

TEST SPECIFICATION

Product:	CD & DVD Player		
Scope:	CD & DVD player	Protocol No.	TYCP-AV001 (US)
		Version	1.0
		Issue Date	Sep 23, 2011
		Prepared by	Jack Yang
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Instructions to Vendors:

Dear Valued Vendor:

Product safety is a top priority at Taymark. We, with the assistance of Intertek, a CPSC-accredited third-party testing partner or lab, have identified the various rules and regulations as well as the necessary test requirements that we need to meet in our partnership to sell products in the United States. This has been assembled into our required Test Protocol. Each product that is supplied to us must comply with this Test Protocol and any required associated test protocol(s) identified within it.

You are required by the US Law to verify the products you provide to Taymark (or any other customer marketing to children in the USA) meet the required safety standards. Likewise, Taymark is required by US Law to assure that we have documentation to confirm that you have verified that your products meet the applicable safety standards. Once you have verified that the product(s) you have supplied to us conforms to the corresponding Test Protocol(s), and the testing was conducted within the past twelve (12) months, we ask that the appropriate representative from your company provide Taymark with the proper General Certificate of Conformity ("GCC") and the corresponding documentation that you used to support the GCC, including, where applicable and required, the CPSC-accredited third-party test data. For an example of an acceptable GCC, please go to <http://www.cpsc.gov/about/cpsia/faq/elecfaq.pdf>.

Key

†: Any element on the attached form with the following symbol ("†") is a Mandatory Requirement to which the product(s) or components of product(s) you supply to Taymark must conform. You must perform the associated test(s) and provide Taymark with the test data to support the fact that the test(s) was (were) conducted and that the product(s) or components of product(s) meets the described requirements. You are responsible for conducting the mandatory testing, and you are responsible for any expenses incurred as a result of conducting the test(s) (including, without limitation, the costs and expenses associated with providing any samples, testing, reporting, and preparing the General Certificate of Conformity).

: The symbol ("") on the attached form indicates that additional charges may apply. Taymark's preferred Accredited Third-Party Testing Facility is Intertek. If you choose to use Intertek to conduct the mandatory testing, please reference Taymark and Taylor Corporation when submitting your requests for testing to Intertek as you may be able to take advantage of Taymark and Taylor Corporation's volume discount. You may contact Intertek for a price quote and any additional information they might need in order to conduct the required testing.

Additional Accredited Third-Party Testing facilities can be found at <http://www.cpsc.gov/cgi-bin/labsearch/>.

Note:

Where there is no applicable US standard, Intertek has chosen the most relevant International Standard to assess the product safety and performance. For undated references, the latest edition of the referenced document (including any amendments) applies.

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Attribute	Test Method/Standard	Requirement / Limit
Supplemental Protocol(s)		
*†CA Prop 65 (mandatory in state California)	Intertek Protocol	Consent Judgment of related court case based on California Proposition 65. See http://oehha.ca.gov/prop65.html
*† Children's Products (Non-toy)	TYCP-16026-US	Shall comply with the applicable requirements. See Children's Products (Non-toy) Protocol posted at http://www.taymarkinc.com
Note: Additional cost, sample size & TAT may be required if testing to 1 or more supplemental protocol is necessary. Please refer to the above referenced supplemental protocol(s) for additional information		
Chemical Analysis		
1. * Lead Content in Paint and Similar Surface Coating	16 CFR 1303 (Scope Widened)	Shall not exceed 90ppm (0.009% by weight) total lead.
Document Check		
2. †One Time Use Products Fair Packaging and Labeling Act OR All Other Products Uniform Packaging and Labeling Regulations	F.P. & L. Act (16 CFR 500) OR NIST Uniform Laws and Regulations Handbook 130	Manufacturer, packer, or distributor's name & address (city, state & zip)
		Product Identification
		Net quantity of contents shall be expressed in terms of weight or mass, measure, numerical count, or combination so as to give accurate information to facilitate consumer comparison (U.S. and metric units).
3. †Country of Origin Marking	19 CFR 134.11	Shall indicate country of origin legibly, permanently, and in comparable size and close proximity to any mention of country other than country in which the article was manufactured or produced. Must be visible at point of purchase.
4. Use Labelling	Visual Check	Use/care instructions that are clear and understandable shall be provided in language appropriate to destination countries
5. Verify Label Claims (if any)	Visual Check	Must comply with all claims
6. †*Toxics in Packaging	Toxics in Packaging Act	Intentional introduction of any amount of lead, mercury, cadmium or hexavalent chromium in any packaging is prohibited. Incidental presence of these metals is limited to 100 ppm total concentration of lead, mercury, cadmium and hexavalent chromium in any packaging. In lieu of testing, supplier may submit a Certificate of Compliance.

