

EU Type Examination Certificate

This is to certify that:

GUANGZHOU OPSMEN TECH CO., LTD.
Room 601, Building A,
No.94 Liwan Road,
Liwan District,
Guangzhou,
Guangdong
China

Holds Certificate Number:

CE 791081

In respect of:

**Hearing protection to: EN 352-1:2020, EN 352-2:2020, EN 352-4:2020, EN 352-6:2020,
EN 352-7:2020, EN 352-8:2020, EN 352-9:2020 & EN 352-10:2020**

on the basis that BSI carried out the relevant Type Examination procedures under the requirements with the Regulation (EU) 2016/425 of the European Parliament and Council relating to Personal Protective Equipment Regulation (PPE) Annex V (Module B) and meets the relevant health and safety requirements specified in Annex II

For and on behalf of BSI, a Notified
Body for the above Regulation
(Notified Body Number 2797):



Denelise L'Ecluse, Managing Director Assurance - Continental
Europe

First Issued: 2023-12-19

Latest Issue: 2023-12-19

Effective Date: 2023-12-19

Expiry Date: 2028-12-18

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EU Type Examination Certificate

No. CE 791081

Product Specification

Model: M20 / M20T

Product Description: Electronic ear plugs are made from a PC and ABS cover Silicone rubber ear hooks, the ear tips are made from foam.

Size: Small (6-8mm) , Medium (7-10mm) , Large (8-12mm).

Performance Data: EN 352-2

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	24.8	21.6	26.7	28.4	27.6	32.8	37.8	41.7
Standard Deviation(dB)	4.6	3.7	3.6	3.3	2.6	4.3	4.8	3.3
APV (dB)	20.2	17.9	23.1	25.0	25.0	28.5	33.0	38.4

SNR_m: 31.6dB

H_m: 32.8dB

M_m: 28.7dB

L_m: 26.6dB

SNR_s: 2.4dB

H_s: 2.7dB

M_s: 2.5dB

L_s: 2.8dB

SNR: 29dB

H: 30dB

M: 26dB

L: 24dB

EN 352-4 (Noise Level) L-Criterion: 111.8 dBA M-Criterion: 112.4 dBA H-Criterion: 115.8 dBA

EN 352-9 Max. Output Level 72.6 dBA Usage time >8 hours

EN 352-10 Max. Output Level 75.5 dBA Usage time >8 hours

Technical Specification:

EN 352-2:2020 Hearing protectors - General requirements
Part 2: Ear Plugs.

EN 352-7:2020 Hearing protectors – Safety requirements and testing
Part 7: Level dependent ear plugs.

EN 352-9:2020 Hearing protectors – Safety requirements and testing
Part 9: Ear plugs with safety-related audio input

EN 352-10:2020 Hearing protectors – Safety requirements
Part 10: Entertainment audio ear plugs

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To check its validity telephone +31 20 3460780. An electronic certificate can be authenticated [online](#).

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EU Type Examination Certificate

No. CE 791081

Product Specification

Model: M31 / M32

Product Description: Headband mounted adjustable electronic earmuffs. The headband is made from Manganese steel, the earmuff cup is made from ABS, the ear cushions are made from foam and PVC.

Size: Small, Medium, Large.

Performance Data: EN 352-1

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	20.5	16.4	21.5	25.4	29.7	30.2	41.6	41.3
Standard Deviation(dB)	3.6	2.8	2.6	1.9	2.2	2.5	3.0	3.5
APV (dB)	16.9	13.6	18.9	23.5	27.5	27.7	38.6	37.9

SNR_m: 30.3dB

H_m: 32.5dB

M_m: 27.8dB

L_m: 22.7dB

SNR_s: 1.2dB

H_s: 2.0dB

M_s: 1.2dB

L_s: 1.9dB

SNR: 29dB

H: 31dB

M: 27dB

L: 21dB

EN 352-4 (Noise Level) L-Criterion: 94.1dBA M-Criterion: 104.4dBA H-Criterion: 113dBA

EN 352-6 Criterion Level >82dBA -16.4 dBV (150.8mV)

EN 352-8 Criterion Level >82dBA -12.8 dBV (229.6mV)

Weight: 362.1g

Technical Specification:

EN 352-1:2020 Hearing protectors. General requirements. Earmuffs

EN 352-4:2020 Hearing protectors – Safety requirements and testing
Part 4: Level dependent earmuffs.

