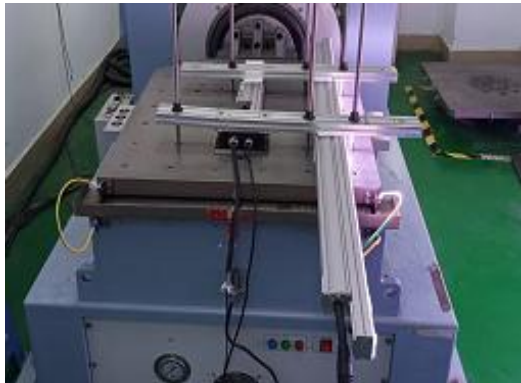







# Product verification and reliability report



Product: Junction Box - Power and DMX to PD

Date: 2025-9-16



Test performed	Condition	Duration	Test lab	Result
<p><b>Application Vibration Test</b> -Verification of Protection against transportation and installation vibration</p> 	<p>Sinusoidal vibration test acc. to IEC 60068-2-6</p> <p>Random vibration acc. to IEC 60068-2-64.</p> <p>ANSI C136-31 ((Bridge &amp; Overpass Applications 3g)</p> <p>Fixture powered during the test</p>	<p>3 x 30 mins.</p> <p>3 x 30 mins.</p> <p>3 x 30 mins</p>	<p>Martin Professional</p>	<p>Pass</p>
<p><b>IP Class Test</b> - Verification of protection against intrusion of dust and water</p> 	<p>IP66 according to IEC/EN60598</p>	<p>8h /3 mins.</p>	<p>Martin Professional</p>	<p>Pass</p>

<p><b>Salt Mist Test</b> – Verification of corrosion resistance of materials and surface coatings</p> 	<p>Neutral Salt Spray test, 5%, 35°C, ASTM B117/ ISO 9227, EN 12944-6, C5-H</p>	<p>1440 hours</p>	<p>Martin Professional</p>	<p>Pass</p>
<p><b>Packing drop Test</b> - Verification of products and packing strength</p> 	<p>ISTA 3A, 9+8 drops</p>	<p>N/A</p>	<p>Martin Professional</p>	<p>Pass</p>
<p><b>Wind load Test</b> - Wind load simulation</p> 	<p>Tested according to EN60598-2-5  Static load simulating 60 m/sec. (216 km/h) wind force without causing failure or permanent set to mount bracket</p>	<p>10 mins.</p>	<p>Martin Professional</p>	<p>Pass</p>
<p><b>High Temperature Aging Test</b> - 60 °C during operation</p> 	<p>Tested to ambient temperature Ta @+60 °C for robustness</p>	<p>4hrs.</p>	<p>Martin Professional</p>	<p>Pass</p>

<p><b>Operation Temperature Test</b> - -30 °C to +45°C during operation</p> 	<p>Designed and tested to ambient temperature Ta (min/max): -30 °C to +45 °C</p>	<p>24 hours</p>	<p>Martin Professional</p>	<p>Pass</p>
<p><b>Outdoor Lifetime Test</b> - Verification of product lifetime in the outdoor environment</p> 	<p>Power on 24h/7d in the outdoor weathering with water sprinkler system activated one hour every sunny day</p>	<p>10000 hours</p>	<p>Martin Professional</p>	<p>Pass</p>

*Justin*

Report prepared and verified by:

Justin XU, Principal Test Engineer

Department:

Martin Professional, R&D, Test and Validation

Date:

2025-9-16

Revision:

A