

**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 BABT-MED001082 issued by Notified Body TÜV SÜD BABT (No 0168) expires 19<sup>th</sup> 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	4.37
	Item Designation	Radar equipment for high speed craft CAT 2H
MED Annex A.1	Item No	4.38d
	Item Designation	Radar equipment for high speed craft CAT 2HC with chart option
Kelvin Hughes Product Description		SharpEye MantaDigital S & X Band high speed craft CAT2H Marine Radar and CAT2HC Chart Radar Systems

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
	ITU Recommendation M.1177-3:2006

## Annex A – Product List

Product Identity	Description
CAE-A30-21	10kW X Band Transceiver / Turning Mech (High Speed)
CAE-A30-21	25kW X Band Transceiver / Turning Mech (High Speed)
CTX-A8	25kW X Band Transceiver – Bulkhead Mounting
CTX-A9	Mk 7 30kW 30kW Transceiver– Bulkhead Mounting
FSD-A10	Dual DNC Unit
FSD-A13	Network Audio & Video Control Unit
FSD-A198	Serial Interface Module
GTX-A11	Manta Turning Mech
GTX-A16	Manta 30kW Transceiver / Turing Mech
GTX-A24	Drive Control Unit
IT-SM-8x-AV-LCD	NTI Audio & Video Switch Matrix (x channel)
LPA-A1	3.9m S Band Low Profile Antenna
LPA-A13	1.3m X Band Low Profile Antenna
LPA-A19	1.9m X Band Low Profile Antenna
LPA-A25	2.5m X Band Low Profile Antenna
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-A12	MantaDigital Radar Interswitch Unit
MDD-A1-20	MantaDigital 20" Pedestal Display and Radar Processor
MDD-A1-22	MantaDigital 22" Pedestal Display and Radar Processor
MDD-A130	MantaDigital Remote Keyboard
MDD-A20-20	MantaDigital 20" Console Display
MDD-A20-22	MantaDigital 22" Console Display
MDD-A30-20	MantaDigital 20" Desktop Display (incorporating MDD-A101)
MDD-A30-22	MantaDigital 22" Desktop Display (incorporating MDD-A101)
MDD-A9-20	MantaDigital 20" 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

Issued for and on behalf of Kelvin Hughes Ltd.

Signed:  on 07-11-2012

N. Richards  
Quality Manager