

# Declaration of Conformity

We declare that the product  
Color LCD Monitor  
LA-1831JMW with Adapter LA-2032-AC  
is in conformity with

## 89/336/EEC-EMC Directive

- EN 61000-3-2 : Electromagnetic compatibility (EMC); Part 3: Limits; Section 2:  
Limits for harmonic current emissions (equipment input current  
 $\leq 16A$  per phase).
- EN 61000-3-3 : Electromagnetic compatibility (EMC); Part 3: Limits; Section 3:  
Limits of voltage fluctuations and flicker in low-voltage supply systems  
for equipment with rated current  $\leq 16A$  per phase.
- EN 50082-1 : Electromagnetic compatibility (EMC); Generic immunity standard Part 1:  
Residential, commercial and light industry
- EN 55022 : Limits and methods of measurement of radio disturbance characteristics of  
information technology equipment

## 73/23/EEC-LVD Directive

- EN 60950 : Safety for information technology equipment including electrical business  
equipment.

EC conformity marking :



Importer :

NEC Europe Ltd.  
Ismaning Office, Steinheilstraße 4-6  
D-85737 Ismaning, Germany

Signature:

Date: July 22, 1998

Name: Shigenori Tsuruhara

EN61000-3, EN50082-1 and EN55022 were tested by pkm electronic GmbH.

|               |                            |                         |
|---------------|----------------------------|-------------------------|
| - EN61000-3-2 | Date: <u>July 21, 1998</u> | Ref. No.: <u>981264</u> |
| - EN61000-3-3 | Date: <u>July 21, 1998</u> | Ref. No.: <u>981264</u> |
| - EN50082-1   | Date: <u>July 21, 1998</u> | Ref. No.: <u>981264</u> |
| - EN55022     | Date: <u>July 21, 1998</u> | Ref. No.: <u>981264</u> |

EN60950 is certified by TÜV GS certification of TÜV Rheinland.

|                    |                           |                                                                     |
|--------------------|---------------------------|---------------------------------------------------------------------|
| - EN60950(Monitor) | Date: <u>May 15, 1998</u> | Certificate No. <u>S 9850473</u><br>Report No.: <u>E9860519E01</u>  |
| - EN60950(Adapter) | Date: <u>Nov.14, 1997</u> | Certificate No.: <u>S 9751080</u><br>Report No.: <u>E9761604E01</u> |

# Zertifikat Certificate



Zertifikat Nr. Certificate No.  
S 9850473

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01

| Ihr Zeichen Client Reference | Unser Zeichen Our Reference | Ausstellungsdatum Date of Issue (day/mo/yr) |
|------------------------------|-----------------------------|---------------------------------------------|
| S.K.                         | 00141-TME/eo- E9860519E01   | 15.05.98                                    |

**Genehmigungsinhaber License Holder**  
NEC Home Electronics, Ltd.  
Shonan Technical Center  
686-1 Nishioi, Oi-machi  
Ashigarakami-gun, Kanagawa 258-8533  
Japan

**Fertigungsstätte Manufacturing Plant**  
NEC Nagano, Ltd.  
  
8060 Rokudobara, Misuzu  
Ina-shi, Nagano 396-0111  
Japan

**Prüfzeichen Test Mark**



**Geprüft nach Tested acc. to**

EN 60950:1992+A1+A2+A3+A4  
ZH 1/618/10.80  
GS-VW-SG7/01.97

**Zertifiziertes Produkt (Geräteidentifikation)**  
**Certified Product (Product Identification)**

**Lizenzentgelte - Einheit**  
**License Fee - Unit**

BILDSCHIRM (18.1 Inches Color LCD Monitor)

Bezeichnungen : LA-1831JMW  
(Type Designations) LA-1831JMW-P

8  
1

Nennspannung : DC 24V  
(Rated Voltage) -

Nennstrom : 2,4A  
(Rated Current)

Schutzklasse : III  
(Protection Class)

Vermerk:Nur zur Verwendung mit NEC Netzgerät LA-2032-AC  
(Remark:Only to be used with NEC AC-Adapter LA-2032-AC)

ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.  
Produkt und Fertigungsstätte erfüllen Par. 3 Abs. 1 und 4 GSG.  
This certificate is based on our Testing and Certification Regulation.  
Product and production fulfill par. 3 Art. 1 and 4 GSG.



