| | |
|---|---|
| IEC / IECEE CB SCHEME | **Ref. Certif. No.** JPTUV-012934-A1 |

**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<br>Produit | High Speed Color Scanner |
| Name and address of the applicant<br>Nom et adresse du demandeur | Panasonic Communications Co.,Ltd.<br>1471 Murata-machi<br>Tosu-shi, Saga 841-8501, Japan |
| Name and address of the manufacturer<br>Nom et adresse du fabricant | Panasonic Communications Co.,Ltd.<br>1471 Murata-machi<br>Tosu-shi, Saga 841-8501, Japan |
| Name and address of the factory<br>Nom et adresse de l'usine | Panasonic Communications Co.,Ltd.<br>1471 Murata-machi<br>Tosu-shi, Saga 841-8501, Japan |
| Rating and principal characteristics<br>Valeurs nominales et caractéristiques principales | AC 220-240V; 50/60Hz: 0.7A; Class I |
| Trade mark (if any)<br>Marque de fabrique (si elle existe) | Panasonic |
| Model/type Ref.<br>Ref. de type | KV-S7065C, KV-S7065CCN<br>Accessories : refer to the test report |
| Additional information (if necessary)<br>Information complémentaire (si nécessaire) | For model differences, refer to the test report.<br>Re-issue of JPTUV-012934 dated 30.11.2005,<br>due to non-technical change. |
| A sample of the product was tested and found to be in conformity with<br>Un échantillon de ce produit a été essayé et a été considéré conforme à la | IEC 60950-1:2001<br>inclusive CENELEC Common Modifications<br>National differences see test report |
| As shown in the Test Report Ref. No.which forms part of this Certificate<br>Comme indiqué dans le Rapport d'essais numéro de référence qui constitue une partie de ce Certificat | 12700608 002 |

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

**TÜV Rheinland Group**

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Date: 02.05.2006

Signature: Dipl.-Ing. S. Hartter

10/061 CB 4.03

**TÜV Rheinland Japan Ltd.**
3-19-5 Shin-Yokohama
Kohoku-ku, Yokohama 222-0033
Japan

TÜV

# CB TEST REPORT
12700608 002

according to
IEC 60950-1:2001

High Speed Color Scanner
KV-S7065C, KV-S7065CCN
3200-EU, 3200-US, 3600-EU, 3600FDX, 3600-US

Panasonic Communications Co., Ltd.

# TEST REPORT FOR AN ADDITIONAL APPROVAL

## IEC 60950-1, First Edition

## Information technology equipment – Safety – Part 1: General requirements

| | |
|---|---|
| **Report reference No** ..... | 12700608 002 |
| Tested by (printed name and signature) ..... | M. Teng |
| Approved by (printed name and signature) ..... | M. Kera |
| Date of issue ..... | 01.05.2006 |
| **Testing Laboratory Name** ..... | TÜV Rheinland Japan Ltd., Osaka Laboratory |
| Address ..... | Wakasugi Center Bldg., Honkan 16F, 9-1, Higashi Tenma 2-chome, Kita-ku, Osaka-shi, 530-0044, Japan |
| Testing location ..... | CBTL☒ CCATL ☐ SMT ☐ TMP ☐ |
| Address ..... | (as above) |
| **Applicant's Name** ..... | Panasonic Communications Co., Ltd. |
| Address ..... | 1471 Murata-machi, Tosu-shi, Saga 841-8501, Japan |
| **Test specification** | |
| Standard ..... | IEC 60950-1:2001 (1st edition)<br>EN 60950-1:2001 + A11:2004 |
| Test procedure ..... | CB–scheme |
| Procedure deviation ..... | Argentina, Austria, Australia, Belgium, Switzerland, Germany, Denmark, Finland, France, United Kingdom, Greece, Hungary, Israel, India, Italy, Korea, Malaysia, Netherlands, Norway, Poland, Sweden, Singapore, Slovenia and incl. Group differences (EN) |
| Non-standard test method ..... | N.A. |
| **Test Report Form No.** ..... | IECEN60950_1B |
| TRF originator ..... | SGS Fimko Ltd |
| Master TRF ..... | dated 2003-03 |

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| | |
|---|---|
| **Test item description** ..... | High Speed Color Scanner |
| Trademark ..... | 1) Panasonic, 2) & 3) Bowe Bell + Howell |
| Model and/or type reference ..... | 1) KV-S7065C and KV-S7065CCN<br>2) 3200-EU, 3200-US & 3) 3600-EU, 3600FDX, 3600-US |
| Serial number ..... | Production sample without serial number |
| Rating(s) ..... | AC 220-240V, 50 / 60Hz: 1) & 2) 0.7A, 3) 0.6A |

