

CB TEST REPORT

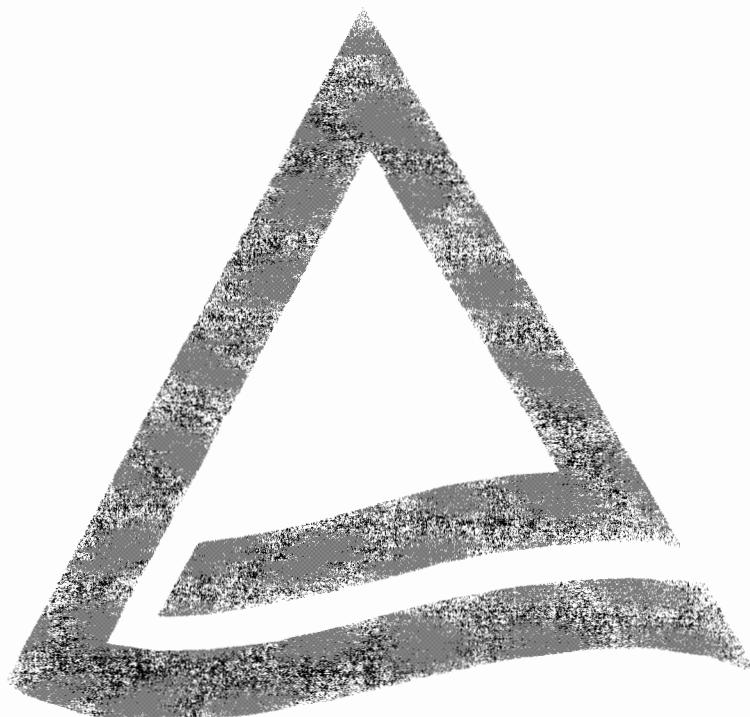
12701293 002

for

DVD MULTI DRIVE

UJ-820B, UJ-830B, UJ-831B, UJ-840, UJ-841, UJ-830Z,
UJ-850, UJ-851, UJ-830Y, UJ-860, UJ-861, UJ-870,
UJ-871, UJ-860Z, UJ-830W, UJ-850Z, UJ870A, UJ870C,
UJ870E, UJ870P, UJ870R, UJ880A, UJ880C, UJ880E,
UJ890, UJDA792, UJ8A0, UJ8A0A, UJ8B0

Panasonic System Networks Co., Ltd.





Test report issued under the responsibility of:



TEST REPORT	
IEC 60950-1: 2005 (2nd Edition) and/or EN 60950-1:2006	
Information technology equipment – Safety –	
Part 1: General requirements	
Report Reference No	12701293 002
Date of issue	2011.02.03
Total number of pages	12
CB/CCA Testing Laboratory	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
Applicant's name	Panasonic System Networks Co., Ltd.
Address	1080 Takano Nagomi-machi Tamana-gun Kumamoto, 865-0193 Japan
Manufacturer's name	(same as Applicant)
Address	(same as Applicant)
Factory's name	1. (same as Applicant)
Address	(same as Applicant)
	2. Panasonic System Networks Philippines Corporation Santa Rosa Factory
	102 Laguna Boulevard Bo. Don Jose, Laguna Technopark Santa Rosa, Laguna 4026, Philippines
	3. Integrated Microelectronics, Inc.
	North Science Avenue, Laguna Techno Park Inc. Binan, Laguna, Philippines.
	4. HONGFUJIN PRECISION ELECTONS (YANTAI) Co., Ltd.
	B Section, Export Processing Zone, No. 50, Beijing Zhong Road, Yantai Economic And Technological Development Area, Shandong, P. R. China
	5. Foxconn Precision Component (Shenzhen) Co., Ltd.
	2 Donghuan Rd. Yousong 10th Ind. District Bao'An, Long Hua Town Shenzhen, Guangdong P.R. China
Test specification:	
Standard	<input checked="" type="checkbox"/> IEC 60950-1:2005 (2nd Edition) and/or <input checked="" type="checkbox"/> EN 60950-1:2006
Test procedure	CB-scheme
Non-standard test method	N/A
Test Report Form No	IECEN60950_1C
Test Report Form(s) Originator	SGS Fimko Ltd
Master TRF	Dated 2007-06

