

# Intelligent Network Event Monitoring System

# MeTrao

by Event Acoustics

## AB-2 Class 1 and Class 2

*The only noise control system to not only measure data but also provide solutions. An unparalleled tool, MeTrao Network sound level monitoring systems provide audio professionals and event organisers with a quick and easy way to measure and observe the increasingly strict sound level regulations prevalent today.*



### MeTraoPat® algorithm

A ground breaking technique unique for MeTrao systems. Based on pattern recognizing algorithms the system can identify, calculate the contribution in sound level, of a single sound sources in an environment with multiple sources even at 1/3 octave resolution by comparing audio inputs, even across an Ethernet network.

### Main Features

The AB-2 acquisition box is a 2 channel measuring system. The main purpose of the AB-2 is to be used as a FOH measuring station. The AB-2 provides the engineer with all the necessary sound parameters to be measured like, dB(A), dB(C), LAeq, LCeq, LMax etc. The system boasts innovative prediction tools, 1/3 octave frequency analyser, chat function and local webserver for extra views. By comparing channel 1 or 2 the MeTraoPat® algorithm can exclude the contribution of the audience noise out of the measured level. Data storage, reporting and set up can be done locally or via a subscription in the cloud. All international standards are supported (DIN 15905-5, Vlare II, NED covenant, etc.).

### Applications

#### Venue Control

FOH or Environment measurement acquisition station where measurements according to (Class 1, 2) are required. Stand alone or part of a MeTrao venue sound measurement network. Stand alone recording or/and reporting or via MeTrao Webface

#### City Control

The AB-2 can be applied as an indoor measurement station for legislative measurements according to (Class 1 or 2, microphone dependent). Part of a MeTrao City Noise Management network with direct feedback from environmental stations in the network based on MeTraoPat algorithm. Stand alone recording reporting or via MeTrao Webface.

#### Event Control

FOH measurement station for legislative measurements according to (Class 1 or 2, microphone dependent). Stand alone or part of a MeTrao Event Noise Management network. Stand alone recording or/ and reporting or via MeTrao Webface

### Features

- Class 1 or Class 2 IEC 61672:2013 sound level measurements
- 2 +48V phantom powered mic-line input on XLR connector
- 1/3 octave real-time analysis
- FFT analysis 1024 lines in selectable frequency band
- Time-domain signal recording on USB storage
- Advanced database-based logger with 1 year of build-in storage (1 channel, all data)
- Ethernet connectivity for networkable large-scale systems and remote display options
- Local webserver for extra views (Engineer(1), Public, DJ via a local (W)LAN network
- Real music level calculation via MeTraoPat algorithm

## Technical specifications AB-2

<b>Sound Level Meter</b>	Standards:	IEC 61672:2013 Class 1
	Values:	SPL, Leq, Lmax, Lmin, Lpeak
	Analyzer:	1/3 octave real-time analysis compliant with IEC-61260
	Weighting Filters:	A, C, Z
	Time Constants:	Slow, Fast, Peak
	Resolution:	0.1 dB
	Dynamic Range:	123dB unweighted
	Microphone:	Metrao class 1 50mV/Pa, prepolarized ½ inch condenser (+48V XLR) Metrao class 2 40mV/Pa, prepolarized ½ inch condenser (+48V XLR)
	Internal Noise Level:	less than 12dB(A)
	Linearity Range:	30dB(A) RMS - 138dB(A) peak with Metrao class 1 microphone 40dB(A) RMS - 138dB(A) peak with Metrao class 2 microphone
	Frequency Range:	20Hz - 20kHz with Metrao type1 microphone 20Hz - 12.5kHz with Metrao type2 microphone
<b>Additional I/O</b>	HDMI:	1x HDMI connection for local display connection
	Ethernet:	1x 10/100Mbit Ethernet port, optional Power over Ethernet
	USB:	1x USB2 port for mass storage devices
	Power:	1x 12Volt DC input
<b>General Data</b>	Input:	IEPE/ICP on BNC connector, +48V phantom mic-line on XLR Connector
	Dynamic Range:	123dB unweighted
	Frequency Range:	0.1Hz - 22kHz, sampling rate 48kHz
	Data storage:	All measurement parameters in 1 second logging steps
	Display:	External HDMI display
	Internal Memory:	2GB for measurement parameters
	External USB Memory:	Maximum 1TB for measurement parameters and audio recordings
	Interfaces:	USB2.0 Host port, 10/100Mbs Ethernet port, RS232/422/485 port, 2 analog input ports, 2 relay ports, 1 PWM fan port
	Power supply:	12Volt DC, 2A
	Power supply range:	9-14Volt DC, maximum 20Watt
	Network power supply:	Power Over Ethernet IEEE802.3at standard (PoE optional)
	Temperature range:	-10°C to +50°C
	Humidity:	Up to 90% RH, non-condensed
	Dimensions:	74(h) x 210(w) x 200(d) mm
	Weight:	0.8kg
<b>Models</b>	AB-2 Class 1 Kit	
	AB-2 Class 1 Case	
	AB-2 Class 2 Kit	
	MeTrao Cloud Subscriptions	

*Event Acoustics consists of a team of acoustic consultants, engineers and software developers with years of practical experience in the entertainment industry. While Event Acoustics' core business is acoustic and audio consultancy, the exceptional combination of specialists, and the projects they work on, regularly leads to the development of unique solutions and products. Event Acoustics' expertise, knowledge and quality products are used worldwide in numerous buildings and by events and rental companies alike.*

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