

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST  
CERTIFICATES FOR ELECTRICAL EQUIPMENT  
(IECEE) CB SCHEME

SYSTEME CEI D'ACCEPTATION MUTUELLE DE  
CERTIFICATS D'ESSAIS DES EQUIPEMENTS  
ELECTRIQUES (IECEE) METHODE OC

**CB TEST CERTIFICATE**  
**CERTIFICAT D'ESSAI OC**

Product  
Produit

Flat Panel Monitor

Name and address of the applicant  
Nom et adresse du demandeur

Advantech Co., Ltd.  
4F, No. 108-3, Ming Chuan Rd.  
Hsin Tien City, Taipei Hsien 231 Taiwan

Name and address of the manufacturer  
Nom et adresse du fabricant

Advantech Co., Ltd.  
4F, No. 108-3, Ming Chuan Rd.  
Hsin Tien City, Taipei Hsien 231 Taiwan

Name and address of the factory  
Nom et adresse de l'usine

(See appendix for factories information)

Rating and principal characteristics  
Valeurs nominales et caractéristiques principales

DC 12V; 4A or 3.33A; Class III

Trade mark (if any)  
Marque de fabrique (si elle existe)

ADVANTECH

Model/type Ref.  
Ref. de type

FPM-3X120YY, FPM-3X120YY-T, FPM-X250YY  
FPM-X250YY-T, VOP-1150YYY, VOP-1150YYY-T  
FPM-3150YYY, FPM-3150YYY-T  
X1 = 1 or 2, X2 = 11 or 32, Y = A-Z or blank

Additional information (if necessary)  
Information complémentaire (si nécessaire)

For differences between the models, refer to the test report  
Re-issue of JPTUV-004839-M1 dated 05.03.2004,  
due to second modification.

A sample of the product was tested and found  
to be in conformity with  
Un échantillon de ce produit a été essayé et a été  
considéré conforme à la

IEC 60950:1999  
inclusive CENELEC Common Modifications  
National differences see test report

As shown in the Test Report Ref. No. which forms part  
of this Certificate  
Comme indiqué dans le Rapport d'essais numéro de  
référence qui constitue une partie de ce Certificat

12002667 003

This CB Test Certificate is issued by the National Certification Body  
Ce Certificat d'essai OC est établi par l'Organisme National de Certification



TÜV Rheinland  
Berlin Brandenburg

TÜV Rheinland Japan Ltd.  
Shin Yokohama Daini Center Bldg.  
3-19-5, Shin Yokohama, Kohoku-ku  
Yokohama 222-0033 Japan  
Phone + 81 45 470-1850  
Fax + 81 45 473-5221  
Mail: info@jpn.tuv.com  
Web: www.tuv.com

Signature:

*W. Herlitschke*  
Dipl.-Ing. W. Herlitschke

Date: 12.05.2004

Name and address of the manufacturer

Advantech Co., Ltd.  
4F, No. 108-3, Ming Chuan Rd.  
Hsin Tien City, Taipei Hsien 231  
Taiwan

Name and address of the factory(ies)

Advantech Co., Ltd.

Fl.5, No.1, Lane 169, Kang-Ning St.  
Xi-Zhi, Taipei Hsien 221  
Taiwan

ADVANTECH CO., LTD.

3rd FL, NO. 10  
LANE 130, MING CHUAN RD  
HSIN-TIEN, TAIPEI HSIEN, 231  
Taiwan

SUPERIOR CO., LTD.

TIENSONG AREA, QINGXING TOWN  
DONGGUAN GUANGDONG  
P.R. China

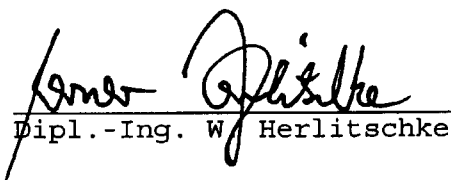
ADVANTECH CO., LTD.

NO. 600, HAN-PU ROAD, YU-SHAN  
KUN-SHAN JIANGSU  
P.R. China

Beijing Yan Hua Xing Ye Electronic Science & Technology Co., Ltd

No.7, 6th Street, Shang Di Zone  
Haidian District, Beijing  
P.R. China

Date: 12.05.2004

  
Dipl.-Ing. W. Herlitschke

Yokohama Head Office

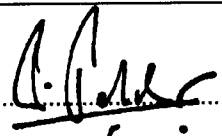
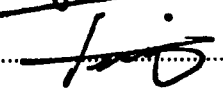
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Yokohama Laboratory