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

Test item description: DVD MULTI DRIVE

Trade Mark: 1) Not provided, 2) HP

Manufacturer: (same as applicant)

Model/Type reference: 1) UJ-820B, UJ-830B, UJ-831B, UJ-840, UJ-841, UJ-830Z, UJ-850, UJ-851, UJ-830Y, UJ-860, UJ-861, UJ-870, UJ-871, UJ-860Z, UJ-830W, UJ-850Z, UJ870A, UJ870C, UJ870E, UJ870P, UJ870R, UJ880A, UJ880C, UJ880E, UJ890, UJDA792, UJ8A0, UJ8A0A, UJ8B0

2) UJ-840, UJ-860, UJ-861
(for details, refer to General Product Information)

Ratings.....: DC 5V (specified 1.6A)

Testing procedure and testing location:

CB/CCA Testing Laboratory: TÜV Rheinland Japan Ltd., Osaka Laboratory

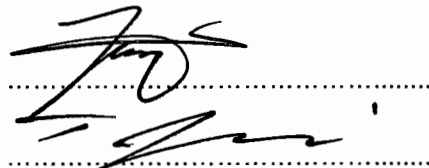
Testing location/ address.....: Wakasugi Center Bldg., Honkan 16F, 9-1, Higashi Tenma 2-chome, Kita-ku, Osaka-shi, 530-0044, Japan

Associated CB Laboratory: (see above)

Testing location/ address.....: (see above)

Tested by (name + signature).....: M. Teng

Approved by (+ signature).....: T. Izumi



Summary of testing:

To confirm the continued compliance with the standard, the following tests were performed:
(see Description of Changes)

Tests performed (name of test and test clause):
(see below)

Testing location:
(see Testing Location above)

Testing		Applicable (Yes/No)	Comments
Clause	Test description		
Annex B	Locked-rotor overload test	Yes	

Additionally evaluated Test specifications.

- EN 60950-1:2006 + A11:2009
- IEC 60825-1: 2007
- EN 60825-1: 2007

Summary of compliance with National Differences:

Group Differences (CENELEC common modifications) and
AT, CH, DE, DK, FI, GB, NO, SE

Explanation of used codes: AT=Austria, AU=Australia, CA=Canada, CH=Switzerland, DE=Germany, DK=Denmark, FI=Finland, FR=France, GB=United Kingdom, IT=Italy, KR=Korea, NL=The Netherlands, NO=Norway, PL=Poland, SE=Sweden, SI=Slovenia, US=United States of America.

For National Differences see original test report.

Copy of marking plate:

MANUFACTURED : JANUARY 2011
SERIAL NO. 1ATYA001001 ADPSN-A



Model No. UJ8B0

POWER SUPPLY : DC 5 V
COMPLIES WITH FDA RADIATION
PERFORMANCE STANDARDS, 21 CFR SUBCHAPTER J. 130F YA
Panasonic System Networks Co., Ltd.
1-52, 4-Chome Minamishinjoh Higashi-Ku Fukuoka, Japan



<p>CAUTION CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO THE BEAM.</p> <p>ATTENTION CLASSE 3B RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE.</p> <p>VORSICHT KLASSE 3B SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET.</p> <p>ADVARSEL KLASSE 3B SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.</p> <p>AVVARSEL KLASSE 3B SYNLIG OG USYNLIG LASERSTRÅLING NÄR DEKSEL ÅPNES. UNNGÅ EXPOSERING FÖR STRÅLEN.</p> <p>VARO KLASSE 3B SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STRÅLEN ÄR FARLIG.</p> <p>注意 打开时有可能有可见及不可见激光辐射。避免光束照射。</p>	<p>DO NOT OPEN THE DRIVE NO USER ADJUSTMENT OR SERVICEABLE PARTS INSIDE. DO NOT PUSH COVER.</p> <p>CLASS 1 LASER PRODUCT</p> <p>LASER KLASSE 1</p> <p>1类激光产品</p>
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Laser caution label on rating label:

