

Notified Body
TÜV Rheinland
LGA Products GmbH

Tillystraße 2
90431 Nürnberg

notified by the
Bundesnetzagentur für Elektrizität, Gas,
Telekommunikation, Post und Eisenbahnen

under No. 0197

herewith issues an

EU-Type Examination Certificate

within the meaning of Annex III Module B of the 2014/53/EU Radio Equipment Directive (RED)
for compliance with the essential requirements of this directive

Registration Number: RT 60171037 0001

Evaluation Report Nr.: CN23YWZM 001

Manufacturer: Harman International Industries,
Incorporated
8500 Balboa Blvd.
Northridge CA 91329
USA

Product: Radio Equipment
(Bluetooth Headset)

Type Identification: LIVE770NC (JBL)

Essential requirements: 2014/53/EU (RED)
Article 3.1a Health
Article 3.1a Electrical Safety
Article 3.1b EMC
Article 3.2 Radio spectrum

The technical design of the assessed type has been verified based on the technical documentation presented by the manufacturer according to Annex III Module B of the Directive. As far as the essential requirements indicated, the Notified Body of TÜV Rheinland LGA Products GmbH confirms, that the technical design of the apparatus meets the essential requirements of the Directive 2014/53/EU Article 3.

This certificate consists of this page and Annex I.

Validity of the certificate is specified in the Annex I.

Date **26.06.2023**



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Equipment

Product : Bluetooth Headset
Trademark : JBL
Identification : LIVE770NC
Product description : The device is Bluetooth Headset, which supports Bluetooth dual mode technology.

System description

Frequency band(s) of operation : 2400-2483.5MHz
 Operating frequency : 2402-2480MHz
 Channel spacing / bandwidth : Bluetooth:1MHz / 1.1859MHz
 Bluetooth LE: 2MHz / 1.9778MHz
 RF output power : Bluetooth: 6.13dBm (Max. e.i.r.p.)
 Bluetooth LE: 8.59dBm (Max. e.i.r.p.)
 Type of modulation : GFSK, pi/4-DQPSK, 8-DPSK
 Type of antenna : Integral antenna
 Mode of operation (simplex / duplex) : Duplex
 Duty cycle (access protocol, if applicable) : Up to 100%
 Hardware version : 001
 Software version : V2.0.4

Documentation

User information and installation instructions
 Block diagram
 Circuit diagram
 Part list
 PCB layout
 Photo documentation
 Versions of firmware/software used
 Statement of compliance with art. 10.2 it can be operated
 in at least one Member State without infringing applicable
 requirements on the use of radio spectrum.
 Risk Analysis

Conformity Assessment

Applied harmonised standards (Referred to the publication of harmonised standards in the official Journal of the EU at the time of issuance)			
Article	Standard	Test Report No.	Issued by
3.1a Health			
3.1a Safety			
3.1b EMC			
3.2 Radio	EN 300 328 V2.2.2 (2019-07)	CN23F22P 001 CN23F22P 002	TÜV Rheinland (Shenzhen) Co., Ltd.
3.3 Others			

Applied non-harmonised standards			
Article	Standard	Test Report No.	Issued by
3.1a Health	EN 50663:2017 EN 62479:2010	CN23F22P 001 CN23F22P 002	TÜV Rheinland (Shenzhen) Co., Ltd.
3.1a Safety	EN 62368-1:2014+A11: 2017; EN IEC 62368-1:2020+A11:2020	CN23W3TD 001; CN23ZPP2 001	TÜV Rheinland (Shenzhen) Co., Ltd.
3.1b EMC	EN 301 489-1 V2.2.3 (2019-11) EN 301 489-17 V3.2.4 (2020-09); EN IEC 61000-3-2:2019+A1:2021 EN 61000-3-3:2013+A2:2021 EN 55032:2015+A11:2020 EN 55032:2015+A1:2020 EN 55035:2017+A11:2020	CN23F22P 003; CN23F22P 004;	TÜV Rheinland (Shenzhen) Co., Ltd.
3.2 Radio			
3.3 Others			

Other solutions, adopted to meet the essential requirements			
Article	Standard	Test Report No.	Issued by
3.1a Health			
3.1a Safety			
3.1b EMC			
3.2 Radio			
3.3 Others			

Rationale for applied non-harmonised standards or other solutions:

- EN 50663 Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10 MHz - 300 GHz).
- EN 62479 Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz).
- EN 62368-1 / EN IEC 62368-1 Audio/video, information and communication technology equipment - Part 1: Safety requirements.
- EN IEC 61000-3-2 Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current \leq 16 A per phase); EN 61000-3-3 Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply.
- EN 55032 Electromagnetic compatibility of multimedia equipment – Emission Requirements; EN 55035 Electromagnetic compatibility of multimedia equipment – Immunity requirements; EN 55035 Electromagnetic compatibility of multimedia equipment - Immunity requirements.
- EN 301 489-1 ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; EN 301 489-17 ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems.

Remarks:

- This Type Examination Certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.
- This Type Examination Certificate only relates to the assessment of technical documentation to verify that the technical design of radio equipment meets the essential requirements of the RED 2014/53/EU and will not show compliance with essential requirements of other possible applicable EU Directives.
- The manufacturer has declared in compliance with art. 10.2 that the Radio Equipment can be operated in at least one Member State without infringing applicable requirements on the use of radio spectrum.
- Validity of this Type Examination Certificate is limited to the versions of the applied standard. If versions of standards change or modifications are made to the product, this Certificate will be invalidated.