




Product verification and reliability report

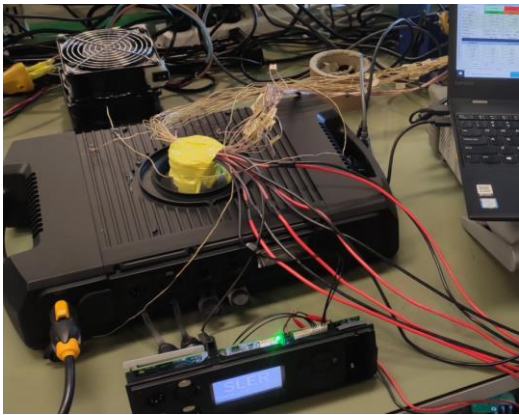
Product: MAC Viper XIP

Date: 2025-02-18



Test performed	Condition	Duration	Test lab	Result
Cold Climate Verification of performance in cold environments. 	Martin Test Specification	12 hours	Martin	Pass
Humidity 	Martin Test Specification	144 hours	Martin	Pass

<p>Mechanical Endurance</p> <p>Verification of product feature performance.</p> 	<p>Accelerated lifetime verification of mechanical features like Pan/Tilt, CMY, Framing, Gobo, Animation, Iris, Prism, Frost and Zoom/Focus systems.</p>	<p>Approx 8 months</p>	<p>Martin</p>	<p>Pass</p>
<p>Application Vibration and Bump Test</p> <p>Verification of lifetime robustness in different product applications.</p> 	<p>Martin Test Specification</p> <p>Fixture powered during test.</p>	<p>8 hours</p>	<p>Martin</p>	<p>Pass</p>
<p>Thermal Test</p> <p>Verification of product temperature robustness.</p>	<p>Designed and tested to ambient temperature Ta (min/max): -10°C to +40 °C</p>	<p>NA</p>	<p>Martin</p>	<p>Pass</p>



Water and Dust Test

Verification of protection against intrusion of dust and water.



--	--	--	--	--

IP54 according to IEC/EN60529
 UL Rain test 1573

IPX4: 2 x 10 min. (4 orientations)
 IP5X:4 hours
 UL Rain: 4 hours

Martin / Force / Intertek

Pass

The material contained in this document supersedes all previous documentation issued for the related products included herein. The document and the information contained, in whole or in part, are protected by copyright laws, trademark and design rights. Any unauthorized use of the document and its contents will be considered a violation of Martin Professional ApS intellectual property rights





Haze & Dust

Verification of performance in hazy (smoke fluid) and dusty environments.

Martin Test Specification

240 h

Martin

Pass



Surge / Transient Test

Surge immunity from power switches and lightning.



EN61000-4-5:2014+A1:2017

NA

Martin & SGS

Pass

Packing drop Test

Verification of products and packing strength test of SIP and EPS packing solution.



Nord-test method NT ELEC M601.

EPS Free fall: 65 cm. 12 drops

SIP Free fall: 55 cm. 12 drops

NA

Martin

Pass



Product Lifetime testing

Outdoor test (Started Feb 2024)



Outdoor Scandinavian climate (approx. -10° to 25°C), Indoor Ta 30°C

24h/day

Martin

Ongoing

Indoor lifetime test (Started June 2024)



Report prepared and verified by:

Department:

Date:

Revision:

Bo Horsted Poulsen

Bo Horsted Poulsen, Principal Systems Engineer

Martin Professional, R&D Systems

18-02-2025

01