**Particulars: test item vs. test requirements**

| | |
|---|---|
| Equipment mobility ..... : | Stationary |
| Operating condition ..... : | Continuous |
| Mains supply tolerance (%) ..... : | ±10% |
| Tested for IT power systems ..... : | Considered for Norway |
| IT testing, phase-phase voltage (V) : | 230V |
| Class of equipment ..... : | Class I |
| Mass of equipment (kg) ..... : | Approx. 27kg |
| Protection against ingress of water ..... : | Not rated, indoor use only |

**Test case verdicts**

| | |
|---|---|
| Test case does not apply to the test object .: | N(/A) |
| Test item does meet the requirement ..... : | P(ass) |
| Test item does not meet the requirement ...: | F(ail) |

**Testing**

| | |
|---|---|
| Date of receipt of test item ..... : | N.A. |
| Date(s) of performance of test ..... : | N.A. |

**General remarks:**

**"This report is not valid as a CB Test Report unless appended by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02".**

The test result presented in this report relate only to the object(s) tested.
This report shall not be reproduced, except in full, without the written approval of the issuing testing laboratory.
"(see Enclosure #)" refers to additional information appended to the report.
"(see appended table)" refers to a table appended to the report.
Throughout this report a point is used as the decimal separator.

This report is in addition to the original test report no.: 12700608 001.

Only those elements where the equipment has been altered from the original tested sample have been considered. The elements contained within this report are items that have been re-tested, or are included to show that they have been considered.

**Application details:**

Correction of components type designation, components standard and mark(s) of conformity.
For details see **bold** letter on appended table 1.5.1.

**Changes of Manufacturer:**

(none)

**Changes of Production facilities:**

(none)

**Testing:**

No tests were considered necessary.

**Copy of marking plate:**

(unchanged, see original report)

| IEC 60950-1 | | | |
|---|---|---|---|
| Clause | Requirement – Test | Result - Remark | Verdict |

| 1.5.1 | TABLE: list of critical components | | | | P |
|---|---|---|---|---|---|
| object/part No. | manufacturer/ trademark | type/model | technical data | standard | mark(s) of conformity[1]) |
| AC Inlet | Echo Electric Co., Ltd. | AC-P06 | AC 250V, 10A | **IEC/EN 60320** | VDE |
| Power Switch (for KV-S7065C / CCN, 3200-EU / US) | Echo Electric Co., Ltd. | SJ | AC 250V, 10A | **IEC/EN 61058-1/A1** | **SEMKO** |
| Power Switch (for 3600-EU / -US / FDX) | Matsushita Electric Comp. Co., Ltd. | **ESB92D18B** | AC 250V, 4A | IEC/EN 61058-1 | NEMKO VDE SEMKO |
| On SWPS board: | | | | | |
| Connector (CN801) | J.S.T. Mfg. Co., Ltd. | VH Series | AC 250V, 7A | IEC/EN 61984 | TÜV-R |
| Fuse (F801) | Littelfuse Ltd. | 215 | AC250V, T4AH | **IEC/EN 60127-2 BS EN 60127-2** | VDE BSI |
| alternate | Sky Gate Co., Ltd. | SG5013 | AC250V, T4AH | **IEC/EN 60127-2/A1** | SEMKO VDE |
| alternate | SOC Corporation | HT | AC250V, T4AH | IEC/EN 60127-2 BS EN 60127-2 | SEMKO BSI |
| Surge Absorber (ZNR801) | Ohizumi Mfg Co., Ltd. | 470NS | AC 300V | – | UL |
| Alternate | Fuji Electric Co., Ltd. | ENC471D | AC 300V | – | UL |
| X-Capacitor (C801, C802) | Matsushita Electric Ind. Co., Ltd. | ECQUL (X2-type) | AC275V, Max. 0.68uF | **IEC/EN 132400 IEC/EN 60384-14** | VDE |
| alternate | Okaya Electric Ind. Co., Ltd. | PA (X2-type) | AC275V, Max. 0.68uF | IEC/EN 132400 IEC/EN 60384-14 | VDE |
| alternate | Okaya Electric Ind. Co., Ltd. | XE (X2-type) | AC275V, Max. 0.68uF | IEC/EN 132400 IEC/EN 60384-14 | VDE |
| Inductor (L801, L802) | Matsushita Electric Co., Ltd. | ELF18D850C | Winding resist.: Max. 0.097 Ω Insul. class E Bobbin: PBT | – | Tested inside unit |
| Bleeder Resistor (R801) | Various | Carbon type | 0.5W, 680k Ω max. | – | Tested inside unit |
| Y-Capacitor (C803, C804) | Murata MFG. Co., Ltd. | KH (Y2-type) | AC250V, Max 2200pF | IEC/EN 132 400 IEC/EN 60384-14 | VDE |
| alternate | Matsushita Electric Ind. Co., Ltd. | TS (Y2-type) | AC250V, Max 2200pF | **IEC/EN 132400 IEC/EN 60384-14** | VDE |