<p>CAUTION CLASS 3B VISIBLE AND INVISIBLE LASER RADIATION WHEN OPEN. AVOID EXPOSURE TO THE BEAM.</p> <p>ATTENTION CLASSE 3B RAYONNEMENT LASER VISIBLE ET INVISIBLE EN CAS D'OUVERTURE.</p> <p>VORSICHT KLASSE 3B SICHTBARE UND UNSICHTBARE LASERSTRAHLUNG, WENN ABDECKUNG GEÖFFNET.</p> <p>ADVARSEL KLASSE 3B SYNLIG OG USYNLIG LASERSTRÅLING VED ÅBNING. UNDGÅ UDSÆTTELSE FOR STRÅLING.</p> <p>AVVARSEL KLASSE 3B SYNLIG OG USYNLIG LASERSTRÅLING NÄR DEKSEL ÅPNES. UNNGÅ EXPOSERING FÖR STRÅLEN.</p> <p>VARO KLASSE 3B SYNLIG OCH OSYNLIG LASERSTRÅLNING NÄR DENNA DEL ÄR ÖPPNAD. STRÅLEN ÄR FARLIG.</p> <p>注意 打开时有可能有可见及不可见激光辐射。避免光束照射。</p>	<p>DO NOT OPEN THE DRIVE NO USER ADJUSTMENT OR SERVICEABLE PARTS INSIDE. DO NOT PUSH COVER.</p> <p>CLASS 1 LASER PRODUCT</p> <p>LASER KLASSE 1</p> <p>1类激光产品</p>
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Test item particulars:	
Equipment mobility	<input type="checkbox"/> movable <input type="checkbox"/> hand-held <input type="checkbox"/> transportable <input type="checkbox"/> stationary <input checked="" type="checkbox"/> for building-in <input type="checkbox"/> direct plug-in
Connection to the mains.....:	<input type="checkbox"/> pluggable equipment <input type="checkbox"/> type A <input type="checkbox"/> type B <input type="checkbox"/> permanent connection <input type="checkbox"/> detachable power supply cord <input type="checkbox"/> non-detachable power supply cord <input checked="" type="checkbox"/> not directly connected to the mains
Operating condition	<input checked="" type="checkbox"/> continuous <input type="checkbox"/> rated operating / resting time:
Access location.....:	<input checked="" type="checkbox"/> operator accessible <input type="checkbox"/> restricted access location
Over voltage category (OVC).....:	<input type="checkbox"/> OVC I <input type="checkbox"/> OVC II <input type="checkbox"/> OVC III <input type="checkbox"/> OVC IV <input checked="" type="checkbox"/> other: Class III equipment
Mains supply tolerance (%) or absolute mains supply values	DC supply
Tested for IT power systems.....:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
IT testing, phase-phase voltage (V)	—
Class of equipment.....:	<input type="checkbox"/> Class I <input type="checkbox"/> Class II <input checked="" type="checkbox"/> Class III <input type="checkbox"/> Not classified
Considered current rating (A).....:	Class III equipment
Pollution degree (PD).....:	<input type="checkbox"/> PD 1 <input type="checkbox"/> PD 2 <input type="checkbox"/> PD 3 <input checked="" type="checkbox"/> other: Class III equipment
IP protection class	Not rated, indoor use only
Altitude during operation (m).....:	Up to 2000
Altitude of test laboratory (m)	< 1000
Mass of equipment (kg).....:	< 1.0
Possible test case verdicts:	
- test case does not apply to the test object.....:	N/A
- test object does meet the requirement.....:	P (Pass)
- test object does not meet the requirement.....:	F (Fail)
Testing	
Date of receipt of test item.....:	2011.01.26
Date(s) of performance of tests.....:	2011.02.04
General remarks:	
The test results presented in this report relate only to the object 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.	
Note: This TRF includes EN Group Differences together with National Differences and Special National Conditions, if any. All Differences are located in the Appendix to the main body of this TRF.	
Throughout this report a point is used as the decimal separator.	