EN 352-6:2020 Hearing protectors – Safety requirements and testing
Part 6: Ear-muffs with safety-related audio input

EN 352-8:2020 Hearing protectors – Safety requirements
Part 8: Entertainment audio earmuffs

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EU Type Examination Certificate

No. CE 791081

Product Specification

Model: M33

Product Description: Headband mounted adjustable electronic earmuffs. The headband is made from Manganese steel, the earmuff cup is made from ABS, the ear cushions are made from foam and PVC.

Size: Small, Medium, Large.

Performance Data: EN 352-1

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	17.7	13.9	20.0	27.0	32.6	32.3	42.4	42.8
Standard Deviation(dB)	2.2	2.1	3.0	2.9	3.8	2.5	4.0	4.1
APV (dB)	15.4	11.8	17.0	24.1	28.8	29.7	38.4	38.8

SNR_m: 30.8dB

H_m: 34.8dB

M_m: 28.5dB

L_m: 21.1dB

SNR_s: 2.0dB

H_s: 2.5dB

M_s: 2.2dB

L_s: 2.1dB

SNR: 29dB

H: 32dB

M: 26dB

L: 19dB

EN 352-4 (Noise Level) L-Criterion: 100.4dBA M-Criterion: 104.1dBA H-Criterion: 113.6dBA

EN 352-6 Criterion Level >82dBA -5.3 dBV (544.3mV) Bluetooth Max. Level 63.9dBA

EN 352-8 Criterion Level >82dBA -4.5 dBV (595.1mV) Bluetooth Max. Level 63.3dBA

Weight: 318.5g

Technical Specification:

EN 352-1:2020 Hearing protectors. General requirements. Earmuffs

EN 352-4:2020 Hearing protectors – Safety requirements and testing Part 4: Level dependent earmuffs.

EN 352-6:2020 Hearing protectors – Safety requirements and testing Part 6: Ear-muffs with safety-related audio input

EN 352-8:2020 Hearing protectors – Safety requirements Part 8: Entertainment audio earmuffs

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EU Type Examination Certificate

No. CE 791081

Product Specification

Model: C51

Product Description: Headband mounted adjustable electronic earmuffs. The headband is made from Manganese steel, the earmuff cup is made from ABS, the ear cushions are made from foam and PVC.

Size: Small, Medium, Large.

Performance Data: EN 352-1

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	23.1	19.2	25.0	31.8	35.0	33.8	40.3	39.5
Standard Deviation(dB)	3.5	3.5	3.1	3.6	2.7	2.5	3.9	3.3
APV (dB)	19.6	15.6	21.8	28.1	32.2	31.3	36.4	36.1

SNR_m: 34.2dB

H_m: 35.8dB

M_m: 32.3dB

L_m: 26.2dB

SNR_s: 2.1dB

H_s: 2.3dB

M_s: 2.3dB

L_s: 3.0dB

SNR: 32dB

H: 34dB

M: 30dB

L: 23dB

EN 352-4 (Noise Level) L-Criterion: 106.5dBA M-Criterion: 113.0dBA H-Criterion: 115.3dBA

EN 352-6 Bluetooth Max. Level 73.2dBA

EN 352-8 Bluetooth Max. Level 74.0dBA

Weight: 383.3g

Technical Specification:

EN 352-1:2020 Hearing protectors. General requirements. Earmuffs

EN 352-4:2020 Hearing protectors – Safety requirements and testing Part 4: Level dependent earmuffs.

EN 352-6:2020 Hearing protectors – Safety requirements and testing Part 6: Ear-muffs with safety-related audio input

EN 352-8:2020 Hearing protectors – Safety requirements Part 8: Entertainment audio earmuffs

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Certificate Administration Details

Technical File Reference: OPSMEN Tech Co., Ltd M31/M32/C51/M33/M20/M20T V2

Certificate Administration Record and BSI internal Technical File Review reference

Issue date	Comments	BSI Review Ref.
December 2023	First Issue	2797:23:3931222

Note: The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspect of the overall processes utilised in the manufacture of the product, failure to do so could invalidate the Certificate in respect of product manufactured following the introduction of such changes.

Monitoring of manufactured PPE:

The validity of the Certificate is also dependent on the maintenance of the CE quality of production by monitoring system, Module D, as referenced on BSI Certificate CE 775354.

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