



Raymarine Limited
 Anchorage Park
 Portsmouth
 Hampshire PO3 5TD
 England
 023 9269 3611 ext 1307
 023 9269 4642 (Fax)

www.raymarine.com

Telecommunication Certification Body
 BABT
 Balfour House
 Churchfield Road
 Walton on Thames
 Surrey KT12 2TD

10th September 2007

Attention: Mr Alan Binks

Dear Sir,

Application for Grant of FCC Equipment Authorization

Please find enclosed a CD ROM that contains the Application Forms and Exhibits from Raymarine for our new 4kW Digital Open Array Radar Scanners.

There are two variants, known as High Definition and Super High Definition. The hardware is identical for both models; the difference is in the enabling of additional software functions , collectively known as 'Seahawk', for the SHD model. This software carries out further digital signal processing at the IF and post-IF receiver stages. It has no effect upon the transmitter performance characteristics. It is considered that all test reports, which are for the SHD model, apply equally to the HD model, and we are using a single FCC ID (PJ5-DP4KW) for both variants. There is a separate power module, which converts the vessels 12 or 24V dc supply to the 42V dc needed by the scanner. Both models are intended to operate with our E-Series or G-series networked multifunction display units. These displays do not form part of this application for Equipment Authorization, though information explaining connection and operation is included.

The hardware and software in both models is the subject of patent applications and we therefore request maximum confidentiality in all matters relating to this application.

Part numbers for the Voltage Conversion Module and for the radar scanners with and without an open array antenna are given below:

- Raymarine 4kW Digital High-Definition Open Array Scanner..... E52069**
- Raymarine 4kW Digital High-Definition Open Array Scanner with 48" Antenna..... RA1048HD**
- Raymarine 4kW Digital High-Definition Open Array Scanner with 72" Antenna..... RA1072HD**
- Raymarine 4kW Digital Super High-Definition Open Array Scanner..... E52081**
- Raymarine 4kW Digital Super High-Definition Open Array Scanner with 48" Antenna..... RA1048SHD**
- Raymarine 4kW Digital Super High-Definition Open Array Scanner with 72" Antenna..... RA1072SHD**
- Raymarine Voltage Conversion Module VCM100..... E52091**

The information on the CD ROM has been organized as Exhibits containing:

- Circuits and Interconnections
- External Photographs
- BABT 731 Application Form
- Internal Photographs
- Label Details
- Parts List
- RF Exposure Statement
- Test Reports, which include Test Setup Photographs
- Manuals
- Technical Description including Block Diagram
- Tune-Up Statement
- Request for Confidentiality
- Application Letter

Please note that these applications are made under FRN **0013-3487-27**.

I believe the information provided should meet your requirements, but if you need any further information or clarification, please do not hesitate to contact me.

Sincerely,



Peter Bowen,
EMC Team Leader,
Raymarine UK Limited
peter.bowen@raymarine.com