Changes of Manufacturer:

(not changed)

Changes of Factory(ies):

Additional Factory:

1. Panasonic System Networks Philippines Corp. Santa Rosa Factory
 5. Foxconn Precision Component (Shenzhen) Co., Ltd.
- See Factory's name and address on the first page.

Withdrawn Factory:

- Panasonic System Networks Philippines Corporation
Carmelray Industrial Park II Calamba, Laguna, Philippines.
- SHIMADU TECH Co., Ltd.
342-1 Toyofuku, Matsubase-machi, Uki-shi, Kumamoto 869-0524 Japan
- Nakagawa Sangyo Limited Company Nishigoshi Factory
489 Miyoshi, Koshi-shi, Kumamoto 861-1104 Japan
- Panasonic System Networks (Dalian) Co., Ltd.
No. 46 Dalian Economical & Technological Development Area Dalian Liaoning China
- Panasonic System Networks Vietnam Co., Ltd.
Lot J1/2 Thang Long Industrial Park Dong Anh district, Hanoi Vietnam

History of amendments and modifications:

Ref. No. 12701293 001, dated 2010.06.02 (original test report)

General product information:
Description of change(s):

1. Additional model: **UJ8B0**
The model is essentially the same construction to previously certified models as mentioned on table below except for the assembly structure of pick-up unit changed. And changes of assembly structure of pick-up unit dose not make any influences to pervious measured data.
For new type designation of pick-up unit, see **bold letters** on appended table 1.5.1.
2. Additional two source of alternative Spindle motor:
 - type 24C075G04x of Nidec Corp.
 - type LMA-28DS4 of Sanyo Seimitsu.
 For technical data, see **bold letters** on appended table 1.5.1.
3. Addition / Withdrawn Factory; for the details, see "Changes of Factory(ies)" above.

For the above described change(s) the following was considered to be necessary:

Change	Testing		Comments
	Clause	Test description	
1, 2	1.5.1	Comply with IEC 60950 or relevant component standard	(see bold letter on appended table 1.5.1)
	Annex B	Motor tests under abnormal condition	(see appended table 5.3)

No other test considered necessary.

2) Differences between models:

Models:	UJ-810B	UJ-820B	UJ-830B	UJ-840 UJ-841	UJ-850 UJ-851 UJ-830Y UJ-860 UJ-861	UJ-860 UJ-861	UJ-870 UJ-871 UJ870A* UJ870C* UJ870E* UJ870P UJ870R	UJ-860Z	UJ-830W / UJ-850Z	UJ880A	UJ880C	UJ880E	UJ890	UJDA792	UJ8A0, UJ8A0A	UJ8A0
Items:																
CD-R:	16X	16X	24X	24X	24X	24X	24X	24X	24X/24X	24X	24X	24X	24X	24X	24X	24X
CD-RW:	10X	8X	10X	10X	16	16X	24X	24X	16X/16X	24X	24X	24X	24X	24X	24X	24X
DVD-RAM:	2X	2X	3X	5X	5X	5X	5X	5X	5X/5X	5X	5X	5X	5X	5X	5X	5X
DVD-R:	2X	4X	8X	8X	8X	8X	8X	8X	8X/8X	8X	8X	8X	8X	-	8X	8X
DVD-R DL:	-	-	-	-	4X	6X	6X	6X	-/4X	6X	6X	6X	6X	-	6X	6X
DVD-RW	1X	2X	4X	4X	6X	6X	6X	6X	4X/6X	6X	6X	6X	6X	-	6X	6X
+R:	-	2.4X	8X	8X	8X	8X	8X	8X	8X/8X	8X	8X	8X	8X	-	8X	8X
+R DL:	-	-	-	-	4X	6X	6X	6X	-/4X	6X	6X	6X	6X	-	6X	6X
+RW:	-	2.4X	4X	4X	8X	8X	8X	8X	3.3X/8X	8X	8X	8X	8X	-	8X	8X
Read:	24X	24X	24X	24X	24X	24X	24X	24X	24X/24X	24X	24X	24X	24X	24X	24X	24X
Type of interface connector	- Parallel ATAPI interface for all models except for models listed below. - Series ATAPI interface for models UJ870A / UJ870C / UJ870E / UJ880A / UJ880C / UJ880E / UJ890 / UJDA792 / UJ8A0 / UJ8A0A															
Drawing function	- Function not provided for models except for models UJ870C / UJ870E / UJ880C / UJ880E / UJDA792 / UJ8A0 / UJ8A0A - Function Lightscribe provided for models UJ870C / UJ880C - Function LabelFlash provided for models UJ870E / UJ880E - Function Lightscribe & LabelFlash are provided in option for model UJ890															

