



America

CERTIFICATE

No. U8 12 10 40676 091

Holder of Certificate: SAMSUNG TECHWIN CO., LTD.

42, Sungju-dong, Changwon-si,
Gyeongsangnam-do 641-716
REPUBLIC OF KOREA

**Production
Facility(ies):**

40676, 70297

Certification Mark:



C US

Product:

Video recorder
(Digital Video Recorder)

Model(s):

SRD-1673DN, SRD-1673DP,
SRD-1653DN, SRD-1653DP,
SRD-873DN, SRD-873DP
("SAMSUNG")

Parameters:

Rated voltage:	100-240 V a.c.
Rated frequency:	50/60 Hz
Rated current:	4-1.5 A
Protection class:	I

**Tested
according to:**

UL 60950-1/R:2011-12
CAN/CSA-C22.2 NO. 60950-1/A1:2011

The product was voluntarily tested according to the relevant safety requirements noted above. It can be marked with the certification mark above. The mark must not be altered in anyway. This product certification system operated by TÜV SÜD America Inc. most closely resembles system 3 as defined in ISO/IEC Guide 67. Certification is based on the TÜV SÜD "Testing and Certification Regulations". TÜV SÜD America Inc. is an OSHA recognized NRTL and a Standards Council of Canada accredited certification body.

Test report no.:

077-135542-000

Date, 2012-10-26

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Aufbauübersicht für Elektrogeräte und Maschinen

Data form for electrical equipment and machinery

(for NRTL, see working instruction TCSNRTL-CDF001)



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Auftraggeber / Applicant: SAMSUNG TECHWIN CO., LTD. (40676)
42, Sungju-dong, Changwon-si, Gyeongsangnam-do, 641-716, Republic of Korea

Fertigungsstätte / Production facility:

1. SAMSUNG TECHWIN CO., LTD. (40676)
42, Sungju-dong, Changwon-si, Gyeongsangnam-do 641-716, Republic of Korea
2. TIANJIN SAMSUNG TECHWIN OPTO-ELECTRONIC CO., LTD. (70297)
11 WEILIU RD, MICRO-ELECTRONIC INDUSTRIAL PARK, TEDA, TIANJIN 300385, People's Republic of China

Geräteart / Type of equipment: Digital Video Recorder

Typenbezeichnung / Type/model: SRD-1673DN, SRD-1673DP, SRD-1653DN, SRD-1653DP, SRD-873DN, SRD-873DP

Warenzeichen / Trade mark



Seriennr. / Serial no.: N/A

Nennspannung/Nennaufnahme/Nennstrom/Frequenz/Rated voltage/frequency/Rated input power/current:
AC 100-240 V~, 50/60 Hz, 4-1.5 A

Anschlußdaten-Hydraulik / Connection to hydraulic power: N/A

Anschlußdaten-Pneumatik / Connection to pneumatic power: N/A

Anschlußdaten-Wasser / Connection to water installation: N/A

Gewicht / weight: 6.54 kg

Lärmemission / noise emission (dB A):

Ausführung / Construction:	Ortsfest	Stationary	☒
	Ortsveränderlich	Portable	☐
	Handgerät	Hand-held	☐
	Einbaugerät	Open-frame	☐

Schutzklasse / Protection class:	Schutzklasse I:	Schutzleiteranschluß	PE-connection	☒
	Schutzklasse II:	Schutzisoliert	Double insulation	☐
	Schutzklasse III:	Schutzkleinspannung/ interne Stromversorgung	SELV/internally powered	☐

Schutzart / Degree of protection against liquids:	IPX0	☒
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Anschlußart / Supply connection:	Feste Anschlußleitung	Non detachable cord	☐
	Fester Anschluß	Permanent connection	☐
	Gerätesteckvorrichtung	Appliance inlet	☒

Netzbetriebsart / Rated operation:	Dauerbetrieb	Continuous operation	☒
	Aussetzbetrieb	Intermittent operation	☐
	Kurzzeitbetrieb	Short time operation	☐

Material: a) Gehäuse / Enclosure See appended table(Safety relevant components)
b) Leiterplatten / p.c.b See appended table(Safety relevant components)

Prüfbericht Nr. / Test Report No.: 077-135542-000 Projektleiter / Project manager: Kevin Park	Ort / place: SAMSUNG TECHWIN CO., LTD. (40676) 42, Sungju-dong, Changwon-si, Gyeongsangnam-do, 641-716, Republic of Korea Datum / date: 2012-10-22 Stempel und Unterschrift / Seal and signature Jeisoon Kang
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Zusätzliche Angaben für Laser, Klassifizierung nach EN 60825 (bzw. UL für NRTL)

Additional information for Laser equipment, classification according to EN 60825 (UL for NRTL)

Klasse / Class: (Safety relevant components)

Wellenlänge / Wavelength: (Safety relevant components)

Pulsdauer / Pulse duration: (Safety relevant components)

Prüfbericht Nr. / Test Report No.: 077-135542-000

Projektleiter / Project manager:
Kevin Park

A handwritten signature in black ink, appearing to be 'K. Park'.

