DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. **A-12071**

This is to certify that the
Peripheral Equipment

with type designation(s)
Industrial PC & Industrial Panels PS3711A, PS3451A, PS3001

Manufactured by

DIGITAL ELECTRONICS CORPORATION
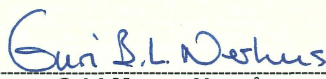### 8-2-52 Nankohigashi, Suninoe-Ku, Osaka, Japan

is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards
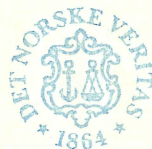
Application

Location classes:

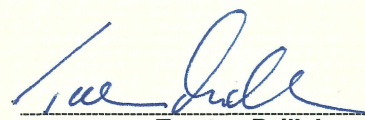| Temperature	A
Humidity	B
Vibration	A
EMC	A/B*
Enclosure	C

Høvik, 2011-05-11
for **Det Norske Veritas AS**

Odd Magne Nesvåg
Head of Section

DNV local office:
Rotterdam

This Certificate is valid until
2014-12-31

Torsten Dzillak
Surveyor

Product description

Touchscreen Graphic Terminals with type designations:
*PS3451A-T41-24V-xx-xxxx, PS3001-BD-xx-xxxx (EMC B)
*PS3711A-T42-24V-xx-xxxx (EMC A)

x means variation on Operating System & pre-install packs or processor memory.

Places of manufacture

Wuxi Pro-face Electronics Co., Ltd
20 Hanjiang Road
National Hi-tech Industrial development Zone,
Wuxi, Jiangsu, 214028
P.R.CHINA

Digital Electronics Corporation
2-6-1 Ayumino, Izumi, Osaka
594-1157 Japan

Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

Product certificate
Each delivery of the application system is to be certified according to Pt.4 Ch.9 Sec.1. The certification test is to be performed at the manufacturer of the application system according to an approved test program before the system is shipped to the yard. After the certification the clause for application software control will be put into force.

Clause for application software control
All changes in software are to be recorded as long as the system is in use on board. The records of all changes are to be forwarded to DNV for evaluation and approval. Major changes in the software are to be approved before being installed in the computer.

Type Approval documentation

Pro-face Industrial Personal Computer and Flat Panel Monitor brochure

Test reports	Date
RDE00911	2007-07-18
RDE00916	2007-07-23
RDE 00915	2007-07-18
RDE 00918	2007-07-18
RDE 00912	2007-07-18
RDE 00913	2007-07-18
0902M01V	2009-02-27
0902M03V	2009-03-04
0902M02E	2009-03-04
200901889_001	2009-01-14
R0811352C-E-C	2008-01-26
0910M01C	2009-09-29
0910M01V	2009-09-30
0910M02V	2009-10-05
0910M03V	2009-10-05
0910M04V	2009-10-05
0910M05V	2009-11-23
200903453_001	2009-10-21
R0909316C-E-C	2009-09-14
RDE000838	2007-08-06

DET NORSKE VERITAS AS, Veritasveien 1, NO-1322 Høvik, Norway, Tel.: +47 67 57 99 00, Fax: +47 67 57 99 11, Org.No. NO 945 748 931 MVA   www.dnv.com
Form No.: TA 1411a   Issue: October 2009

Page 2 of 3

Tests carried out

Applicable tests according to Standard for Certification No. 2.4, April 2006.

Certificate retention survey

The scope of the retention/renewal survey is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the survey are:
- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Retention survey is to be performed at least every second year and at renewal of this certificate.

END OF CERTIFICATE