

## Type Approval Certificate

*This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the LR Type Approval System.*

This certificate is issued to:

<b>PRODUCER</b>	Kawai Electronic Innovation System Co. Ltd.
<b>PLACE OF PRODUCTION</b>	1-1-5, Ikuno Nishi, Ikuno-ku, Osaka, Japan
<b>DESCRIPTION</b>	KEI LCD Display Panel
<b>TYPE</b>	KEI-15LCD : 15" LCD Display Panel (AC100V) Desk mount type KEI-17LCD : 17" LCD Display Panel (AC100V) Desk mount type KEI-19LCD : 19" LCD Display Panel (AC100V) Desk mount type KEI-21LCD : 21" LCD Display Panel (AC100V) Desk mount type
<b>APPLICATION</b>	Marine, offshore and industrial applications for use in environmental categories ENV1 and ENV2 as defined in LR's Test Specification No. 1-2002.
<b>DESIGN CODE</b>	Manufacturer's specification No. LRS-1521LCD-502

*"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register Asia of any modification or changes to the equipment in order to obtain a valid certificate."*

*The Design Appraisal Document No. 06/10027 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

<b>Certificate No.</b>	06/10027
<b>Issue Date</b>	29 August 2006
<b>Expiry Date</b>	28 August 2011
<b>Sheet</b>	1 of 1

  
H. Murase  
Yokohama Design Support  
& Plan Approval Department  
Lloyd's Register Asia

*Lloyd's Register Asia, registered office:  
71 Fenchurch Street, London EC3M 4BS*

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# Marine Design Appraisal Document

Lloyd's Register Asia  
Yokohama Design Support  
& Plan Approval Department  
Queen's Tower A, 10th Floor,  
2-3-1, Minatomirai, Nishi-ku,  
Yokohama 220-6010, Japan

Date  
29 August 2006

Quote this reference on all future communications  
YPA/T/HMU/67375 (E06-20)

**THE LR TYPE APPROVAL SYSTEM, 2002.**  
Issued to: **KAWAI ELECTRONIC INNOVATION SYSTEM CO., LTD**  
for: **KEI LCD DISPLAY PANEL**  
**TYPE APPROVAL CERTIFICATE No. 06/10027**

The undernoted documents have been reviewed for compliance with the requirements of the LR Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

**APPROVAL DOCUMENTATION**

Request for Marine Services Form (2502) dated 19 May 2006  
Request for Quotation Form (LR6606) dated 19 May 2006  
Kawai Electronic Innovation System Co. Ltd.'s letter dated 19 May 2006  
Specification No. LRS-1521LCD-502 dated 19 May 2006  
Test Procedure No. LRS-1521LCD-501 dated 19 May 2006  
Design and Performance Standards, Codes and Rules No. LRS-1521LCD-503 dated 19 May 2006

**TEST REPORTS**

Test Report No. LRS-1521LCD-503 dated 10 July 2006

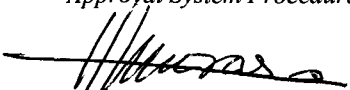
**Supplementary Type Approval Terms and Conditions**

*Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.*

*Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.*

*Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.*

*Lloyd's Register Asia reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the LR Type Approval System Procedure.*

  
H. Murase  
Senior Electrical Engineer Surveyor  
& Group Leader  
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Yokohama Design Support &  
Plan Approval Department  
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FINAL ACCEPTANCE OF ACTUAL ITEM(S) DEPEND(S) ON SATISFACTORY SURVEY AND TESTING

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Part 3

Control Units

Producer/Licence No.	Item Description	Technical Details	Category/Additional Tests	Remarks	Cert. No.
Kawai Electronic Innovation System Co. Ltd. 1-1-5, Ikuno Nishi, Ikuno-ku, Osaka, Japan	KEI LCD Display Panel  KEI-15LCD: 15" LCD Display Panel (AC100V) Desk mount type KEI-17LCD: 17" LCD Display Panel (AC100V) Desk mount type KEI-19LCD: 19" LCD Display Panel (AC100V) Desk mount type KEI-21LCD: 21" LCD Display Panel (AC100V) Desk mount type	Power supply 100V, 50/60Hz  Desk mount type TFT Full Color Liquid Crystal	ENV1 ENV2 (2002)	Expire 28 August 2011  See Specification NO. LRS-1521LCD-502	06/10027

Lloyd's Register Asia  
Yokohama Design Support & Plan Approval Department



AUG. 29. 2006