IEC/EN 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⁾	
Main enclosure (bottom, top)	various	Various	Metal thickness: 0.8mm (top) 0.5mm (bottom)	–	–	
Front Bezel (Optional)	Various	Various	V-2 min.	UL94	UL	
Eject Button (Optional)	Various	Various	V-2 min.	UL94	UL	
Drawer	Various	Various	HB min.	UL94	UL	
Pick Up Unit (PUM)	PSN	JMA8xxx (x = 0-9, A-Z or blank)	–	–	Tested inside unit	
alternative	SANYO Electric	SF-DS25P* (* is any character)	–	–	Tested inside unit	
alternative	PSN	JMA870x (x = 0-9, A-Z or blank)	–	–	Tested inside unit	
alternative	SANYO Electric	SF-DS28xx (x = 0-9, A-Z or blank)	–	–	Tested inside unit	
alternative	Sanyo	SF-DS29xx (x = 0-9, A-Z or blank)	–	–	Tested inside unit	
alternative	Sanyo	SF-DS29Px (x = 0-9, A-Z or blank)	–	–	Tested inside unit	
alternative	Sanyo	SF-DS2XP	–	–	Tested inside unit	
Spindle Motor	Nidec	24C075302x (x = 0-9, A-Z or blank)	DC 5V, 750mA winding resist.: 1.0Ω Insulation class B	–	Tested inside unit	
alternative	Matsushita Electric Industrial Co., Ltd.	BKL2ExxEA (x = 0-9, A-Z or blank)	DC 5V, 750mA winding resist.: 1.05Ω Insulation class E	–	Tested inside unit	
alternative	Nidec	24C075A06x (x = 0-9, A-Z or blank)	DC 5V, 750mA winding resist.: 1.0Ω Insulation class B	–	Tested inside unit	
alternative	Nidec	24C075F0xx (x = 0-9, A-Z or blank)	DC 5V, 750mA winding resist.: 1.0Ω Insulation class B	–	Tested inside unit	
alternative	Nidec	24C075B0xx (x = 0-9, A-Z or blank)	DC 5V, 750mA winding resist.: 1.24Ω Insulation class B	–	Tested inside unit	

