

Technical Specifications: CR:15XX



OPTIMUS+ YELLOW

Technical specifications

Applicable standards¹

IEC 61672-1:2013 Class 1 or Class 2
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 Instruments MK:224 or MK:229
pre-polarized
Class 2 Instruments MK:216 pre-
polarized

Microphone preamplifier

MV:200 removable preamplifier (All
Versions)

Total measurement range:

20dB to 140dB RMS Single Range
Noise Floor: <19dB(A) Class 1, <22dB(A)
Class 2

Frequency weightings

RMS: A, C, & Z Measured Simultaneously

Time weightings

Fast, Slow & Impulse Measured
Simultaneously

Display

High resolution display
Ambient light sensor and illuminated
keypad

Memory

4GB Expandable with up to 10,000
measurements stored (B Version)

Time history data rates (global settings)

10ms, 62.5ms, 100ms, 125ms, 250ms,
1/2 sec, 1 sec, 2 sec

VoiceTag audio recording (B versions)

Up to 30 seconds of audio notes with
each measurement

Bluetooth (with dBActive)

BLE compatible with Android and iOS
devices
Cirrus mobile applications available from
Google Play and the App Store

Size

283mm x 65mm x 30mm

Weight

300gms/10oz

Batteries

4 x AA alkaline
Battery life
Typically 12 hours with Alkaline AA
Typically 20 hours with Lithium AA Non-
Rechargeable

*Battery life is dependent upon the battery
type and quality & screen brightness*

External power

5v via USB socket from PC or power
supply. 5v-15v via MultiIO socket,
dependent on settings

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 &
ZL:826 cable
DC output via Multi-IO socket & ZL:825
cable

Case

Material: high impact ABS-PC with soft
touch back and keypad

Environmental

**Operating
temperature** -10°C to +50°C

**Storage
temperature** -20°C to +60°C

Humidity Up to 95% RH non-
condensing

Electromagnetic performance

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

AuditStore

Measurement verification data stored in
secure memory

Language options

English, French, German, Spanish &
Italian as standard.

Software support

NoiseTools download, configuration and
analysis software supplied as standard.

NoiseTools is supplied free from any
licensing or installation restrictions.

dBActive mobile application can be
downloaded from the App Store or
Google Play for iOS and Android devices.

All specifications, features and values are
typical and are subject to change without
notice.



Measurement functions²

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, Z; y= F, S, I

Notes

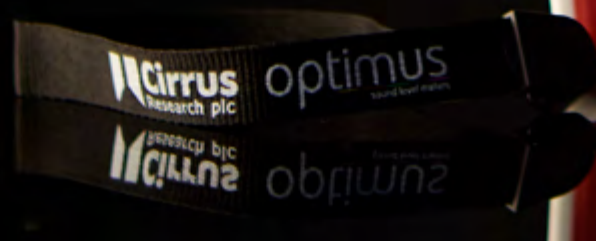
¹Please contact Cirrus Research plc for details of the standards and approvals that are available on specific instrument types.
²For details of the displayed and stored parameters, please refer to the Optimus user manual for full specifications.

All specifications, features and values are typical and subject to change without notice.

	Class 1	Class 2	Sound level functions	Data logging	VoiceTag recording	Software support	Bluetooth®	Measurement kit
CR:152A		✓	✓			dBActive only	✓	CK:152A
CR:151A	✓		✓			dBActive only	✓	CK:151A
CR:152B		✓	✓	✓	✓	✓	✓	CK:152B
CR:151B	✓		✓	✓	✓	✓	✓	CK:151B

Why choose Cirrus Research?

- 1) Providing sound solutions since 1970
- 2) UK-based in-house team of experts on-hand to offer help, support, guidance and training
- 3) Rental options available
- 4) Bespoke turn-key solutions available
- 5) We supply quality equipment that is trusted by customers all around the world



Cirrus Research plc
Acoustic House
Bridlington Road
Hunmanby
North Yorkshire
YO14 0PH

Email: sales@cirrusresearch.co.uk
Website: www.cirrusresearch.co.uk
Telephone: 0845 230 2436
+44 (0)1723 891 655
Fax: +44 (0)1723 891 742



*software capabilities are dependent on the functionality of your sound level meter

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