Zertifizierungsstelle

*W. Nölke*

# Zertifikat Certificate



**TÜV  
Rheinland**

Zertifikat Nr. Certificate No.  
S1 9751080

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01

Ihr Zeichen Client Reference  
S.K.

Unser Zeichen Our Reference  
00141-TME/eo- E9761604E01

Ausstellungsdatum Date of Issue  
14.11.97 (day/mo/yr)

**Genehmigungsinhaber License Holder**  
NEC Home Electronics, Ltd.  
Shonan Technical Center  
686-1 Nishioi, Oi-machi  
Ashigarakami-gun, Kanagawa 258  
Japan

**Fertigungsstätte Manufacturing Plant**  
NEC Nagano, Ltd.  
8060 Rokudobara, Misuzu  
Ina-shi, Nagano 396-01  
Japan

**Prüfzeichen Test Mark**



**Geprüft nach Tested acc. to**

EN 60950:1992+A1+A2+A3+A4

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Produkt und Fertigungsstätte erfüllen Par. 3 Abs. 1 und 4 GSG.  
*This certificate is based on our Testing and Certification Regulation. Product and production fulfill par. 3 Art. 1 and 4 GSG.*

**Zertifiziertes Produkt (Geräteidentifikation)**  
**Certified Product (Product Identification)**

**Lizenzentgelte - Einheit**  
**License Fee - Unit**

**NETZGERÄT (AC Adapter)**

nur zur Verwendung mit (only to be used with)  
LCD Monitors LA/AU-2032JMW (NEC Home Electronics)

**Bezeichnung (Type Designation)** : LA-2032-AC

8

**Nennspannung (Rated Voltage)** : AC 100-120/220-240V, 50/60Hz

**Nennstrom (Rated Current)** : 1,0/0,5A

**Ausgangsspannung (Output Voltage)** : DC 24V

**Ausgangsstrom (Output Current)** : 2,7A

**Schutzklasse (Protection Class)** : I

**ANLAGE (Appendix) : 1**



8

Dieses Zertifikat bestätigt die Einhaltung des Anhangs I der Richtlinie 73/23/EWG und kann vom Hersteller im Rahmen seiner Konformitätserklärung nach Anhang III verwendet werden.

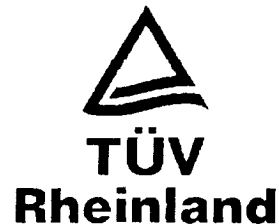
*This certificate is to confirm compliance with Annex I of the directive 73/23/EEC and can be used by the manufacturer in connection with his EC-declaration of conformity acc. to Annex III.*

**Zertifizierungsstelle**

**TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln**  
Zugelassene Stelle nach Par. 9 Abs. 2 GSG, Registered Authority acc. par. 9 Art. 2 GSG

**Dipl.-Ing. W. Nölke**

# Zertifikat Certificate



Zertifikat Nr. Certificate No.  
G 9850475

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01

Ihr Zeichen Client Reference  
S.K.

Unser Zeichen Our Reference

00141-TME/eo- E9860520E05

Ausstellungsdatum Date of Issue  
(day/mo/yr)

03.08.98

Genehmigungsinhaber License Holder

NEC Home Electronics, Ltd.

Shonan Technical Center

686-1 Nishioi, Oi-machi

Ashigarakami-gun, Kanagawa 258-8533  
JAPAN

Fertigungsstätte Manufacturing Plant

NEC Nagano, Ltd.

8060 Rokudobara, Misuzu

Ina-shi, Nagano 396-0111

JAPAN

rufzeichen Test Mark



Geprüft nach Tested acc. to

ISO 9241-3:1992

ISO 9241-8:1997

MPR II: MPR 1990:8 / MPR 1990:10

2 PfG 1041/11.97

Zertifiziertes Produkt (Geräteidentifikation)  
Certified Product (Product Identification)

Lizenzentgelte - Einheit  
License Fee - Unit

BILDSCHIRM (18.1 Inches Color LCD Monitor)

Bezeichnung (Type Designations) : LA-1831JMW 10  
LA-1831JMW-P 2

Flachbildschirm (LCD Module) : NL128102AC28-01 (NEC)

Geprüft mit (Tested with) : Font Arial 12, 16bpp

Ansteuerung (Input Signal) : 1280x1024

f(horizontal): 64kHz

f(vertical) : 60Hz

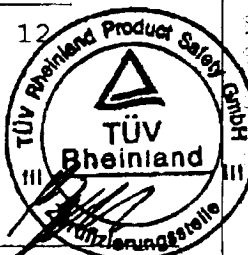
Vermerke: Das Zertifikat für diese Bezeichnung gilt nur  
im Zusammenhang mit GS-Zertifikat S 9850473.  
Strahlungsarm im Sinne der o.a.  
Anforderungen.

