



MARINE DIVISION

Certificate number: 26024/A0 BV

File number: AP 4238

Product code: 4482H

*This certificate is not valid when presented without the
full attached schedule composed of 7 sections*

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TYPE APPROVAL CERTIFICATE

This certificate is issued to

Beijer Electronics GmbH & Co. KG
Unterensingen - GERMANY

for the type of product

MARITIME PERSONAL COMPUTERS

Maritime Panel PC of series: EPC (T)150/170/190 C2D,
Maritime Box PC of type: EPC Box C2D

Requirements:

Bureau Veritas Rules for the Classification of Steel Ships

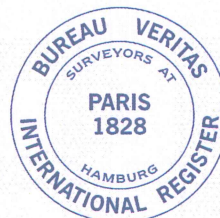
This certificate is issued to attest that BUREAU VERITAS did undertake the relevant approval procedures for the product identified above which was found to comply with the relevant requirements mentioned above.

This certificate will expire on: 22 Sep 2016

For BUREAU VERITAS,

At BV HAMBURG, on 22 Sep 2011,

Dirk Hoepfner



This certificate remains valid until the date stated above, unless cancelled or revoked, provided the conditions indicated in the subsequent page(s) are complied with and the product remains satisfactory in service. This certificate will not be valid if the applicant makes any changes or modifications to the approved product, which have not been notified to, and agreed in writing with BUREAU VERITAS. Should the specified regulations or standards be amended during the validity of this certificate, the product(s) is/are to be re-approved prior to it/they being placed on board vessels to which the amended regulations or standards apply. This certificate is issued within the scope of the General Conditions of BUREAU VERITAS Marine Division available on the internet site www.veristar.com. Any Person not a party to the contract pursuant to which this document is delivered may not assert a claim against BUREAU VERITAS for any liability arising out of errors or omissions which may be contained in said document, or for errors of judgement, fault or negligence committed by personnel of the Society or of its Agents in establishment or issuance of this document, and in connection with any activities for which it may provide.

THE SCHEDULE OF APPROVAL

1. PRODUCT DESCRIPTION:

The **EPC (T)150/170/190 C2D** series are personel computers with monitors for the mounting in a cut out of a console, cabinet or rack.

EPC Box C2D is a personel computer without monitor for the mounting inside of a console, cabinet or rack.

Main characteristics:

Ports: 2x RS232, DVI, VGA, 2x Ethernet, 2x PS/2, 2x PCI slot,
1x Compact Flash, 3x Audio ports, 5x USB (for Box PC: 4x USB),
Processor: Intel Core 2 Duo
Operating System: Windows XP
Software version: V0003
Degree of protection: IP20, IP65 (front, not for box version)

Variants: **EPC a bbb C2D Nautic cc**

a = Monitor type

: Glas screen (standard)

T: Touch screen, resistive (optional)

bbb = Monitor size (optional)

150: 15" pixels: 1024x768, TN

170: 17" pixels: 1280x1024, PVA

190: 19" pixels: 1280x1024, SPVA

cc = Power supply

AC: 230V AC

DC: 24V DC

Variants: **EPC Box C2D Nautic aa**

aa = Power supply

AC: 230V AC

DC: 24V DC

2. DOCUMENTS AND DRAWINGS:

Installation manual: MAEN979B dated 2010-08

3. TEST REPORTS:

RMS Regelungs- und Messtechnik

- 02-03/2009 dated 2009-04-24

- 03-03/2009 dated 2009-03-28

Meßtechnik Nord GmbH

- 05963.045_1.09 dated 31.03.2009

- 05963.046_1.09 dated 31.03.2009

4. APPLICATION/LIMITATION:

4.1 - BUREAU VERITAS Rules and Regulations for the Classification of Steel Ships.

4.2 - Approval valid for ships intended to be granted with the following additional class notations: **AUT-UMS, AUT-CCS, AUT-PORT and AUT-IMS.**

4.3 - BUREAU VERITAS Environmental Category, **EC Code: 31, 21** for the front of 17" and 19" panels.

4.4 - The equipment fulfils the EMC requirements for installation on the Bridge and Deck Zone.

4.5 - The equipment, once installed on board ship, is to be tested in accordance with the above refered regulations under the supervision of a Society's Surveyor.

4.6 - Documents relating to each application are to be submitted to the Society's examination prior fitting on board.

4.7 - Only Hardware and Firmware / Software successfully tested together in compliance with the regulations as referred to in page one, according to the declaration of the manufacturer are covered by this certificate.

4.8 - The installation and the minimum safe distance to a magnetic compass shall comply with the Manufacturer's recommendation described in the above-referenced documentation.

4.9 - The monitors are not intend for the presentation of navigation-related information on the bridge of a ship.

5. PRODUCTION SURVEY REQUIREMENTS:

5.1 - The above mentioned products are to be manufactured, examined and tested by **Beijer Electronics GmbH & Co.KG** in accordance with the type described in this certificate and Bureau Veritas Rules for the Classification of Steel Ships.

5.2 - Production sites are to be recognized by Bureau Veritas as per NR320 for HBV products. To this end **Beijer Electronics GmbH & Co.KG** has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.

5.3 - **Beijer Electronics GmbH & Co.KG** has declared to Bureau Veritas that the types of product described in this certificate are manufactured at the following production site:

Beijer Electronics GmbH & Co.KG
Kelterstraße 59
72669 Unterensingen
GERMANY

5.4 - Each equipment is to be supplied with manual(s) for installation, use and maintenance.

6. MARKING OF PRODUCT:

- Maker's name or trade mark.
- Date of manufacture and/or serial number.
- Equipment type or model identification under which it was type-tested
- The title and version of each software element included in the installed software system shall be either marked or displayed on command on the equipment.
- When the marking and the title and version of the software are displayed only on the display, such information shall also be included in the equipment manual.

7. OTHERS:

This approval is given on the understanding that the Society reserves the right to require check tests to be carried out on the units at any time and that **Beijer Electronics GmbH & Co.KG - GERMANY**, will accept full responsibility for informing shipbuilders, shipowners or their sub-contractors of the proper methods of use and general maintenance of the units and the conditions of this approval.

*** END OF CERTIFICATE ***