IEC/EN 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⁾	
alternative	JVC	EP16Hxxx (x = 0-9, A-Z or blank)	DC 5V, 750mA winding resist.: 1.18Ω Insulation class E	–	Tested inside unit	
alternative	PSN	JSA850xx (x = 0-9, A-Z or blank)	DC 5V, 750mA winding resist.: 1.23Ω Insulation class E	–	Tested inside unit	
alternative	Nidec	25C075C07xx (x = 0-9, A-Z or blank)	DC 5V, 750mA winding resist.: 1.0Ω Insulation class B	–	Tested inside unit	
alternative	Nidec	24C075F08x (x = 0-9, A-Z or blank)	DC 5V, 750mA winding resist.: 1.1Ω Insulation class B	–	Tested inside unit	
alternative	Sanyo Seimitsu	LPA-28DS3	DC 5V, 750mA winding resist.: 1.16Ω Insulation class E	–	Tested inside unit	
alternative (DC Brushless motor)	Nidec	24C075E0xx (x = 0-9, A-Z or blank)	DC 5V, 750mA winding resist.: 1.08Ω Insulation class B	–	Tested inside unit	
alternative (DC Brushless motor)	Matsushita Electric Ind. Co., Ltd.	FKZMTA00001x (x = 0-9, A-Z or blank)	DC 5V, 750mA winding resist.: 1.07Ω Insulation class E	–	Tested inside unit	
alternative	Sanyo Seimitsu	LMA-28DS	DC 5V, 750mA winding resist.: 0.589Ω Insulation class E	–	Tested inside unit	
alternative	Sanyo Seimitsu	LMA-28DS2	DC 5V, 750mA winding resist.: 0.589Ω Insulation class E	–	Tested inside unit	
alternative	Nidec	24C075G04x (x = 0-9, A-Z or blank)	DC 5V, 750mA winding resist.: 1.10Ω Insulation class E	–	Tested inside unit	
alternative	Sanyo Seimitsu	SF-DS2XP	DC 5V, 750mA winding resist.: 1.16Ω Insulation class E	–	Tested inside unit	
Feed Motor	Nihon Mini Motor	AT-M08-057x (x = 0-9, A-Z or blank)	DC 3V, 130mA winding resist.: 10Ω Insulation class E	–	Tested inside unit	
alternative	Sankyo Seiki	MSAW016Bxx (x = 0-9, A-Z or blank)	DC 4V, 350mA winding resist.: 13Ω Insulation class E	–	Tested inside unit	
alternative	Matsushita Electric Industrial Co., Ltd.	PNN13RE08WF	DC 3V, 130mA winding resist.: 10Ω Insulation class E	–	Tested inside unit	
alternative	Moatech	SPS-08RG-xxxxxx (x = 0-9, A-Z or blank)	DC 4V, 350mA winding resist.: 13Ω Insulation class E	–	Tested inside unit	

IEC/EN 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⁾	
Eject Solenoid	TDK	MA-307-xx (x = 0-9, A-Z or blank)	DC 6.5V (max.) Winding resist.: 30Ω ± 10% Insulation class E	—	Tested inside unit	
alternative	Shinmei Denki	DL0916S2-030- xxx (x = 0-9, A-Z or blank)	DC 5.5V (max.) Winding resist.: 30Ω ± 10% Insulation class E	—	Tested inside unit	
alternative	Mitsumi Electric Co., Ltd.	R-51 60xx (x = 0-9, A-Z or blank)	DC 3.5-6.5V (max.) Winding resist.: 30Ω ± 10% Insulation class E	—	Tested inside unit	
alternative	Shinmei Denki	DL0916S2-020- xxx (x = 0-9, A-Z or blank)	DC 4.5-5.5V (max.) Winding resist.: 20Ω ± 10% Insulation class E	—	—	
DVD Laser Diode (for model UJ-820B)	Matsushita Electronics Corp.	HUH6275xxxxx (x = 0-9, A-Z or blank)	Vop = 2.8V (max.) Laser output power: 125mW (max.) λ = 662nm	—	Tested inside unit	
alternative (for model UJ-830B, UJ- 831B, UJ-840 and UJ-841)	Matsushita Electric Industrial Co., Ltd.	HUH6277xxxxx (x = 0-9, A-Z or blank)	Vop = 3.0V (max.) Laser output power: 158mW, λ = 662nm (653-665nm)	—	Tested inside unit	
CD Laser Diode (for model UJ-820B)	Matsushita Electronics Corp.	HUH7290xxxxx (x = 0-9, A-Z or blank)	Vop = 2.5V (max.) Laser output power: 210mW (max.) λ = 785nm	—	Tested inside unit	
alternative (for model UJ-830B, UJ- 831B)	Matsushita Electric Industrial Co., Ltd.	HUH7297xxxxx (x = 0-9, A-Z or blank)	Vop = 2.8V (max.) Laser output power: 210mW, λ = 785nm (779-791nm)	—	Tested inside unit	
alternative (for model UJ-840, UJ- 841)	Matsushita Electric Industrial Co., Ltd.	HUH7299xxxxx (x = 0-9, A-Z or blank)	Vop = 1.9V Laser output power: 210mW, λ = 785nm (779-791nm)	—	Tested inside unit	