(Remarks: The certificate for this type designation is  
only valid together with GS-certificate  
S 9850473. Low radiation according to the  
a.m. requirements.)

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.  
Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.  
This certificate is based on our Testing and Certification Regulation. The product  
fulfills above mentioned requirements, the production is subject to surveillance.

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Zertifizierungsstelle



Dipl.-Ing. M. Borgmann



# CERTIFICATE

*No. 99:9903:160*

**NEC Home Electronics Ltd**  
686-1 Nishioi, Oi-machi  
Ashigarakami-gun  
Kanagawa 258  
JAPAN

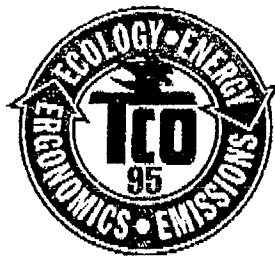
***Product:*** 18", LCD Colour  
***Brand name:*** NEC  
***Type /Model:*** LA-1831JMW  
(LCD1810)

***Comments:***

This document confirms the right to market the above-mentioned product as TCO'99 compliant in accordance with the agreement on environmental labelling dated July 8, 1994.

***Date of issue:*** March 11, 1999

**Martin Söderberg**  
Project Manager, TCO Development



Certificate no: 95:9807:865

## PROOF OF CERTIFICATION

The Swedish Confederation of Professional Employees (TCO) hereby confirms the right of *NEC Home Electronics Ltd* to apply the TCO'95 label on Environmental Approval for the Product Type *LA-183/JMW, 18'' LCD colour* in accordance with the conditions for certification contained in the accompanying Environmental Labelling Agreement dated *8th July, 1994*.

Issued in Stockholm on the *30th July, 1998*

THE SWEDISH CONFEDERATION OF PROFESSIONAL EMPLOYEES (TCO)

Kjell Fransson  
Development Manager

| Postal address               | Office address | Telephone       | Telefax         | Telex       | Telegram  |
|------------------------------|----------------|-----------------|-----------------|-------------|-----------|
| S-114 94 STOCKHOLM<br>Sweden | Linnégatan 14  | +46 8 782 91 00 | +46 8 782 92 07 | 19104 TCO S | TECEOCENT |

TCO Development Unit - TCO'92, TCO'95, TCO'99, 6E, Green Office and Electromagnetic Hypersensitivity

IEC SYSTEM FOR CONFORMITY TESTING TO  
STANDARDS FOR SAFETY OF ELECTRICAL  
EQUIPMENT (IECEE)  
CB SCHEME

SYSTEME CEI D'ESSAIS DE CONFORMITE AUX  
NORMES DE SECURITE DE L'EQUIPMENT  
ELECTRIQUE (IECEE)  
METHODE OC

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

Product  
*Produit*

18.1" Color LCD Monitor

Name and address of the applicant  
*Nom et adresse du demandeur*

NEC Home Electronics, Ltd.  
686-1 Nishioi, Oi-machi  
J 258 Ashigarakami-gun, Kanagawa

Name and address of the manufacturer  
*Nom et adresse du fabricant*

NEC Home Electronics, Ltd.  
686-1 Nishioi, Oi-machi  
J 258 Ashigarakami-gun, Kanagawa

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

see appendix

Rating and principal characteristics  
*Valeurs nominales et caractéristiques principales*

DC 24V; 2.4A; Class III

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

NEC

Model/type Ref.  
*Ref. de type*

LA-1831JMW; LA-1831JMW-P; LA-1831JMW-T  
AU-1831JMW

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

see appendix

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*

**PUBLICATION** **EDITION**  
IEC 60950:1991+A1+A2+A3+A4

as shown in the Test Report Ref. No.  
which form part of this certificate  
*comme indiqué dans le Rapport d'essais numéro  
de référence  
qui constitue une partie de ce certificat*

E 9811096 E 01

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**  
**Product Safety GmbH**

Am Grauen Stein

51105 Köln

Date

14.05.1998

Signature

Dipl.-Ing. Borchert