads, railways, aircraft and wind turbines are all supported. The software is used by acoustic consultants, environmental authorities, heavy industries and educational institutes.

The suite bundles the intuitive GUI Predictor and flexible GUI in one powerful package that provides the best solution for whichever project you have, from small-scale industrial situations to large-scale city noise mapping.

3R Brasil
Tecnologia Ambiental

Página Inicial | Sobre a 3R | Serviços | Produtos | Cursos | Artigos

Resellers

You are here: Home » **Resellers**

find your preferred reseller for Predictor-Lima

Europe | Asia | **America** | Oceania | Africa | On-line

Brazil

3R Brasil Tecnologia Ambiental Cultura Servicos e Comercio LTDA

www.ambienciacustica.com / www.3rbrasil.com.br

Click here to buy

	Type 7810-I	Type 7810-C	Type 7810-G	Type 7810-A	Type 7810-B
Product name	Predictor Basic Standard	Predictor Basic Plus	Predictor-LimA Standard	Predictor-LimA Plus	Predictor-LimA Advanced
1-year maintenance continuation for perpetual license	€ 379	€ 685	€ 991	€ 1.985	€ 2.903
1-year rental price per year incl. maintenance	€ 624	€ 1.128	€ 1.632	€ 3.270	€ 4.782
Calculation Methods*	All Predictor methods excluding CNOSSOS	All Predictor methods excluding CNOSSOS	All Predictor and LimA methods including CNOSSOS	All Predictor and LimA methods including CNOSSOS	All Predictor and LimA methods including CNOSSOS
Model Size	Standard	Plus	Standard	Plus	Advanced
Supported cores for local calculation	2	4	2	4	8
Predictor GUI (incl. Analyst method)	√	√	√	√	√
LimA GUI	–	–	√	√	√
Tiling	–	–	√	√	√
Acoustic Determinator (Type 7816)	O	O	O	√	√
LimA Aircraft Module BZ-5441	–	–	O	O	O
LimA Graphic User Interface BZ-5700	–	–	O	O	O

Key: √ included – not included O optional add-on