

TEST SPECIFICATION

Product:	MP3 Player		
Scope:	Includes MP3 and MP4 player with radio player	Protocol No.	TYCP-xxxxx-US
		Version	1.0
		Issue Date	Dec 09, 2011
		Prepared by	Intertek HK - TFH
		Page	1 of 9

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.

444883_1

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		Prepared by	Intertek HK - TFH
		Page	2 of 9

Attribute	Test Method / Standard	Requirement / Limit	Result
Supplemental Protocol(s)			
*†CA Prop 65 (mandatory in state California)	Intertek Protocol	Consent Judgment of related court cases based on California Proposition 65. See http://oehha.ca.gov/prop65.html	
*† Children's Products (non-toy)	TYCP-00004-US	Shall review against the Children's Products Supplemental and shall comply the applicable requirements. See Children's Products (Non-toy) Protocol posted at http://www.taymarkinc.com	
*Battery Operated Product (If applicable)	Refer to TYCP-PS001-US	Battery operated product shall be reviewed and tested according to the requirements of TYCP-PS001-US See Battery Operated Product protocol posted at http://www.taymarkinc.com	
*Batteries	Refer to TYCP-PS002 -US	Must all also test to the Batteries protocol if applicable. See Batteries protocol posted at http://www.taymarkinc.com	
*AC Adaptor	Refer to TYCP-PS003-US	Must all also test to the AC Adaptor protocol if applicable. See AC Adaptor protocol posted at http://www.taymarkinc.com	
*† CPSIA Supplemental	TYCP-00001-US	Shall review against the CPSIA Supplemental and shall comply with all applicable requirements. See CPSIA Supplemental Protocol posted at http://www.taymarkinc.com	

*Note: Additional cost, sample size & TAT may be required if testing to one or more supplemental protocols is necessary.
Please refer to the above referenced supplemental protocol(s) for additional information.*

Chemical Analysis

*Lead Content of Paints or Similar Surface Coating	16 CFR 1303 (scope widened)	Shall not contain Lead or Lead compounds in which the Lead content is in excess of 0.009% by weight of the total content (90ppm).	
*†Toxic Elements in Packaging Components	TPCH	Shall comply with TPCH in those states with legislation. Total concentration of Pb, Cd, Hg and hexavalent Cr ≤ 100 ppm.	

Physical Characteristic

444883_1

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		Prepared by	Intertek HK - TFH
		Page	3 of 9

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Overall dimension (in)	ITS-M0059	Length : Claimed / Measured Thickness : Claimed / Measured Width / Dia : Claimed / Measured	
Carrying Case (in)	ITS-M0059	Length : Claimed / Measured Thickness : Claimed / Measured Width / Dia : Claimed / Measured	
Weight – each (oz)	ITS-M0059	Net weight: Measured Total weight (with kits): Measured	
Earphone cord length	ITS-M0059	Claimed / Measured	
Component interconnection cable length (as applicable)	ITS-M0059	Claimed / Measured	
Construction & Workmanship			
Metal Surfaces	Visual Check	All metal surfaces are plated, coated, or equivalent to inhibit corrosion	
Wiring and Current-carrying Parts	Visual Check	All wiring, and other current-carrying parts are enclosed or shield and are not accessible during normal use	
Wire Insulation	Visual Check	Wire insulation is not pinched, cut or otherwise damaged	
Type of Display	Visual Check	Report (i.e. LCD, LED, etc)	
Color	Visual Check	Report actual	
Workmanship – external	Visual Check	Free of nicks, burrs, pits, sharp edges and any other defects which may effect serviceability or appearance of the finished product. Good overall appearance with good alignment of components.	
Workmanship – internal	Visual Check	Soldered connections do not exhibit incomplete or cold joints, excessive solder or flux residue on joints	
Mechanical Assembly	Visual Check	All mechanical parts shall be securely fixed and prevented from turning.	
Materials			
Enclosure	Visual Check	Report actual	
Carrying Case	Visual Check	Report actual	
Ear Buds	Visual Check	Report actual	
Performance Test			

444883_1

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		Prepared by	Intertek HK - TFH
		Page	4 of 9