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641-716, Republic of Korea

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Stempel und Unterschrift / Seal and signature
Jeisoon Kang

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Sicherheitsrelevante Bauteile: (Schalter, Temperaturregler, Heizkörper, Stecker, Fassungen, Leitungen, Kondensatoren, Motoren und sonstige Wicklungen z.B. Transformatoren, Magnetspulen) (Not-Aus Geräte, 2-Handsteuerungen, Verriegelungsschalter, Sicherheits-Lichtschränken, Sicherheitsventile, Programmierbare Steuerungen-SPS, hydraulische Steuerungen, pneumatische Steuerungen)

Safety relevant components: (switch, temperature regulator, heating element, plug, socket, wiring, capacitor, motors and other components with windings e.g. transformers, coils)

(emergency off devices, 2-hand-control-devices, interlock switches, safety light barriers, safety valves, programmable electronic controllers -PLC, hydraulic controllers, pneumatic controllers)

Bauteil / Kind of component	Hersteller / Manufacturer	Angaben über Typ, Stromstärke, Leistung, Transformatorspezifikationsnummer, Isolationsklasse / Information about type, current, power, transformer specification number, insulating class		Prüfzeichen von Test mark from (VDE, BSI, UL etc.)	
Power cord set (Canada, USA)	Longwell	LP-30B SVT LS-13	10 A, 125 V~ 3 x 18 AWG 10 A, 125 V~	ANSI/UL 817 CSA-C22.2 No. 21	UL cUL
Alt.	Various	Various	Type SVT or SJT, 18 AWG, 0.75 mm ² , 125 V, 10 A, Max. 4.5 m long One end with NEMA 5- 15P Other end with appliance coupler.	ANSI/UL 817 CSA-C22.2 No. 21	UL cUL
Switching Power Supply	FSP Group Inc.	FSP250-50GUB	Input: 100-240 V~, 50-60 Hz, 4-1.5 A, Class I DC output: +3.3 V / 17.0 A, +5 V / 18.0 A, +12 V / 17.0 A, -12 V / 0.8 A, +5 Vsb / 2.0 A, +3.3 V and +5 V = Max. 105 W	IEC 60950-1 UL 60950-1 CAN/CSA C22.2 No. 60950-1	NEMKO UL cUL
Hard Disk Drive	Western Digital or equivalent	WD10EURX or equivalent	5 V d.c., 0.70 A 12 V d.c., 0.55 A	IEC 60950-1 ANSI/UL 60950-1 CAN/CSA-C22.2 No. 60950-1	TUV NORD UL cUL
DVD Writer	Toshiba Samsung Storage Technology or equivalent	SH-222 or equivalent	Class 1 Laser Product 5 V d.c. 12 V d.c.	IEC 60950-1 UL 60950-1 CAN/CSA C22.2 No. 60950-1	NEMKO UL cUL

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DC Fan	Nidec	U60T12MHA7-52	12 V d.c., 0.09 A N: 3200 r/min m: 0.04 kg r: 28 mm a): 0.294	EN 60950-1 ANSI/UL 507	TUV SUD UL
Lithium battery (BAT1)	Hitachi Maxell Ltd	CR2032	3.0 V d.c., Max Abnormal Charging Current 10 mA	UL 1642	UL
Protection IC (U17) for Lithium battery	Maxim Integrated Products	DS3232M	V _{BAT} : 3.0 V Active Supply Current: 250 uA Reverse Charging Protection IC	UL 60950-1 CAN/CSA C22.2 No. 60950-1	UL cUL
Power Distribution Switch(U8, U9) for USB ports	Texas Instruments, Inc.	TPS2062	Voltage Range: 2.7- 5.5 V d.c. Maximum Continuous Current: 1 A Protective Current: 5 A	IEC 60950-1 UL Subject 2367	NEMKO (NO59537) UL
Front enclosure	Cheil Industries Inc Chemicals Div	TH-1100(+)	V-0, 80 °C Min. 2.0 mm thickness	IEC 60695-11-10 UL 94	UL
Others enclosure	Various	Various	Metal, Min. 0.7 mm thickness	UL/CSA 60950-1	Tested in equipment
PCB	Various	Various	Min. V-1 or better, Min. 105 °C, 1.6 mm thickness	UL 796	UL

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