NOTIFIED BODY

MODULE B: EU TYPE EXAMINATION CERTIFICATE

(For Council Directive 2014/53/EU)

This Certificate is issued to

JVCKENWOOD Corporation

2967-3 Ishikawa-machi, Hachioji-shi, Tokyo, 192-8525 Japan

to state that the equipment known as

Digital Media Receiver

KMM-BT506DAB, KMR-M506DAB, KD-X472DBT, KD-X272DBT

Conforms (following an evaluation of its associated Technical Documentation and subject to any restrictions stated in the attached Annex) with the essential requirements of Annex III, Module B, of the Council Directive **2014/53/EU** on Radio Equipment (RED) and the mutual recognition of their conformity, in relation to the essential requirements of:

Article 3.1(a) Health and Safety : No assessment

Article 3.1(a) EMF : No assessment

Article 3.1(b) EMC : No assessment

Article 3.2 Radio Spectrum : Complied

Article 3.3 Special Features : Define no special feature

Details of this certification, standards used, RF parameters of this equipment and other information necessary for the correct interpretation and application, including any remarks, restrictions or observations are detailed in the attached Annex.

This is to certify that the sample(s) of the Product described herein has been investigated and found to have been in compliance with the Standard(s) indicated on this Certificate. This certificate and test results obtained apply only to the product sample(s) submitted by the Applicant. UL did not select the sample(s) or determine whether the sample(s) provided were representative of other manufactured products. UL has not established Follow-Up Service or other surveillance of the product. The Applicant/ Manufacturer are solely and fully responsible for conformity of all products to all applicable Standard(s), specifications or requirements. The test results may not be used, in whole or in part, in any other document without UL's prior written approval. Authorization to apply the Notified Body Identification Number adjacent to the CE Marking is not permitted for Module B Certifications. The manufacturer shall keep a copy of the EU-type examination certificate, its annexes and additions together with the technical documentation at the disposal of the national authorities for 10 years after the radio equipment has been placed on the market.

Signed

Mitsuru Fujimura
Radio Certification Section
Consumer Technology Division
UL Japan, Inc.

Signed

Tetsuya Hashimoto
Manager, Radio Certification Section
Consumer Technology Division
UL Japan, Inc.

Issue Date: *November 8, 2019*

Certificate No: *ULAR1911107*

ANNEX

SCOPE OF EXAMINATION

Article	✓or N/A	Applied standard(s) (and version) or reference
Article 3.1a (Health and Safety):	N/A	This certificate does not include safety requirements except EMF(refer next column). Applicant should confirm the applicability of these requirements individually considering the differences for all series products
Article 3.1a (EMF):	N/A	This certificate does not include EMF requirements. Applicant should confirm the applicability of these requirements individually considering the differences for all series products
Article 3.1b (EMC)	N/A	This certificate does not include EMC requirements. Applicant should confirm the applicability of these requirements individually considering the difference for all series products
Article 3.2 (Radio Spectrum use)	✓	EN 300 328 V2.1.1 Final Draft EN 303 345 V1.1.7
Article 3.3 a-i (Special Features)	N/A	No additional requirements

N/A : Not applicable

TECHNICAL DOCUMENTATION DETAILS

Title:	Technical documentation
Reference Number:	13064828H
Issue Date:	Signed day of DoC
Contact Name:	Jun OTA (Authorized representative)

GENERAL PRODUCT DETAILS

Brand / Trade Name:	JVC (KD-X472DBT, KD-X272DBT) KENWOOD (KMM-BT506DAB, KMR-M506DAB)
Model Number(s) / Type Designation:	KMM-BT506DAB, KMR-M506DAB, KD-X472DBT, KD-X272DBT / Digital Media Receiver
Build Version / Revision Level:	N/A
Software Name and Version:	N/A
Operating Frequency	BT: F1D, G1D 2402 MHz – 2480 MHz (79 channels, 1 MHz separation) FM: 87.5 MHz – 108.0 MHz (411 channels, 50 kHz separation) AM (MW): 531 kHz – 1611 kHz (121 channels, 9 kHz separation) AM (LW): 153 kHz – 279 kHz (15 channels, 9 kHz separation) DAB Band Ⅲ: 174.928 MHz – 239.200 MHz (41 channels)
Declared Output Power (dBm, e.i.r.p or e.r.p)	Maximum: BT: 4 dBm (e.i.r.p) Antenna gain: 0.25 dBi

GENERAL PRODUCT DETAILS

Additional Information	**Clock frequency:** KMM-BT506DAB, KMR-M506DAB: 2.4 GHz, 24 MHz, 32.768 kHz, 166 MHz, 125 MHz, 25 MHz, 166 MHz, 7.8 GHz – 8.2 GHz, 128 kHz, 93 kHz, 24.576 MHz, 147.456 MHz, 49.152 MHz, 98.304 MHz, 12.288 MHz, 18 MHz, 37.209375 MHz, 625 kHz KD-X472DBT, KD-X272DBT: 2.4 GHz, 24 MHz, 32.768 kHz, 166 MHz, 133 MHz, 25 MHz, 7.8 GHz – 8.2 GHz, 128 kHz, 93 kHz, 24.576 MHz, 147.456 MHz, 49.152 MHz, 98.304 MHz, 12.288 MHz, 18 MHz, 37.209375 MHz, 625 kHz **IF frequencies:** FM: 128 kHz, AM (MW): 93 kHz, AM (LW): 0 Hz, DAB: 1.536 MHz **Necessary Bandwidth:** 1 MHz (BT), 200 kHz (FM), 9 kHz (AM) **Duty cycle:** Up to 100 %
Description of Use / Function:	2.4 GHz wideband transmitter system Receiver
Manufacturers Company Name:	JVCKENWOOD Corporation
Manufacturers Address:	3-12, Moriya-cho, Kanagawa-ku, Yokohama-shi, Kanagawa 221-0022, JAPAN

