

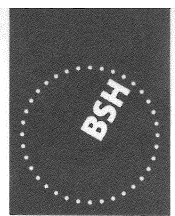


Bundesrepublik Deutschland

Federal Republic of Germany

Bundesamt für Seeschifffahrt und Hydrographie

Federal Maritime and Hydrographic Agency



BUNDESAMT FÜR
SEESCHIFFFAHRT
UND
HYDROGRAPHIE

EC TYPE EXAMINATION (MODULE B) CERTIFICATE

This is to certify that:

Bundesamt für Seeschifffahrt und Hydrographie, specified as a "notified body" under the terms of „Schiffssicherheitsgesetz“ of 9. September 1998 (BGBl. I, p. 2860) modified last 28. June 2006 (BGBl. I, p. 1417), did undertake the relevant type approval procedures for the equipment identified below which was found to be in compliance with the Navigation requirements of Marine Equipment Directive (MED) 96/98/EC as modified by Directive 2002/75/EC.

Applicant **SAM Electronics GmbH**
Address **Behringstraße 120, 22763 Hamburg**
Manufacturer **Japan Marina Co. Ltd (JMC)**
Address **30-2-1001 Udagawa Cho, Shibuya-Ku, TOKYO 150, JAPAN**
Annex A.1 Item (No & item designation) **4.6 Echo sounding equipment**
Product Name **SAM 4620 / JMC F-2000**
Trade Name(s)

Specified Standard(s)

IMO-Resolution A.224 (VII) as amended by	EN ISO 9875 (2001)
IMO-Resolution MSC.74 (69) Annex 4	ISO 9875 (2000)
IMO-Resolution A.694 (17)	EN 60945 (2003), IEC 60945 (2002)
	EN 61162-1 (2001), IEC 61162-1 (2000)

This certificate remains valid unless cancelled, expired or revoked.

Date of issue: **2006-08-11**

Issued by: **Bundesamt für Seeschifffahrt und Hydrographie
Bernhard-Nocht-Str. 78, 20359 Hamburg, Germany
Notified body 0735**

Expiry date: **2011-08-10**

Certificate No.: **BSH/4612/4060208/06**

This certificate consists of 2 pages.



by order

Schulz-Reifer

Schulz-Reifer



Components necessary for operation:

See annex to this certificate

Approval Documentation:

Limitations on the acceptance or use of the product:

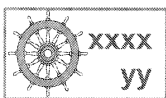
Places of production:

Notes:

The manufacturer shall inform Bundesamt für Seeschifffahrt und Hydrographie, as the notified body, of any modifications to the type-tested product(s) that may affect compliance with the requirements or conditions laid down for use of the product(s).

In case the specified regulations or standards are amended during the validity of this certificate, the product(s) must be re-certified before being placed on board vessels to which such amended regulations or standards apply.

The Mark of Conformity (wheelmark) may only be affixed to the type approved equipment, and a Manufacturer's Declaration of Conformity may only be issued, if the product quality system fully complies with the Marine Equipment Directive and is certified by a notified body against ANNEX B module D, E, or F of the Directive.

Example for the Application of the "Mark of Conformity":

xxxx
yy

number of the Notified Body responsible for quality surveillance module
Last two digits of the year in which the mark is affixed.

Notice on legal remedies available:

Objection to this document may be filed within one month after notification. The objection must be filed in writing to, or put on record at, Federal Maritime and Hydrographic Agency, Bernhard-Nocht-Str. 78, 20359 Hamburg, Germany

ANNEX TO
EC TYPE EXAMINATION (MODULE B) CERTIFICATE
No.: BSH/4612/4060208/06

Components necessary for operation:

No.	Designation	Type designation
1	Main Unit	SAM 4620 / JMC F-2000
2	Echo sounding transducer	Atlas SW 6016
3	Echo sounding transducer	Radarsonic 570-50
4	Echo sounding transducer	ELAC LSE 297
5	Echo sounding transducer	ELAC LSE 313

Additionally options:

No.	Designation	Type designation
1	digital display	Plath UDR
2	digital display	Skipper IR 301
3	digital display	9205 T / ELAC DAZ 25 / DEBEG 4650 T / FILIA 522
4	digital display	SAM 4900