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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 product, or any other user-friendliness problems.	
Practical Use	Actual Use	<p>Demonstrates good overall file transfers and file management via the supplied hardware and software components (as applicable).</p> <p>Demonstrates good performance on all labelled media formats (e.g. MP3, WMA, Audible, etc.)</p> <p>For unit and remote control:</p> <p>All buttons and controls demonstrate easy, smooth, and predictable operation</p> <p>General Functions</p> <p>Demonstrates generally good performance of the following functions and features: (as applicable)</p> <ul style="list-style-type: none"> - Sound output, no audible defects - External headphone - All external jacks demonstrate good connectivity and performance (e.g. USB, earphone, etc.) 	
Supported Operating System	Actual Use	Windows ME / Windows 2000 / Windows XP / Vista / Others according to the claimed information.	
Software installation & Usage	Actual Use	Provided software shall be usable in PC and no difficult during installation.	
Continuous Operation Test	In-house method	Set the unit to normal operation; continuously operate for 2 hours. Shall not indicate safety issue, fire risk, or any other abnormality.	
Virus check	Actual Use	Check the product and associated software with a commercial Antivirus program. It shall be virus free.	
Durability of Switches	In-house method	Switches shall continue to function correctly after 200 cycles of operations.	
Battery Life Test	In-house method	<p>Approximate hours of operation at room temperature for fully charged unit (or fresh batteries)</p> <p>Claimed / Measured</p>	

444883_1

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		Issue Date	Dec 09, 2011
		Prepared by	Intertek HK - TFH
		Page	5 of 9

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Player Drop Test	In-house method	Withstand 3 drops from a height of 1 meter onto hardwood surface without loss of consumer serviceability	
Temperature Exposure Test	In-house method	Withstands 4 hrs exposure to the following temperature with no functional degradation - 0 degF - 140 degF	
*Transit Testing (By request only)	ISTA Procedure as Appropriate to Package	Packaged product shall be tested to applicable ISTA procedure and method, based on package configuration. Inspect package and product for damage upon completion of test. Report results.	
MP3 part			
Built in Memory	Visual Check	As specified by manufacturer shown on manual / label	
Expandable Memory	Visual Check	As specified by manufacturer shown on manual / label	
Memory Media Type	In-house Method	As specified by manufacturer shown on manual / label	
Interface method (e.g. USB 1.1 or 2.0)	In-house Method	As specified by manufacturer shown on manual / label	
Total Harmonic Distortion (THD)	In-house Method	For measuring THD at frequency range from 20Hz – 20kHz with reference output at 1kHz THD shall be 1% or less	
Signal to Noise (S/N) Ratio	In-house Method	For measuring the difference with and without signal on the same channel with reference output at 1kHz 50dB or more	
Channel Separation	In-house Method	For measuring separation in reference to Left and Right channels when Right and Left channels recording level is -∞ respectively 30dB or more	
MP4 part			
File Format Supported (e.g. MP4, JPEG)	In-house Method	As specified by manufacturer shown on manual / label	
Radio part			
Frequency Range	In-house method	Radio tuning frequency shall able to receive the following range AM: 530 – 1600kHz FM: 88 – 108MHz	

444883_1

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		Page	6 of 9

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Selectivity	In-house method	Record the selectivity at; AM: 1 kHz FM: 98 MHz	
Maximum Sensitivity	In-house method	The maximum sensitivity should be 70 dB or less for AM and 26 dB or less for FM. Record the reading at; AM: 600, 1000 and 1600 kHz FM: 90, 98 and 106 MHz,	
FM stereo separation	In-house method	Record	
Dial Alignment	In-house method	Check the measuring misalignment of the dial of the receiver. Should be within ± 100 kHz for AM and ± 1 MHz for FM. Record the reading at; AM: 600, 1000 and 1600 kHz FM: 90, 98 and 106 MHz,	
Labeling Requirement			
†Uniform Packaging and Labeling Regulations	NIST Handbook 130 Uniform Laws and Regulations	The following information shall be shown on packaging - Distributor's name & Address (City, State & Zip) Product Identification	
†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. Shall be visible at point of purchase.	
Parts Labeling	Visual Check	Shall match the actual content if present.	
Verify Label Claims	ITS-M0060	Shall comply with all claims.	
Use Labeling	ITS-M0060	Use/care instructions that are clear and understandable shall be provided in language appropriate to destination countries.	
Instructions	ITS-M0060	Shall include assembly, use, maintenance, and safety information as required with no errors or spelling mistakes	
General and Cautionary Markings	Visual Check	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.	
User Manual / Important Safety Instructions / Assembly Instructions	Visual Check	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.	
Wifi (if applicable)	Document Check	Shall have valid Wi-Fi certification report which pass testing according to IEEE802.11.	

