Optimus+ Yellow

Handheld Sound Level Meter

For noise level testing and basic noise sound level measurements

What is the Optimus+ Yellow?

The Optimus+ Yellow from Cirrus Research is a state-of-the-art entry-level sound meter that has been designed to meet the very latest standards for noise measurement and provides the highest level of performance, while being simple to set up, use and operate.

Applications

- Simple noise level testing
- Noise ordinance enforcement
- Community noise assessments
- Fire and emergency alarm testing
- Machinery servicing and maintenance

Applications such as simple noise testing, noise ordinance enforcement and emergency alarm testing only require basic noise data, such as sound pressure level (SPL) or maximum sound level (LMax). We've designed the Optimus+ Yellow to be perfect for these applications, giving you everything you need. No more, no less.

Simple operation to make measurements easy

The Optimus+ Yellow will measure every parameter simultaneously, so there's never any possibility of you setting the wrong function or missing out on key data. Only the most crucial data is displayed on your screen, providing you an instant view of what's important.

Remote operation with Bluetooth connectivity

With Bluetooth connectivity, the Optimus+ Green can be operated remotely from a compatible smartphone through the dedicated mobile app.

Data logging of measured data

The Optimus+ Yellow is available with data logging technology for over 10,000 records, as well as our very own VoiceTag™ audio note recording function, which allows short recordings to be made before each measurement.

You can play these recordings back in our licence-free software, NoiseTools and make sorting and reviewing measurement data easy and straightforward.

Key features

- Simple operation: switch on, calibrate and start measuring!
- Simultaneous measurement of all parameters
- High-resolution colour display
- Ergonomically designed case
- 120dB measurement range
- Optional data logging with VoiceTag audio note recording
- Bluetooth® connectivity

AMSH Product Line Pvt. Ltd.

Technical specifications

Applicable standards
IEC 61672-1: 2013 Class 1 or Class 2[1]
IEC 61672-1: 2002 Class 1 or Class 2 Group X[1]
IEC 60651: 2001 Type 1 I or Type 2 I
ANSI S1.4-1983 (R2006)

Microphone
Class 1 - MK:224/MK:229 pre-polarised
Class 2 - MK:216 pre-polarised

Microphone preamplifier
MV:200 removable preamplifier

Total measurement range
20dB to 140dB RMS single range
Noise floor: <18dB(A) Class 1
            <21dB(A) Class 2

Frequency weightings
RMS: A, C & Z measured simultaneously

Time Weightings
Fast, Slow & Impulse measured simultaneously

Display
High-resolution display with ambient light sensor and illuminated keypad

Memory
4GB expandable with up to 10,000 measurements (B version only)

Time history data rates (global settings)
10ms, 62.5ms, 100ms, 125ms, 250ms, 1/2 sec, 1 sec, 2 sec (user-selectable)

VoiceTag Audio Recording (B version only)
30 seconds of audio recording with each measurement

Dimensions
Size   283mm x 65mm x 30mm
Weight   300gms/10oz

Batteries
4 x AA alkaline

Battery life
Typical 12 hours with alkaline AA
Typically 20 hours with lithium AA non-rechargeable

Battery life is dependent on the battery and quality, and screen brightness

External power
5V via USB socket from PC or power supply
5V-15V via MultiIO socket

Tripod mount
1/4" Whitworth socket

Connections
USB Type B to PC
Multi-pin IO for external power
AC output via 3.5mm jack socket and ZL:826 cable
DC output via MultiIO socket and ZL:825 cable

Case
High-impact ABS-PC with soft-touch back and keypad

Environmental conditions
Operating temperature -10°C to +50°C
Storage temperature   -20°C to +60°C
Operating humidity   Up to 95% RH non-condensing

Electromagnetic performance
IEC 61672-1: 2002 & IEC 61672-2: 2003
Except where modified by EN 61000-6: 2007 & EN 61000-6-1: 2007

Bluetooth
BLE-compatible with Android and iOS devices.
Cirrus Research apps available from relevant app stores.

Language options
English, French, German, Spanish as standard.
Other languages may be available upon request.

Software support
NoiseTools download, configuration and analysis software supplied as standard.
NoiseTools is supplied free from any licensing or installation restrictions.

Measurement functions[2]
CR:152A & CR:151A
Displayed functions
Lxy, LxyMax, LxyMin
Measurement run time

CR:152B & CR:151B
Displayed functions
Lxy, LxyMax, LxyMin
Measurement run time

Stored functions
LxyMax & time history of LxyMax

where   x=A, C or Z
           y=F, S or I

All values, figures and performance statements are typical and are subject to change without notice.

Notes
1. Please contact Cirrus Research for details of the standards and approvals that are available on specific instrument types.
2. For details of the displayed and stored parameters, please efer to the Optimus+ user manual for full specifications.

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Which Optimus+ is right for you?

	Class 1	Class 2	Sound pressure level	Average noise level (Leq)	Peak	%Dose	1:1 octave bands	1:3 octave bands	Audio recording	On-screen NR/ NC curves	Single measurement timers	Repeat measurement timers	Bluetooth
Key Features													
Optimus+ Yellow	✓	✓	✓								✓		✓
Optimus+ Red	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓
Optimus+ Green	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