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7. †Plastic Bag Warning Statement (if applicable)	Based on Various State Laws: New York, Chicago, Massachusetts, and Rhode Island State and City Laws modified	<p>Plastic bags with a thickness less than one mil (1/1000 inch) having an opening size of five inches in diameter or more must have the following warning or an equivalent warning visible from each side of the bag. If the total length and width is more than 40 inches, this warning or an equivalent warning must repeat at 20 inch intervals and be visible on each side of the bag:</p> <p>Warning: To avoid danger of suffocation, keep this plastic bag away from babies and children. Do not use this bag in cribs, beds, carriages or playpens. This bag is not a toy.</p> <p>Massachusetts, New York, and Rhode Island provide minimum type size for the warning. The following table sets forth type sizes that will satisfy all four state requirements.</p> <p>Total Length and Width of Bag Size of Print</p> <p>60 inches or more at least 24 point 40 to 59 inches at least 18 point 25 to 39 inches at least 14 point Less than 25 inches at least 10 point</p> <p>*Virginia's law is intended for dry cleaning bags only and requires at least 36 point type.</p>
8. Safety Listing Mark	NFPA 70	Shall have valid ETL, UL or CSA listing or equivalent. Verify listing by NRTL product directory with the sample's listing number and model number.
9. †FCC Rules	Document Check	Products shall have valid FCC report if operating frequency > 9 kHz for AC, or operating frequency > 1.705MHz for battery operated product.
10. †FCC marking and instruction	Visual	Products shall have FCC required marking and instruction if operating frequency > 9 kHz for AC, or operating frequency > 1.705MHz for battery operated product.
11. General and Cautionary Markings	UL 60065, Cls. 5	<p>A general, cautionary and warning marking intended to inform the user of a potential risk of fire, electrical shock, or injury to persons shall be provided.</p> <ul style="list-style-type: none"> - Maker's or responsible vendor's name or trade mark - model number - Class II symbol (if applicable) - nature of supply - rated voltage - rated current consumption or rated power consumption - date code - "CAUTION – RISK OF ELECTRIC SHOCK – DO NOT OPEN" - other markings required by the standard

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12. User Manual / Important Safety Instructions / Assembly Instructions	UL 60065, Cls. 5.4	Instructions and warnings shall be provided in the user manual identifying reasonable foreseeable uses or misuses of the product. It shall also include instructions regarding the installation, use, safety and maintenance.
13. Battery Warning Statement	Visual Check	The following statement either in the instructions or marked on the device (required only for devices which use more than one battery in one circuit) - Do not mix old and new batteries - Do not mix alkaline, standard (carbon-zinc), or rechargeable (ni-cad, ni-mh, etc) batteries
14. US DHHS marking	Visual check	Product incorporated laser module shall contain statement "Complies with 21 CFR Chapter 1, Subchapter J" or "Complies with 21 CFR 1040.10 and 1040.11"
15. CEC	CEC-400	The product must meet the relevant requirements and verify listing by CEC appliance database with the sample's brand name and model number.
16. CEC marking	CEC-400, Sect 1607	The product shall be displayed the label for energy performance information. - Manufacturer's name or brand name or trademark - Model number - Date of manufacture, in year and month or smaller increment.
17. Dolby	Visual check	Shall have valid Dolby license
18. UPC code	Actual Use	Using a commercial available bar code reader to read the UPC code printed on the package/artwork. The code readout shall match with the number underneath. Record the reading displayed on the reader.
19. Parts Inventory	Visual Check	Shall meet label claims.
Electrical Safety		
20. Packing	Visual Check	No hazard when removing the packing
21. Workmanship – external	Visual Check	Shall have no sharp points/edges, other than those required for function. Shall have no components missing, malformed, and/or fractured.
22. Workmanship – internal	Visual Check	Solder connections shall be secured Components shall be reliably mounted on PCB or other proper fixing.
23. Mechanical Assembly	Visual Check	All mechanical parts shall be securely fixed and prevented from turning.
24. Internal Wiring	Visual Check	Wireways shall not allow wires to come in contact with sharp points, edges or moving parts.

