



The New Castle Sound Meter With Cloud Technology

dBAir is the latest innovation from Castle Group bringing the power of wireless technology to sound measurement.

Quite simply, you take your measurement using one button on the instrument, then you go back to your office and by the time you get there, your results will already be at your fingertips. Alternatively, plug the meter in and simply copy a csv file to your computer.

- No Wires, No Software, No Waiting
- Audio Recording
- Instant Hearing Protection Selection
- Octave and 1/3 Octave Capability
- Instant CSV file from dBAir
- Multi Language







Protect your investment

- ATTACHÉ KIT CASE
- WEATHERPROOF CASE
- IMPACT RESISTANT RUBBER CASE



www.dbairsoundmeter.com



Secure, instant & g available data

dBAir works hand in hand with TheCastleCloud.com ensuring your data is always available and secure

- Starter Account Completely FREE
- Powerful Database System
- Numerous 'Calculators'
- Customised Reporting
- PRO accounts available for increased storage & features.

The database system on which the castle cloud is based allows you to analyse and interpret data based on which employees it affects, where it was taken, which tasks were assessed and who assessed them.

Once you have completed your assessment, you can copy and paste thor you can create reports, which can be automatically emailed to your

CASTLE CLOUD FEATUR

ANY DEVICE, ANYWHERE.

PC, Mac, Tablet or phone, you can access your account and data from any device, anywhere in the world!

CABLES? NOT HERE

At the push of a button the dBAir wirelessly, quickly and securely sends all of your data to your account in The Castle Cloud.

SECURE BACKUP

Not only do we regularly back-up all your data onto secure servers, you can also download your own data at any time onto your device.

INSTANT DATA - NO SOFTWARE NEEDED

As soon as you log into your Castle Cloud account, your data will be waiting for you primed for analysis and report creating. Alternatively, use a USB cable to copy a csv file straight off the meter!

www.thecastleclou

Call us on: +44 (0)1723 584250



dBAir Works Anywhere In **Any Weather**

dBAir systems for

ENVIRONME

For Noise at Work assessments look no further than the dBAir Safety - Sound Innovation in Noise at Work Compliance from a company with nearly half a century's experience in dealing with occupational noise

Let the dBAir do the work, you do the safety.



WHY CLASS 1 OR CLASS 2?

Noise at Work assessments only require a sound meter to be Class 2 as a minimum, however the price difference between this and Class 1 is now smaller than it's ever been.

A Class 1 sound meter carries more weight in a court of law, and could be the difference between successful defence of a civil claim, or not!

1/1 OCTAVE BAND ANALYSIS

Although Hearing Protection Assessments can be carried out using SNR and HML, the addition of 1/1 Octave Band Analysis provides the user with the most accurate method possible ensuring staff are properly protected.

APPLICATIONS

- Noise at Work Assessments
- Exposure Assessments
- Factory Noise Mapping
- Octave Band Hearing Protection Assessments
- Noise Control Effectiveness
- SNR & HML Hearing Protection Assessments
- Litigation Defence



Castle's Unique Hearing Protection Database

- SNR, HML or Octave E



Specifically designed to help you with assessments to BS 414 noise survey reports. local authority complaint measurements much more, these dBAir Environment Assessment Systems a the result of nearly 50 years of knowledge and experience with noise in the environment.



HANDHELD ENVIRONMENTAL dBAir SYSTEMS

The dBAir Environment is available as a handheld system, perfect for a wide range of noise checking, including Boundary Noise and BS 4142.

OUTDOOR dBAir SYSTEMS

For extended periods outdoors, Long Term dBAir Systems come housed in an extremely rugged and weatherproof case, self powered for over a week on the standard battery. For even longer noise monitoring add Castle's 40 Day Weatherproof Power Source.

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1/3 OCTAVE BAND ANALYSIS

Adding Octave Bands enables your dBAir System to carry out Tonal Noise Assessments to 1/3 Octaves.