IEC/EN 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⁾
DVD/CD Laser Diode (for model UJ-850, UJ-851)	Matsushita Electric Industrial Co., Ltd.	HUHT231xxxx (x = 0-9, A-Z or blank)	Vop = 2.4V Laser output power: DVD: 90mW (CW) 215mW (pulse) $\lambda = 662\text{nm}$ (658-665nm) CD: 108mW (CW) 297mW (pulse) $\lambda = 784\text{nm}$ (779-789nm)	–	Tested inside unit
DVD/CD Laser Diode (for model UJ-860, UJ-861)	Matsushita	LNCT16PF	Vop = 1.5V Laser output power: DVD: 90mW (CW), 300mW (pulse) $\lambda = 661\text{nm}$ CD: 140mW (CW), 330mW (pulse) $\lambda = 785\text{nm}$	–	Tested inside unit
DVD/CD Laser Diode (for model UJ-870, UJ-871, UJ-860Z, UJ-830W, UJ-850Z, UJ870A, UJ870C, UJ870E, UJ870P, UJ870R)	Mitsubishi Electric Co., Ltd.	ML229F4-xx (x = 0-9, A-Z or blank)	Vop = 2.5V Laser output power: DVD: 130mW (CW), 300mW (pulse) $\lambda = 660\text{nm}$ CD: 200mW (CW), 350mW (pulse) $\lambda = 784\text{nm}$	–	Tested inside unit
DVD/CD Laser Diode (for model UJ8A0, UJ8A0A, UJ8B0)	Panasonic	LNCT16PF	Vop = 1.5V Laser output power: DVD: 90mW (CW), 300mW (pulse) $\lambda = 661\text{nm}$ CD: 175mW (CW), 330mW (pulse) $\lambda = 785\text{nm}$	–	Tested inside unit

Supplementary information:

- ¹⁾ An asterisk indicates a mark that assures the agreed level of surveillance.
- Suffix "x" in the type designation above can be any character or blank are used with no differences in specification and electrical characteristics not influence to safety.

IEC/EN 60950-1

Clause	Requirement + Test	Result - Remark	Verdict
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5.3	TABLE: Fault condition tests					P
	Ambient temperature (°C)					—
	Power source for EUT: Manufacturer, model/type, output rating					—
Component No.	Fault	Supply voltage (V)	Test time	Fuse no.	Fuse current (A)	Observation
Spindle motor	L	DC 5	7hrs	—	—	EUT shutdown immediately by internal electronic protection circuit. No hazards. (tested inside EUT with type 24C075G040)
Spindle motor	L	DC 5	7hrs	—	—	EUT shutdown immediately by internal electronic protection circuit. No hazards. (tested inside EUT with type SF-DS2XP)
Supplementary information:						
During the tests no fire or other hazard occurred.						
L = loaded						

IEC/EN 60950-1			
Clause	Requirement + Test	Result - Remark	Verdict

List of test equipment used:

Clause	Measurement / testing	Testing / measuring equipment / material used	Range used	Calibration date
–	–	–	–	–

Supplementary information:

No listing of test equipment used necessary for chosen test procedure.