444883_1

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		Prepared by	Intertek HK - TFH
		Page	7 of 9

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US FCC Rules	Document Check	FCC part 15DoC report shall be provided for verification if the operating frequency > 9kHz for AC, or operating frequency > 1.705MHz for Battery operated product.	
US FCC Part 15 marking and instruction	Visual Check	<p>Marking shall include,</p> <ul style="list-style-type: none"> - FCC logo, trade name; model number <p>Instruction manual shall include,</p> <ul style="list-style-type: none"> - "Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment." - "NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. <p>However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:</p> <ul style="list-style-type: none"> ■ Reorient or relocate the receiving antenna. ■ Increase the separation between the equipment and receiver. ■ Connect the equipment into an outlet on a circuit different from that to which the receiver is connected. ■ Consult the dealer or an experienced radio/TV technician for help." 	

444883_1

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		Prepared by	Intertek HK - TFH
		Page	8 of 9

Attribute	Test Method / Standard	Requirement / Limit	Result
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) <ul style="list-style-type: none"> - Do not mix old and new batteries - Do not mix alkaline, standard (carbon-zinc), or rechargeable (ni-cad, ni-mh, etc) batteries Battery size or statement regarding no batteries included is provided (on product or packaging)	
Battery Marking (if provided)	Visual Check	Battery bays have replacement pictorials or markings providing the following information; <ul style="list-style-type: none"> - Number of batteries - Battery size / type - Polarity orientation 	
Electric Toy Caution (For items are that are marketed intended for children)	Visual Check	Exhibits following caution statement: “CAUTION – ELECTRIC TOY – Not recommended for children under ___ years of age. As with all electrical products, precautions should be observed during handling and use to reduce the risk of electric shock”	
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.	

444883_1

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		Prepared by	Intertek HK - TFH
		Page	9 of 9

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†Plastic Bag Warning Statement (if applicable)	Massachusetts – 105 CMR 630.000 / New York – 10 NYCRR § 12.12 / Rhode Island – R.I. Gen. Laws § 11-9-16 / California – Cal Bus & Prof Code § 22200	<p>Plastic bags with a thickness of less than one mil (0.001 inch), in which a diameter is 5 inches or greater (when formed into a circle) used as packaging or packaging article for domestic/household use (e.g. laundry bag, garbage bag) shall contain a warning statement similar (at a minimum should describe that there is a suffocation hazard, and how to avoid this hazard) to below on both sides of each 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>The warnings shall be printed clearly as to prevent the ink from smearing or upon a gummed label securely attached to the bag. It shall be contrasted by typography, layout or color from the contents of the bag and from other printed matter on the bag, if any.</p> <p>If the total length and width of the bag is more than 40 inches, the warning shall be repeated at 20 inches intervals. Except laundry bag, the font size of the warning must adhere to the chart listed below:</p> <table><tr><th>Total Length and Width of Bag</th><th>Size of Print</th></tr><tr><td>60 inches or more</td><td>at least 24 point</td></tr><tr><td>40 to 59 inches</td><td>at least 18 point</td></tr><tr><td>25 to 39 inches</td><td>at least 14 point</td></tr><tr><td>Less than 25 inches</td><td>at least 10 point</td></tr></table> <p>For laundry bag, the font size of the warning should be at least 36 points.</p>	Total Length and Width of Bag	Size of Print	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	
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		Prepared by	Intertek HK - TFH
		Page	10 of 9

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†Formaldehyde Labeling	Airborne Toxics Control Measure (ATCM) Cal. Code Regs. Tit. 17, § 93120; California Environmental Protection Agency Air Resource Board, Advisory number 384 – Revised	<p>If practicable, labels must be on both the product and the package containing the finished product. If deemed impracticable, the label must appear on either the packaging or the product. Labels on a product which are visible at the point of sale satisfy both the product and package labeling requirement. Labels may be stickers, stamped, or printed directly on the composite wood product or finished good and should be in a location that is easily accessible.</p> <p>The required information may be on a separate label or incorporated into other existing labels.</p> <p>Labels must be in English and the format, color, size, and font of the label are the decision of the manufacturer or fabricator. Labels must include, at a minimum, the following information:</p> <ul style="list-style-type: none"> • Fabricator's name • Date the finished good was produced using two digit month and four digit year (mm/yyyy) or the two digit month, two digit day, and four digit year (mm/dd/yyyy). • A statement of compliance to denote that the composite wood product or finished good complies with the ATCM. The statement must include the applicable compliance level (Phase 1, Phase 2) or whether the product is made with NAF/ULEF based resins. If deemed impracticable to place the label on both packaging and product, the supplier must provide a letter to the lab justifying why it is not practicable. Labs will not determine whether to accept or deny the justification letter, but must note receipt of the letter and maintain those records. 	

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

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