PRODUCT VARIANT DETAILS

Details of Product Variant(s) covered by this Notified Body Certification:	Four models' differences are Brand name, Panel design, Target model and Preout channel on rear panel. Other differences can be assumed no difference for radio characteristics.

REMARKS, RESTRICTIONS AND OBSERVATIONS

☐ : Not applicable ■ : Applicable

■*** All standards harmonised with no transition dates listed in current OJ ***

Harmonised standards, as listed in 2018/C 326/04 of September 14, 2018 (upon publication of the RED OJ this reference will be updated accordingly to the OJ number and date of publication), were used to demonstrate compliance with each applicable article of the RED Directive. All the standards referenced are current as of the date of this evaluation and none are subject to a date of cessation of presumption of conformity.

- EN 300 328 V2.1.1 (Listed OJ 2018/C 326/04 for 2014/53/EU)

■*** All standards harmonised with no transition dates listed in current OJ ***

Harmonized standards, as listed in in 2018/C 326/04 of September 14, 2018 (upon publication of the RED OJ this reference will be updated accordingly to the OJ number and date of publication), were used to demonstrate compliance with each applicable article of the RED Directive. All the standards referenced are current as of the date of this evaluation but the following standard(s) are subject to a date of cessation of presumption of conformity as still no listed RED harmonized standards:

- Final Draft EN 303 345 V1.1.7 (NB recommends re-evaluation after formal publication and also listed in OJ. Manufacturer should be aware already this final draft had been removed.)

■*** DoC (if issues indicate them in this section – does not mean a negative result since the evaluation is related to essential requirements, but this section is to allow comments to be passed on to the manufacturer) ***

The manufacturer's declaration of conformity appropriately lists the standards used. The declaration is missing the date and place of issue, signatories name (printed) and contact address. The manufacturer is reminded that these are required to be on the declaration. The declaration is missing a batch or a serial number. The manufacturer is reminded that indication of batch or serial number in the DoC is required per the RE-D and the absence of it may cause problems with the product on the market due to inability to identify which version of DoC applies to which devices whenever the DoC is updated.

The DoC should be shipped with each device sold. This may be a shortened form as described in Article 10(9) and Annex VII.

□*** RF Exposure ***

Compliance with RF exposure requirements is based on a minimum device-to-user separation distance of xx cm. This is consistent with the anticipated use of the device and the information provided in the User's Manual.

■*** Class 1 Devices ***

The product labelling contained the CE mark as required by the Directive. The product is considered a Class 1 device as described in the *Publication in accordance with Article 1(3) of Commission Decision 2000/299/EC (Version January 2018)*. As of the date this evaluation was issued the publication was available for download from the Europa website (This information will be updated once the RED information is available on the Europe website).

Applicable Class 1 driven the frequencies by following standards

- Final Draft EN 303 345 V1.1.7 for receiver
- EN 300 328 V2.1.1

□*** Class 2 Devices *** (As there are no subclasses of Class 2 anymore under the RE Directive, used in the sense that it is not Class 1)

The product labelling contained the CE mark as required by the Directive. The product contains operations in the W52 and W53 band are subject to restrictions on use. Notification according to article 6.4 of the directive (aka Country Notifications) do not apply as this Class 2 equipment falls under the scope of equipment that is technically fully harmonised, but for which restrictions for use may apply. (This information will be updated once the RED information is available on the Europe website). The proposed packaging and manual for this device follows the requirements as to how to present the information required by Article 10(10) defined in Commission Implementing Regulation (EU) 2017/1354.

☐*** Notes for modules ***

This evaluation is limited to the module. Compliance with essential requirements related to use of the radio spectrum is adequate to cover most host systems intended for use in indoor/outdoor locations and providing a stable voltage (+/- X% of nominal YY Volts) to the module over a +/-15% input voltage range to the host system. Additionally the temperature range internal to the host should be within the range XX°C to YY°C. Additional, host-level evaluation is required for host systems using this module to demonstrate compliance with the essential requirements of the Radio Equipment Directive not covered by the module testing including, but not limited to, EMC, safety (rf exposure and LVD). System integrators may find the following ETSI technical reports of use when performing evaluations of the final product:

- ETSI EG 203 367 V1.1.1 (2016-06) Guide to the application of harmonised standards covering articles 3.1b and 3.2 of the Directive 2014/53/EU (RED) to multi-radio and combined radio and non-radio equipment

In addition, Guidance Note 01 published by the RED CA contains guidance on requirements for host system incorporating radio modules.

This certificate will be only validated for manufacturer's intended installation.

END OF CERTIFICATE