

European Community Declaration of Conformity
Issued in accordance with the
Marine Equipment Directive (MED)

This to certify that in compliance with Council Directive 96/98/EC of 20 December 1996 on marine equipment, as amended by Commission Directives 2011/75/EU of the European Parliament and of the Council:

Kelvin Hughes Ltd
Voltage
Mollison Avenue
Enfield, EN3 7XQ
England

Declares that the products listed in Annex A conform to type as required by the above Directive as evidenced by the Conformity Route below:

EC Type Examination Module B certificate No BAPT-MED001083 issued by Notified Body TÜV SÜD BAPT (No 0168) expires 19th September 2015.

Plus

EC Module D Certificate of Conformity No MED 1100013 issued by Notified Body Lloyds Register (No 0038)

MED Annex A.1	Item No	4.34
	Item Designation	Radar equipment CAT 1

MED Annex A.1	Item No	4.38a
	Item Designation	Radar equipment CAT 1 with chart option

Kelvin Hughes Product Description	SharpEye MantaDigital S Band CAT1 Marine Radar and CAT1C Marine Chart Radar Systems
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Standards Applicable	Resolution MSC.191(79)
	Resolution MSC.192(79)
	Resolution A694(17)
	IEC 62388:2007
	IEC 60945:2002
	IEC 62288:2008
	IEC 61162-1:2010
	IEC 61162-2:1998

Annex A – Product List

Product Identity	Description
DTX-A1	SharpEye Solid State Transceiver / Turning Mech
FSD-A10	Dual DNC Unit
FSD-A13	Network Audio & Video Control Unit
FSD-A198	Serial Interface Module
GTX-A24	Drive Control Unit
IT-SM-8x-AV-LCD	NTI Audio & Video Switch Matrix
LPA-A3	3.9m S Band Low Profile Antenna
MDD-A100	MantaDigital Trackerball & Pencil Tray
MDD-A101	MantaDigital Trackerball & Keyboard
MDD-A102	MantaDigital Trackerball & Control Panel
MDD-A110	MantaDigital Trackerball
MDD-A1-26	MantaDigital 26" Display Navigation Pedestal
MDD-A130	MantaDigital Remote Keyboard
MDD-A20-26	MantaDigital 26" Console Display
MDD-A30-26	MantaDigital 26" Desktop Display (incorporating MDD-A101)
MDD-A9-26	MantaDigital 26" Pedestal Display and Radar Processor inc Trackerball
MDP-A1	MantaDigital Navigation Processor
MDP-A9	MantaDigital Radar Processor
NNR-A18	Ergonomic Trackerball (Ergopod right handed)
NNR-A18-2	Ergonomic Trackerball (Ergopod left handed)
ZM-2007	Manta Display firmware
ZM-2008	Manta Systems Interface firmware
ZM-2114	Manta Transmitter Interface firmware
ZM-2144	MantaDigital core software
ZM-2160	Manta Transmitter Interface FPGA
ZM-2165	SharpEye core software
ZM-2166	DTX-A101 FPGA software
ZM-2234	DTX-A201 FPGA software

Issued for and on behalf of Kelvin Hughes Ltd.

Signed:  on 07-11-2012

N. Richards
Quality Manager