APPLICATIONS

- Tonal Noise Assessments to 1/3 Octave
- BS 4142 Assessments
- Construction Noise
- Boundary Noise Monitoring
- Compliance Testing
- Handheld Environmental Measurements
- Short Term Assessments
- Long Term Assessments



dBAir is multi-purpose for demanding jobs

For compliant measurements to IEC 61672-1:2013, for accurate Noise at Work assessments, and a whole host of Environmental Assessments including BS 4142:2014, Boundary Noise, Railway Noise, Construction Noise etc., these multi-purpose dBAir Safety and Environment systems are an extremely popular choice with Safety Professionals and Environmental Health Officers alike.



OUTDOOR dBAir SYSTEMS WITH A TRIPOD

Coming housed in rugged Weatherproof Casing, an additional battery, Weatherproof Microphone Housing and a Heavy Duty Tripod, the dBAir Safety and Environment Systems combine all of the features to cover both applications. Perfect for unattended environmental measurements outdoor, then lift out the meter for hand-held measurement tasks."

HANDHELD dBAir SYSTEMS

Presented safely in their unique attaché carry case with an Acoustic Calibrator and TheCastleCloud.com software licence, all of the dBAir Systems are ready to use out of the box. Ideal for attended measurements both indoor or out.

APPLICATIONS

- Noise Control Effectiveness
- BS 4142 Assessments
- Tonal Noise Assessments to 1/3 Octave
- Construction Noise
- Compliance Testing
- Attended & Unattended Boundary Noise Monitoring
- Handheld Environmental Measurements

find out more

www.dbairsoundmeter.com

The versatile design means dBAir works for multiple applications

For specific applications such as Construction Assessments, Boundary Noise Measurements & for configurable products for Consultants, these dBAir Systems have been created to match the task precisely



Construction Assessment System

dBAir Safety & Environmental System 1/1 & 1/3 Octaves - Class 1

Construction noise is a special application because it covers a range of tasks from Planning Conditions to BS 5228 Assessments and from Complaints and Occupational Noise Measurements.

That is why we have a dBAir system dedicated to the job

Railway Assessment System

dBAir Safety & Environmental System 1/1&1/3 Octaves - Class 1

With the ever increasing development of land near to railway lines, noise complaints are becoming ever more prevalent and it is local authorities and consultants who are being asked to carry out more assessments for this application.

This dBAir system also suits other environmental noise monitoring applications, especially where mechanical noise is the cause of complaints in residential areas

Call us on:

+44 (0)1723 584250



Who Are Castle?

Castle Group Ltd is a multi faceted company specialising in equipment and knowledge within the health, safety and environmental sectors.

At Castle we are all about tackling issues in a way most appropriate to you. If you want to purchase or rent some equipment and learn to manage a job yourself, then great; if, however, you just want us to come and do it all for you equally great and there's any measure in-between.

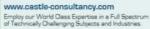


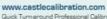
- Rental
- Software
- Training
- Calibration
- Consultancy
- Online knowledge











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www.castletrainingacademy.com

Our principle website and the hub for all our websites and services as well as information about us and our company.

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The best Measurement & Monitoring Equipme a fraction of the cost price. Available Immediat

Quick Turn-around Professional Calibration & Repairs by Highly Trained Engineers. Free Quotations

dBAir Technical Information

dBAir Models

GBAI' MIGGRIS

GBA' Safety Dess 2 [GA7415]

GBA' Safety Dess 2 [GA7415]

GBA' Safety Dess 2 [GA7415]

GBA' Safety Dess 3 [GA7415]

GBA' Safety Dess 3 [GA7415]

GBA' Safety Dess 1 [GA1415]

GBA' Safety Dess 1 [GA1415]

GBA' Environment Disss 1 [GA1415]

GBA' Environment Disss 1 [GA1415]

GBA' Safety, & Environment Disss 1 [GA14150]

GBA' Safety, & Environment Disss 1 [GA14150]

dBAir Systems

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dBAIr Selfs) Managers Octore System
dBAIr Environment Assassment System
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Applicable Standards

EC 61872-1-2013 EC 61260-1-2014 [Where Octave Bands Fitted] EC 61252-1983 amendment 1-2000 [Where Exposure Fitted]

Class 1:
1/4" Pra-Polarised - Free Field (IEC) Pressure (ANSI)
Sensitivity (50mV/Pa)

