

Tyne Tunnel

August 2011

Conway Security Products supplied their external camera housings to the £260m New Tyne Crossing between Jarrow and North Shields in the north-east of England.

The housings used are a variant on Conway's stainless steel EH4 housing. The unit, which is manufactured to weatherproof level IP66, is usually produced in 304-grade stainless steel but for this project, installers 2020 Vision Technology asked for 316 grade.

All of Conway's units are manufactured in their entirety at the company's headquarters in Buckinghamshire, England, and this made it possible to provide a tailor-made solution within short lead times which was a major benefit for the integrator. The Conway housings were specified to protect IP cameras from Axis which were chosen to allow tunnel operators to monitor footage of traffic and respond effectively to incidents.

Steve Hall of 2020 Vision Technology described the benefits of using the Conway equipment. He said: "Most housings come off-the-shelf to a standard specification and the manufacturer is not in a position to make changes, and certainly not promptly.

"Conway met our brief on the grade of stainless steel and also created bespoke bracketry which meant the housings could

be mounted in a manner that allowed them to withstand exceptional vibration levels caused by traffic volumes. The design also optimised cable access and containment issues for our engineers, another plus factor in an environment where space is at a premium."

TT2 used a DigiWall display system from Sicura Systems as well as DigiLive management software to process disparate information types. Video analytics scenarios for alarm generation included sterile zones for central reservations and escape lanes as well as speed and direction of movement.

Chris Newman, Managing Director of Conway, said: "The end-user, TT2, had a requirement to optimise their management views, and CCTV was an important concern for them along with data from SCADA devices, access control and intruder alarms. Conway worked closely with the management team at 2020, sharing challenges and selecting materials which would cope with the harsh conditions and minimise on-site installation time and disruption to core activities at the tunnel."

The EH4/ss housing has been used across the world in diverse applications. The material and manufacturing process make it ideal for any environment where corrosive elements are present. The combination of EH4/ss housing and the mounts designed by Conway has



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become a widely-used solution in tunnel management systems such as the one deployed at TT2. Projects including the Hatfield Tunnel in Hertfordshire and the Medway Tunnel in Kent have used the same configuration to deliver excellent results in demanding conditions.

With challenging time scales and a diverse range of products from different manufacturers, 2020 Vision Technology chose to work with Pro-Vision Distribution to ensure that the procurement side of the project could be delivered on time and to budget.

Pro-Vision co-operated closely with Conway

and 2020 to ensure that everyone knew what was required and when. This inclusive approach from a distribution partner is essential in infrastructure projects where missed deadlines are expensive to all parties.

The Tyne Tunnels site (which includes dedicated tunnels for pedestrians and cyclists with listed building status) is located 11 km to the east of Newcastle upon Tyne and forms part of the A19 road. The project involved construction of a second vehicle tunnel featuring four 90-metre immersed tube sections under the river Tyne and redesign of the southern interchange at the entrance to the original 1967 tunnel.



www.conway-cctv.com

About the EH4/ss housing from Conway

Based on the standard Conway EH range, the EH4/ss stainless steel camera housing has an IP65 rating. The unit is ideal for corrosive environments where standard aluminium models would not be suitable. The housings are manufactured from high-quality 304(2b) grade stainless steel and finished with a clear polyester lacquer to further protect them. A 12-36v screen heater/demister is supplied as standard.



Stainless steel housings are often associated with marine environments but they are crucial in applications such as chemical plants, traffic monitoring and the food processing industry where there are further specification requirements. The Conway range offers a familiar CCTV product for these specialised sectors.

The EH4/ss is suitable for fixed and varifocal lenses. The housing can be complemented by the WB300SS stainless steel bracket complete with swivel or even one of Conway's stainless steel pan and tilts.

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About 2020 Vision Technology



2020 Vision Technology is a leading installer of CCTV, access control, alarm management, monitoring and detection with almost 20 years' experience.

The company has embraced the advent of IP-based digital security solutions and its consultants exploit artificial intelligence software to give customers more powerful, sophisticated and flexible systems which allow secure shared event monitoring and recording. Projects range from security installation to integrated situation management as a total solutions provider.

All systems installed by 2020 Vision are backed by a comprehensive guarantee and a 24/7 after-sales support package. 2020 Vision have proved in the form of ISO9001:2008 certification and third-party inspection by the SSAIB and police CCTV experts that they have the ability to safely and efficiently handle major systems projects.

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About Pro-Vision Distribution Ltd



Pro-Vision is an independently owned trade distributor of CCTV and access control products in the UK. From a 20,000 sq ft warehouse Pro-Vision offer only 100% branded goods and for this reason the sales team prides itself on offering informed, unbiased advice as there is no pressure to sell 'own-label' equipment. The company stocks equipment from over 50 suppliers.

Based in Shrewsbury, Shropshire, Pro-Vision issue a trade price list of over 2,500 products twice a year. Clients benefit from the expertise of friendly and informative customer service staff and technical support engineers. Full repair facilities are available. Opening hours have recently been extended to 8.45 am - 5.45 pm Monday to Friday. Orders received up to 5.30 pm (subject to availability) are delivered next day.

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Key challenges

- Protect camera and lens assembly from fumes and other contaminants, working in non-standard 316-grade stainless steel to reduce risk of corrosion.
- Devise tailor-made bracketry to optimise cable configuration options for installer and minimise camera movement amid exceptional vibration caused by traffic volumes in confined space.
- Assist in optimising management views for end-user.
- Meet and exceed requirements of Department for Transport standard BD 78/99.



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