

EU-TYPE EXAMINATION (MODULE B) CERTIFICATE

Radio Equipment Directive (RED) 2014/53/EU

PHOENIX TESTLAB
Notified Body Number **0700**



This is to certify that:
PHOENIX TESTLAB did undertake the relevant type examination procedures for the radio equipment identified below which was found to be in compliance with the essential requirements of Radio Equipment Directive (RED) 2014/53/EU subject to any conditions in the annex attached hereto.

Certificate No.	18-211514
Manufacturer	TYT Electronics Co.,Ltd
Address	Block 39-1, Optoelectronics-information industry base, Nan'an, Quanzhou, Fujian, China
Product Description	DMR Digital Transceiver; with PMR
Brand Name / Model Name	TYT / MD-UV380, MD-UV380G, MD-UV390

The radio equipment meets the following essential requirements

Article 3.1 a): Health and Safety	Conform
Article 3.1 b): Electromagnetic Compatibility	Conform
Article 3.2: Effective and Efficient Use of Radio Spectrum	Conform
Additional Essential Requirements:	Not applicable

Date of issue	2018-07-11	Expiry date:	2023-07-10
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This certificate remains valid unless cancelled or revoked, provided the conditions in the attached annex are complied with. The conditions for the validity of this certificate are listed in the Annex.

The attached Annex forms part of this certificate. This certificate consists of 4 pages.



Signed by Wayne Hsu
Notified Body

Annex

Technical description

Frequency Range	136 - 174 MHz 400 - 480 MHz
Operating Frequencies	136.025 - 173.975 MHz 400.025 - 479.975 MHz
Channel Spacing	FM mode: 12.5 KHz / 25 KHz 4FSK mode: 12.5 KHz
Transmit Power	5W/1W
Hardware Version	UV-V2.1-171109
Software Version	V1.06

System Components

Battery 1 (MD-UV390)	TYT Electronics Co., Ltd MD-390, 7.4V/ 2200mAh
Battery 2 (MD-UV380, MD-UV380G)	TYT Electronics Co., Ltd MD-380, 7.4V/ 2000mAh
Antenna	TYT Electronics Co., Ltd TYT, 1.5dBi

Optional Components

Charger 1 (MD-UV390)	TYT Electronics Co., Ltd, CH390 Input: DC 12V, 0.5A Output: DC 8.4V, 0.5A
Charger 2 (MD-UV380G, MD-UV390)	TYT Electronics Co., Ltd, CH380 Input: DC 12V, 0.5A Output: DC 8.4V, 0.5A
Adapter	Refer to Limitations / Restrictions

Approval documentation

External / Internal Photos	EUT Photo, 8/10/12 pages
User Manual	Provided, 48 pages
Block Diagram	Provided, 1 page
Circuit Diagram	Provided, 6 pages
Operational Description	Circuit description, 2 pages
PCB Layout / Parts Placement	Provided, 10 pages
Parts List	Provided, 3 pages
EU Declaration of Conformity	2 pages, June 28, 2018
Explanation of compliance Article 10(2) and Article 10(10)	Declaration of Operation in Member States and application for certification, 1 page, June 28, 2018
Further Documents	Risk Assessment, 5 pages, July 10, 2018 Declaration on model difference, 1 page, June 28, 2018


Applied Standards and Test Reports

Specification	Laboratory	Test Report Number / Version
For model: MD-UV380, MD-UV380G		
EN 60950-1:2006+A11:2009+ A1:2010+A12:2011+A2:2013	Attestation of Global Compliance (Shenzhen) Co., Ltd.	AGC02931180501ES01
EN 62209-2:2010 EN 50566:2017	Attestation of Global Compliance (Shenzhen) Co., Ltd.	AGC02931180501EH01
Draft ETSI EN 301 489-1 V2.2.0 Draft ETSI EN 301 489-5 V2.2.0	Attestation of Global Compliance (Shenzhen) Co., Ltd.	AGC02931180501EE01 V1.1
ETSI EN 300 086 V 2.1.2 ETSI EN 300 219 V 2.1.1	Attestation of Global Compliance (Shenzhen) Co., Ltd.	AGC02931180501EE13
ETSI EN 300 113 V2.2.1	Attestation of Global Compliance (Shenzhen) Co., Ltd.	AGC02931180501EE14
For model: MD-UV390		
EN 60950-1:2006+A11:2009+ A1:2010+A12:2011+A2:2013	Attestation of Global Compliance (Shenzhen) Co., Ltd.	AGC02931180505ES01
EN 62209-2:2010 EN 50566:2017	Attestation of Global Compliance (Shenzhen) Co., Ltd.	AGC02931180505EH01
Draft ETSI EN 301 489-1 V2.2.0 Draft ETSI EN 301 489-5 V2.2.0	Attestation of Global Compliance (Shenzhen) Co., Ltd.	AGC02931180506EE01 V1.1
ETSI EN 300 086 V 2.1.2 ETSI EN 300 219 V 2.1.1	Attestation of Global Compliance (Shenzhen) Co., Ltd.	AGC02931180506EE13
ETSI EN 300 113 V2.2.1	Attestation of Global Compliance (Shenzhen) Co., Ltd.	AGC02931180506EE14

Limitations / Restrictions

- Operating Temperature range is -10 - +40 degree Celsius.
- Body SAR with belt clip Separation distance is 0mm Front-of-Body and 25mm for Front-of-Face.
- Restrictions for use shall be stated by the manufacturer, completed in the instructions accompanying the radio equipment. This could relate to frequency spectrum use and licence requirements.
- The provided AC/DC adapter (has not been considered for the RED assessment) is:
Manufacturer: TYT Electronics Co., Ltd
Brand name: N/A, Model name: MD-UV380/ MD-UV390
Input:100-240V, 50/60Hz, 0.6A; Output: 12V/0.5A
The related safety report: AGC02931180501ES02

Notes

1. This certificate will not be valid if the manufacturer makes any changes or modifications to the approved equipment, which have not been notified to, and agreed with PHOENIX TESTLAB.
2. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/them being placed on the market.
3. The manufacturer shall take all measures necessary so that the manufacturing process and its monitoring ensure conformity of the manufactured radio equipment with the approved type described in the EU-type examination certificate and with the requirements of Directive 2014/53/EU that apply to it.
4.  The manufacturer shall affix the CE marking to each item of radio equipment that is in conformity with the type described in the EU-type examination certificate and satisfies the applicable requirements of the Directive.
5. The manufacturer shall draw up a written EU declaration of conformity for each radio equipment type and keep it at the disposal of the national authorities for 10 years after the radio equipment has been placed on the market. The EU declaration of conformity shall identify the radio equipment type for which it has been drawn up. A copy of the EU declaration of conformity shall be made available to the relevant authorities upon request.