Digital Yacht Ltd
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DECLARATION OF CONFORMITY to Directive 2014/53/EU

We, Digital Yacht Ltd, hereby declare that the Product known as AIT2000 AIS Class B CSTDMA Transceiver, to which this declaration relates, is in conformity with the relevant sections of the following standards and/or other normative documents.

Standard Reference	Article of Directive 2014/53/EU	Test Report No
	Health and safety - Article 3.1(a)	
EN 60950-1:2006/A2:2013		B961TR1
IEC 60945:2002-08		B961TR1
	EMC - Article 3.1(b)	
IEC 60945:2002-08		17R514 CR
EN 301 843-1 v2.1.1		17R514 CR
IEC 62287-2:2017	Radio Spectrum - Article 3.2	B961TR1
IEC 61108-1: 2003-07		B961TR1
IEC 62287-1:2010-11 +A1:2013	Access to Emergency Services - Article 3.3(e)	17R514 CR

We also declare that all essential radio test suites have been carried out and that the above-named product is in conformity with the essential requirements of Directive 2014/53/EU applicable to a Marine Class B CSTDMA AIS Transceiver.

Frequency Range	Power Output	Tolerance
156.025-162.025 MHz	2.113 W	4.0900000000ppm

An internal GNSS antenna, power and data cable are provided to enable the product to operate as intended in line with optimum performance. The AIT2000 is pre-loaded with application software v040200.02.03.00.

The conformity assessment procedure for Directive 2014/53/EU Articles 3.2 and 3.3 has been followed with the involvement of the following Notified Body:

TUV SUD BABT. Octagon House, Concorde Way, Segensworth North, Fareham, Hampshire PO15 5RL England. Identification mark: 0168.

Signed

Nicholas Heyes
Chief Executive Officer
Digital Yacht Limited

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Old Weston Road
Flax Bourton
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Registered in the UK 04838747

Appendix
RF Module Specification

AIS Module

VHF Transceiver

Transmitter:	x 1
Receiver:	x 2 (Receivers time shared between AIS and DSC)
Frequency:	156.025 to 162.025 MHz in 25 kHz steps
Output Power:	CSTDMA 33dBm ± 1.5 dB
Channel Bandwidth:	25kHz
Channel Step:	25kHz
Modulation Modes:	25kHz GMSK (AIS, TX and RX) 25kHz AFSK (DSC, RX only)
Bit rates:	9600 b/s ± 50 ppm (GMSK) 1200 b/s ± 30 ppm (FSK)

Receiver Performance

Sensitivity:	107dBm at 20% PER
Co-channel:	10dB
Adjacent channel:	70dB
IMD:	65dB
Blocking:	84dB