Class 2: 1/2" Pre-Polarised - Free Field (EC) Pressure (ANSI) Sensitivity (25mV/Pa)

Noise Floor (Typical)

Class 1: 'A' Weighting < 16.0dB C' Weighting < 15.0dB Z' Weighting < 25.0dB

Class 2: 'A' Weighting < 18.5dB 'C' Weighting < 18.0dB 'Z' Weighting < 25.5dB

Measurement Ranges:

Class 1: 25 - 115dB (LOW) 50 - 140dB (HIGH)

Class 2: 28 · 115dB (LOW) 50 - 140dB (HIGH

Frequency Weightings Measurement 1: A, C or Z Measurement 2: A, C or Z

Frequency Range

1 Hz - 20 kHz (electrical characteristics) Class 1: 10 Hz - 20 kHz (including micropho Class 2: 20Hz - 8kHz (including microphone

Time Weighting

Measurement 1: Slow, Fast, Impulse Measurement 2: Slow, Fast, Impulse

Octave Band Analysis
Where fitted 1,11 or 1/3 octave band analysis on measurement 1 only.

Display 2.4" Full Colour TFT 240x320 pixels

Dual Measurements

Simultaneous dual measurement with independent time and frequency weightings.

MEASUREMENT PARAMETERS

dBAir Safety Octave: Lsr., Lso., LMX, LMX, Peak, Lsr., Exposure Points, Dose, Hearing Protector Calculator 1/1 or 1/3 Octaves Lsr., LMX, LMAX, Peak

dBAir Environmental: Lsm. Le, Lsm., Lym., Peak, Lsm., Lsm., Lday, Levening, Lnight, Ldn., Lden, NA. 10 user-definable Ln values (pneset to L.1, LE, 1-10, L20, L25, L50, L75, L90, L95, L90) plus LAF* for Noise act assessment.

dBAir Environmental Octave: Lam, Le, Leo, Luxe, Law, Peak, Lamo, Lims, Lday, Lawning, Linghi, Ldh, Lden, NA, 10 usen-definable Ln values [pre-set to 1.1, 15, 1.10, L20, L25, L50, L75, L30, L55, L90] blus LAF* for house at assessment 1/1 or 1/3 Octaves.

dBAir Safety & Environmental:
LSP. LE LES, LMAX LWM, Peak LEPE, Exposure Points.
Dose, Hearing Protector Calculator, Lwn, Lwns, Lday,
Levering, Linght, Ldn, Lden, NA, 10 user-definable Linwhites [present to 1.1, 15, 1-10, L20, L25, L50, L75,
LSO, LSS, LSO) plus LAF* for Noise act assessment.

GAM: Safety & Anivonmental Octave

Len, Le Len, Liwax Liwa, Paek (Len, Exposure Pointe,
Does Hearing Protector Calculation, Lend. Len, Light
Levening, Linght, Lon, Lohn, NA. 10 user-definable Invalues (preset to 1.1, 15, 110, 120, 125, 150, 175,
180, USD 5, 190) bus LAF for Noise act assessment,
1/1 or 1/3 Ottowes

Len, Le Len, Liwax, Liwax, Lina, Peek

Languages English UK, English US, Chinese, French, German, Italian, Portuguese Brazilan, Russian, Spanish, Dutch, Greek

Time History
Short Interval: 10ms to 80m
Long Interval: 1s to 24h
Smart Timer, Duration Timer or Interval Timer

Memory - 18GB, 32GB or 84GB

Input / Output Connection

Micro USB Type B

Power

Batteries: 4 x AA [1.5V] Life: Up to 8 Hours continuous operation [screen settings dependent] USB Socket

Size and Weight

Dimensions: Including Pre-Amplifier: 210mm (H] x 70mm (W] x 30mm (D) Excluding Pre-Amplifier 145mm (H] x 70mm (W) x 30mm (D) Weight: Model 305g System - 1500g

GASO7 Dual Level Calibrator
KA017 Kr. Case for dBAr & Accessories [included]
KA022 Weatherproof Enclosure
Z1141-801 Sandard Microphone Extension Cable
Z1108-01 USB to Micro USB Cable 1m
PSU6 USB Wall Plum

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