

**MARINE DIVISION**

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Certificate number: 19703/A1 BV

File number : AP 3775

Product code : 4483H

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

## TYPE APPROVAL CERTIFICATE

*as per Bureau Veritas Classification Rules*

*This certificate is issued to*

### Digital Electronics Corporation

Osaka - JAPAN

*for the type of product*

### DISPLAY MONITORS / VIDEO SCREENS / TERMINALS

Graphic panels type: ST and AGP series.

**Regulations and standards :**

BV 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 of the Regulations and standards mentioned above.*

**This certificate is valid until : 05 Oct 2012**

At Paris la Défense, on : 20 Dec 2007

**For BUREAU VERITAS,**  
By order of the Secretary

Approval office

Local office : BV KOBE  
Surveyor : Y. Hiramatsu

L. COURREGELONGUE



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. 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 :

Graphic panels type: ST and AGP series.

<b>Table 1/2- Graphic panels type: ST and AGP series</b>	
Commercial reference	title
<b>ST401-AG41-24V</b>	Display 3"8 QVGA Touch Screen, 24V DC supply, 6 function keys, 1 color backlit (Amber) and one serial line RS232C port
<b>ST403-AG41-24V</b>	Display 3"8 QVGA Touch Screen, 24V DC supply, 6 function keys, 2 colors backlit (Amber & Red ) and one serial line RS232C/422 port and one Ethernet 10BaseT port.
<b>AGP3300-T1-D24</b>	Display 5"7 QVGA Touch Screen, 24V DC supply, TFT screen 65536 colors, two serial lines RS232C/422/485-SubD9 port and RS422/485-SubD9 port, one USB port, one Compact Flash slot, one Ethernet 10/100BaseTX port.
<b>AGP3400-T1-D24</b>	Display 7"5 VGA Touch Screen, 24V DC supply, TFT screen 65536 colors, two serial lines RS232C/422/485-SubD9 port and RS422/485-SubD9 port, one USB port, one Compact Flash slot, one auxiliary interface and Ethernet 10/100BaseTX port
<b>AGP3450-T1-D24</b>	Display 7"5 VGA Touch Screen, 24V DC supply, TFT screen 65536 colors, two serial lines RS232C/422/485-SubD9 port and RS422/485-SubD9 port, one USB port, one Compact Flash slot, one auxiliary interface and Ethernet 10/100BaseTX port, one Camera and microphone inputs.
<b>AGP3500-T1-D24</b>	Display 10"4 VGA Touch Screen, 24V DC supply, TFT screen 65536 colors, two serial lines RS232C/422/485-SubD9 port and RS422/485-SubD9 port, two USB ports, one Compact Flash slot, one auxiliary interface and Ethernet 10/100BaseTX port.
<b>AGP3550-T1-D24</b>	Display 10"4 VGA Touch Screen, 24V DC supply, TFT screen 65536 colors, two serial lines RS232C/422/485-SubD9 port and RS422/485-SubD9 port, two USB ports, one Compact Flash slot, one auxiliary interface and Ethernet 10/100BaseTX port, one Camera and microphone inputs.

<b>Table 2/2- Graphic panels type: ST and AGP series</b>	
Commercial reference	title
<b>AGP3600-T1-D24</b>	Display 12"1 SVGA Touch Screen, 24V DC supply, TFT screen 65536 colors, two serial lines RS232C/422/485-SubD9 port and RS422/485-SubD9 port, two USB ports, one Compact Flash slot, one auxiliary interface and Ethernet 10/100BaseTX port.
<b>AGP3650-T1-D24</b>	Display 12"1 SVGA Touch Screen, 24V DC supply, TFT screen 65536 colors, two serial lines RS232C/422/485-SubD9 port and RS422/485-SubD9 port, two USB ports, one Compact Flash slot, one auxiliary interface and Ethernet 10/100BaseTX port., one Camera and microphone inputs.
<b>AGP3750-T1-D24</b>	Display 15" XGA Touch Screen, 24V DC supply, TFT screen 65536 colors, two serial lines RS232C/422/485-SubD9 port and RS422/485-SubD9 port, two USB ports, one Compact Flash slot, one auxiliary interface and Ethernet 10/100BaseTX port., one Camera and microphone inputs.

### 2. DOCUMENTS AND DRAWINGS :

2.1 - Manufacturer's user manual ref. 35010372 02 eng.

2.2 - Schneider multiple listing authorization dated 15/Mar./2007.

**3. TEST REPORTS :**

According to Schneider test reports:

Test reports N°	dates of issuance
0510S01C, 0510S02C 0510S03C	31/12/2005 14/08/2006
0510S01V, 0510S02V 0510S05V, 0510S06V 0510S07V, 0510S10V 0510S08V 0510S12V, 0510S14V, 0510S15V, 0510S16V 0510S10V, 0510S17V	29/09/2005 21/02/2006 12/12/2005 21/11/2005 02/08/2006 31/10/2006
2006-0412-00, 2006-0412-01, 2006-0412-02, 2006-0412-03, 2006-0412-04, 2006-0412-05	25/07/2006 "-"
2006-134-01A, 2006-134-02A, 2006-134-03A 2006-134-04A	24/08/2006 "-"
0510S11V+ R0510281C1-E 2006-134-05, 2006-134-06, 2006-134-07 2006-134-08	31/12/2005 10/11/2006 "-"
0510S04V+R0510281C2-E 0510S09V+ R0510281C1-E 200604-3056C-R1E 0510S18E+ 200604-3056C-R2E, 200604-3056C-R3E, 200604-3056C-R4E	31/12/2005  19/12/2005 10/07/2006 11/03/2006 10/07/2006 "-"

**4. APPLICATION / LIMITATION :**

4.1 - According to BUREAU VERITAS Rules for the Classification of Steel Ships and to the Manufacturer's requirements.

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

4.3 - In order to lower the conducted and radiated emissions, the equipment listed in clause I shall be fitted in appropriate shielded cabinets and used with screened cables, as referred to in Instruction Sheet N° 35015283 00.

4.4 - In order to lower the conducted emissions, the power supplies of equipment listed in clause I shall be fitted with appropriate on line filters, as referred to in Instruction Sheet N° 35015283 00.

4.5 - An isolating DC/DC converter is to be added to those equipment whose power supply is grounded by design. The converter must be type approved.

**5. PRODUCTION SURVEY REQUIREMENTS :**

5.1 - The **Graphic panels type ST and AGP series** are to be manufactured, examined and tested by **Digital Electronics Corporation (Osaka - JAPAN)** 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 **Digital Electronics Corporation (Osaka - JAPAN)** has to make the necessary arrangements for a Society's Surveyor to perform visits and product audits at the production sites.

5.3 - **Digital Electronics Corporation (Osaka - JAPAN)** has declared to Bureau Veritas that the type of product described in this certificate are manufactured at the following production sites:

**Wuxi ProFace 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**

**6. MARKING OF PRODUCT :**

- Trade name.
- Date of manufacture and serial number.
- Equipment type number or model identification under which it was type-tested.

**7. OTHERS :**

7.1 - 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 **Digital Electronics Corporation, Osaka - JAPAN** 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.

7.2 - *This Certificate supersedes the Type Approval Certificate N° 19703/A0 BV issued on 05/10/2007 by the Society.*

7.3 - This certificate is linked to Type Approval Certificate N° 19180/A0 BV.

\*\*\* END OF CERTIFICATE \*\*\*