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25. Power Cord	UL 60065 Clause 16.1 and 16.2	Inspect cord for sufficient cross-sectional area and provided with cord anchorage
26. Power Cord - Cross Section Area of Conductor (mm ²)	Standard Measure	The cross section area of conductor shall comply with Table 20.1 of UL1581 for the AWG claimed.
27. Plug	Visual Check	Plug shall be 3-wire grounding type or 2-wire attachment plug.
28. Accessibility of Live Parts	UL 60065 Clause 9.1.1.2	Inspect for access to live parts after removal of detachable parts
29. Leakage Current Test	UL 60065 Cls. 9.1.1.1	Touch current shall not exceed 0.5 MIU according to UL 101.
30. Strain Relief	UL 60065 Cls 16.5	Shall withstand 40N, 1 second, 100 times pull force.
31. Dielectric Strength Test	UL 60065 Cls 10.3.2	The Product shall withstand, - 4200V _{peak} for 1 minute between live parts of input circuits and live parts of output circuits - 4200V _{peak} for 1 minute between live parts of input circuits and user accessible surface
32. Temperature Test on Accessible Parts	UL 60065 Cls 7.1	When tested with normal operation, maximum temperature rise allowable accessible surface (Mod. = Accessible surfaces only) shall not exceed temperatures specified. Protective devices shall not operate.
33. Continuity of grounding connection	UL 60065 Cls 15.2	All exposed dead metal parts that are exposed to contact during any servicing operation, including maintenance and repair, and that can become energized shall be electrically connected to the grounding terminal and with earth resistance not more than 0.1 Ohm.
34. Impact Test	UL60065 Cls 12.1.4	A sample is to be dropped (free fall) 3 times in succession from a height of 1m onto a hardwood surface. After test, the unit shall pass dielectric voltage withstand test.
35. Handle and knob strength	UL60065 Cls 12.1.6	Control button shall withstand for 1 minute, a force of 15 N in any direction, without exposing parts involving a risk of electric shock or resulting in breakdown of the captivating means. A product handle or support system shall withstand a force of four times the weight of the product.
36. Sharp Edge Test	16 CFR, Part 1500&1501	To determine compliance with the sharpness of an edge, the sharp-edge tester is to be applied to the edge in accordance with the requirements in the Standard for Test for Sharpness of Edges on Equipment, UL 1439. The edge shall be considered unacceptable if the sensing tapes – the two outer layers – are cut through as a result of the application of the tester. And the product shall not present any potential hazard for children (sharp edges, sharp points, small parts as required in 16 CFR 1500&1501 (for US), or Hazardous Products Act (for CAN).
Performance Test		

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37. Functional Check	Actual Use	All the major features shall be matched with the installation and use instructions and claims made on the packaging, with no inaccurate or misleading statements about the unit, or any other user-friendliness problems.
38. Ease of Installation	Actual use	Follow the instruction to assembly and disassembly the unit; and comment the method of the installation. Parts shall not easy to break during normal use.
39. Continuous Operation Test	Actual use	When used with specific product, under maximum loading condition for 4 hours, the following shall not occur: <ul style="list-style-type: none"> - Function failure - Emission of flame - Molten metal or growing or flaming particles through any openings - Creation of any openings in the enclosure that result in accessibility of live parts - Ignition of the enclosure
40. Video Connection to External Equipment	In-house method	The connection shall be operated as intended, e.g. Composite (RCA) Video Output/Input, S-Video Output/Input, Component Video Output/input (Interlaced), Component Video Output/input (Progressive), etc.
41. Audio Connection to External Equipment	In-house method	The connection shall be operated as intended, e.g. Digital coaxial output, Digital optical output, 5.1 Analog Audio Output, Stereo Analog Output/Input.
42. Pattern Test - Cross Hatch	In-house method	To check static convergence and pin-cushion correction. Pattern meet testing purpose
43. Pattern Test - Centre Cross	In-house method	To check centering TV screen and pin-cushion correction. Pattern meet testing purpose
44. Pattern Test - Dots	In-house method	To check static convergence and focussing. Pattern meet testing purpose
45. Pattern Test - Circle	In-house method	To check overall linearity and geometry. Pattern meet testing purpose
46. Pattern Test -Checkerboard	In-house method	To check horizontal/vertical synchronisation, linearity and deflection. Pattern meet testing purpose
47. Total Harmonic Distortion (THD)	For measuring THD at frequency range from 20Hz – 20kHz	1% or less
48. Signal to Noise (S/N) Ratio	For measuring the difference with and without signal on the same channel	50dB or more
49. Channel Separation	For measuring separation in reference to Left and Right channels when Right and Left channels recording level is -∞ respectively	30dB or more

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50. Channel Unbalance	For measuring output voltage difference between 2 channel	3dB or less
51. Frequency Response	For measuring frequency range with 3dB margin from the highest value	Over the range 200Hz – 4kHz
52. Play / F.F. / REW. /SLOW	In-house method	To check the functionality of the items. As specified by manufacturer shown on manual / label
53. Multiple Audio Language	In-house method	To check the functionality of the items. As specified by manufacturer shown on manual / label
54. Multiple Sub-title Language	In-house method	To check the functionality of the items. As specified by manufacturer shown on manual / label
55. Multiple Angle Pictures	In-house method	To check the functionality of the items. As specified by manufacturer shown on manual / label
56. Parental Lock	In-house method	To check the functionality of the items. As specified by manufacturer shown on manual / label
57. Remote Control Usable Distance	In-house method	The remote control shall be able to use for at least 15 feet away from the product.
58. Remote Control Drop Test	In-house method	The remote control shall remain function after 3 drops on a hard wooden surface at a height of 3 feet.
59. *Standby Power	CEC-400 Table U-3	No more than 3W in Video standby passive mode

Remark: Additional tests may be incurred subject to the final samples reviewed by Intertek.