

CASE STUDY



NetworkHD AV over IP Decoder

sealoc creates outdoor solution for
WyreStorm with weatherproof AV
over IP Decoder.

THE CHALLENGE

In Spring 2022, WyreStorm needed a solution for their AV integrators who utilize AV over IP signal distribution for outdoor environments, or environments where corrosion may jeopardize the longevity of an AV over IP decoder.



Why did WyreStorm select Sealoc?

sealoc is a respected manufacturer and industry leader in providing custom weatherproofing solutions for electronics. All weatherproofing and weatherloc services are proudly performed in McKinney, Texas, USA.

“We are very excited here at sealoc”, says sealoc President Rick Webster, “to work with a company as respected in our industry as WyreStorm. Like sealoc, WyreStorm manufactures high-quality, dependable products, and we share a large customer-base as well. This partnership expands our AV integrator client’s capabilities with commercial and residential outdoor solutions. Moreover, WyreStorm will be the first company to offer an AV over IP decoder solution to the marketplace.”

THE SOLUTION



What did we do?

sealoc performed weatherproofing services on WyreStorm's NetworkHD AV over IP Decoders (NHD-110-RX-S) using our proprietary Weatherloc solution - a superhydrophobic conformal nano-coating solution which creates an invisible, durable, corrosion-resistant, waterproof protective layer. This Weatherloc barrier creates a protective 100° positive contact angle for water and liquids, insuring they cannot adhere to, or penetrate the surface of the printed circuit boards. This safeguards components from short-circuits, corrosion, or electrical fouling. sealoc's Weatherloc is permanently adhered to the circuitry, creating a corrosion-resistance barrier as well as protecting the device against water, moisture, humidity, dust, salt-air, and corrosion. Moreover, sealoc's unique conformal Weatherloc also protects the connection points (e.g. RJ45, HDMI, RS232, etc.) from corrosion, while still allowing uninhibited electricity to pass through without signal loss.

How did we do it?

sealoc's research and development teams performed weeks of extensive testing in our proprietary lab recreating extreme weather conditions, such as rain, salt-fog, humidity, and extreme temperatures, to test the overarching effectiveness of sealoc's nano fluid treatment. Once testing was completed, sealoc certified the WyreStorm HDMI Decoders to be IP65 protected.

THE RESULTS

What makes us unique?

sealoc's goal first and foremost is to help protect our planet from having harmful components put into landfills, and a close second is to help our clients extend the life of these electronics for many more years than they would otherwise last when exposed to rain, acid rain, humidity, salt-air, and other corrosive environments.

"It was a no-brainer for WyreStorm to partner with sealoc", says Andrew Herron, Product Development Director at WyreStorm. "NetworkHD's strong presence in hospitality and live events provided the perfect opportunity to create a solution that brings value to the market and our customers. sealoc's treatment uses incredible technology and we're ecstatic to be one of the first manufacturers to offer a weatherproof AV over IP receiver at the OEM level", he adds.



<https://www.wyrestorm.com/product/nhd-110-rx-s/>

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