Festo Building 5F  
1-26-10, Hayabuchi, Tsuzuki-ku  
Yokohama 224-0025, Japan

Tel. : (045) 592-1371  
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<b>TEST REPORT FOR AN ADDITIONAL APPROVAL</b> <b>IEC 60950 and/or EN 60950</b> <b>Safety of information technology equipment</b>	
Report reference No .....	<12002667 003>
Tested by (printed name and signature) .....	P. Petschnig 
Approved by (printed name and signature) .....	M. Teng 
Date of issue .....	10, May 2004
Testing Laboratory Name .....	TÜV Rheinland Japan Ltd., Yokohama Laboratory
Address .....	Festo Bldg. 5F, 1-26-10 Hayabuchi, Tsuzuki-ku, Yokohama 224-0025, Japan
Testing location .....	CBTL <input checked="" type="checkbox"/> CCATL <input type="checkbox"/> SMT <input type="checkbox"/> TMP <input type="checkbox"/>
Address .....	Same as above.
Applicant's Name .....	Advantech Co., Ltd.
Address .....	4F, No. 108-3, Ming Chuan Rd., Hsin Tien City, Taipei Hsien 231, Taiwan.
Test specification	
Standard .....	IEC 60950:1999, EN 60950:2000, SABS IEC 60950, UL 60950, CAN/CSA C22.2 No. 60950/UL60950, K60950
Test procedure .....	CB-scheme
Procedure deviation .....	Argentina, Austria, Belgium, Brazil, Canada, China, Czech Republic, Denmark, Finland, France, Germany, Hungary, Ireland, Italy, Japan, Korea, The Netherlands, Norway, Poland, Portugal, Russian Federation, Sweden, Slovenia, Slovakia, Singapore, South Africa, Spain, Switzerland, Turkey, United Kingdom, U.S.A.
Non-standard test method .....	N.A.
Test Report Form No.....	IECEN60950A (CBADD60950_3 Rev B)
TRF originator .....	SGS FIMKO Ltd (modified for additional approvals by TÜV Rheinland)
Master TRF .....	Dated 2003-03
Test item description .....	Flat Panel Monitor
Manufacturer .....	Same as applicant.
Trademark .....	ADVANTECH
Model and/or type reference .....	1. FPM-3X <sub>1</sub> 20YY, FPM-3X <sub>1</sub> 20YY-T, FPM-X <sub>2</sub> 50YY, FPM-X <sub>2</sub> 50YY-T, VOP-1150YYY, VOP-1150YYY-T (X <sub>1</sub> =1 or 2, X <sub>2</sub> =11 or 32, Y=A-Z or blank) 2. FPM-3150YYY, FPM-3150YYY-T (Y=A-Z or blank)
Serial number .....	Pre-production samples without serial number
Rating(s) .....	DC 12V, 4A or 3.33A

**The construction of flat panel monitor model FPM-3X<sub>1</sub> 20YY, FPM-3X<sub>1</sub> 20YY-T, FPM-X<sub>2</sub> 50YY, FPM-X<sub>2</sub> 50YY-T, VOP-1150YYY, VOP-1150YYY-T (X<sub>1</sub>=1 or 2, X<sub>2</sub>=11 or 32, Y=A-Z or blank) was modified as follows:**

1. Add sources of approved power adapter.
2. Cancel original factory.
3. Adding five new factories as bellow:
  - Advantech Co., Ltd.  
5<sup>th</sup> Fl. No. 1, Lane 169 Kang-Ning Street, Xi-Zhi City, Taipei Hsien, Taiwan
  - Advantech Co., Ltd.  
3<sup>rd</sup> Fl. No. 10, Lane 130, Ming-Chuan Rd., Hsien-Tien City, Taipei Hsien, Taiwan
  - Superior Co., Ltd.  
Tiensong Area, Qingxing Town, Dongguan, Guangdong, China
  - Advantech Co., Ltd.  
No. 600, Han-Pu Rd., Yu-Shan, Kun-Shan, Jiang Su, China
  - Beijing Yan Hua Xing Ye Electronic Science & Technology Co., Ltd.  
No. 7, 6<sup>th</sup> Street, Shang Di Zone, Haidian District, Beijing, P.R. China

**For the above described modification(s) the following testing was considered to be necessary:**

Modification	Testing	Comments	Result
1	▪ Touch current measurement	Only touch current considered necessary for Linearity's SPS (p/n LAD6019AB4), it certified according to IEC 60950/A4. All sources of approved power supply w/ satisfied current rating used, there's no additional tests required regarding this. Refer to table 1.5.1 for sources information and appended table for considered test.	<b>P</b>
2 & 3	N/A	No safety impact	<b>P</b>

**Remark:**

This test report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE02.

Factory:

See above.

History of amendments and modifications:

Ref. No. 12002667 001, dated September 05, 2002 (original test report)

Ref. No. 12002667 002, dated March 04, 2004 (modification)

Ref. No. 12002667 003, dated May 10, 2004 (modification)

1.5.1	TABLE: list of critical components					P
object/part No.	manufacturer/ trademark	type/model	technical data	standard	mark(s) of conformity <sup>1</sup> .	
Power Adapter (SPS)	Lien Electronics Inc.	LE-9702B+5012	i/p: 100-240Vac, 50/60Hz, 1.5A, Class I, 40°C o/p: 12Vdc, 4.16A	IEC 60950:1999 (complied with limited power source)	CB (issued by Nemko)	
	Linearity Electronics	LAD6019AB4	i/p: 100-240Vac, 50/60Hz, 1.5A, Class I, 40°C o/p: 12Vdc, 4A	IEC 60950:1991 +A1+ A2+A3+A4 (complied with limited power source)	TÜV, UL, CB (issued by TÜV)	
	Linearity Electronics	LAD6019AB5	i/p: 100-240Vac, 50/60Hz, 1.5A, Class I, 40°C o/p: 12Vdc, 5A	IEC 60950:1991 +A1+ A2+A3+A4 (complied with limited power source)	TÜV, UL, CB (issued by TÜV)	
Note(s):						
1. An asterisk indicates a mark that assures the agreed level of surveillance.						

5.1.6	TABLE: touch current measurement				P
Condition	L→ terminal A (mA)	N → terminal A (mA)	Limit (mA)	Comments	
Linearity's power adapter, model LAD6019AB4					
Power on	0.04	0.04	0.25	To SELV conductive part	
Power on	0.01	0.01	0.25	To enclosure wrapped w/ metal foil	
Linearity's power adapter, model LAD6019AB5					
Power on	0.04	0.04	0.25	To SELV conductive part	
Power on	0.01	0.01	0.25	To enclosure wrapped w/ metal foil	
Note: test conducted on Linearity's power adapter, models LAD6019AB4 and LAD6019AB5					