| IEC 60950-1 | | | |
|---|---|---|---|
| Clause | Requirement – Test | Result - Remark | Verdict |

| 1.5.1 | TABLE: list of critical components | | | | P |
|---|---|---|---|---|---|
| object/part No. | manufacturer/ trademark | type/model | technical data | standard | mark(s) of conformity[1]) |
| Optoisolator (IC803, IC804, IC805) | Toshiba Corp. | TLP421F (D4) | **Isolation Voltage 5000Vrms** | IEC/EN 60950 IEC/EN 60747-5-2 | TUV-R FIMKO |
| Y-Capacitor (C808) | Murata MFG. co., Ltd. | KH (Y2-type) | AC250V, Max 4700pF | IEC/EN 132 400 IEC/EN 60384-14 | VDE |
| alternate | Matsushita Electric Ind. Co., Ltd. | TS (Y2-type) | AC250V, Max 4700pF | **IEC/EN 132400 IEC/EN 60384-14** | VDE |
| Electrolytic Capacitor (C807) | Diverse manufacturers | Various | 450V, max. 220uF | – | Tested inside unit |
| Transformer (T801) | Toho zinc Co., Ltd. | THA0500B | Winding resist.: 3-2: Ø0.23mm 20T 4-3: Ø0.23mm 26T 8-6: Ø0.20mm 8T 8-7: Ø0.20mm 5T 11/12-14/15: Ø0.18mm 8T Insul. class A Bobbin: Phenol | – | Tested inside unit |
| Secondary Fuse (F841) | Littelfuse Ltd. | 215 | AC250V, T6.3AH | **IEC/EN 60127-2 BS EN 60127-2** | BSI VDE |
| alternate | Sky Gate Co., Ltd. | SG5013 | AC250V, T6.3AH | **IEC/EN 60127-2/A1** | SEMKO VDE |
| alternate | SOC Corp. | HT | AC250V, T6.3AH | **IEC/EN 60127-2/A1 BS EN 60127-2** | SEMKO BSI |
| Motors | | | | | |
| Conveyor Motor (Stepping Motor) | Oriental motor Co., Ltd. | PV267-02B-C1 | 4.8Vdc, 2A/phase winding: 2.4Ω ±10%/ phase Insul. class B | – | Tested inside unit |
| Feed Motor (Stepping Motor) | Oriental Motor Co., Ltd. | PK266-02-C131 | 3.6Vdc, 2A/phase winding: 1.8Ω ±10%/ phase Insul. class B | – | Tested inside unit |
| Carriage Motor (Stepping Motor) | Sanyo Denki Co., Ltd | 103H5210-0414 | 4Vdc, 1.2A/phase winding: 3.3Ω ±10%/ phase Insul. class A | – | Tested inside unit |

| IEC 60950-1 | | | |
|---|---|---|---|
| Clause | Requirement – Test | Result - Remark | Verdict |

| 1.5.1 | TABLE: list of critical components | | | | P |
|---|---|---|---|---|---|
| object/part No. | manufacturer/ trademark | type/model | technical data | standard | mark(s) of conformity[1]) |
| Fan Motor | Minebea Co., Ltd | 2410ML-05W-B10 | 24Vdc, 0.08Amax 0.39m$^3$/min CFM Insul. class E | **DIN IEC/EN 60950/A11** | VDE |
| Inverter | | | | | |
| CIS lamp | Harison Toshiba Lighting Corp. | **CSLM4JBB9SX 343TP30A70/Z-1AS** Or CSLKA4JBB9SX 343TP39A70/Z-2AS | (combined with lamp inverter) | – | Tested inside unit |
| Lamp Inverter | Harison Toshiba Lighting Corp | INV-24X04408DMS Or **INV-**24X04482PCC | Input: DC 24V, 1A max. Output: 1150Vrms±20% (2112Vp-0 max) 38±7mArms No-load: 2145Vp-0 max. | – | Tested inside unit |
| Inverter Transformer T1 | Kijima Musen Co., Ltd. | TBFL-274 | Insul. class A | – | Tested inside unit |
| Fuse F1 (on Inverter PCB) | Walter Electronic Co., Ltd. | 2000 | 250V, 1A | **IEC/EN 60127-1/A1 IEC/EN 30127-3 IEC/EN 60127-3** | **SEMKO** |
| Others | | | | | |
| All PCB's | Various | Various | V-1 or better | UL94 | UL |
| Insulation Sheet under SWPS | Various | Various | V-1 or better thickness: 0.5mm | UL94 | UL |
| Sleeving / Tubing on primary wire and DC Fan motor | Various | Various | VW-1 | UL94 | UL |
| All enclosure material | Various | Various | HB or better | UL94 | UL |

[1]) An asterisk indicates a mark that assures the agreed level of surveillance.
Remark: All standards mentioned above are harmonised with the relevant IEC standard or are mentioned to show compliance with the regulations of a specific country.