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TEST CERTIFICATE

CLIENT: TÜV SÜD
Octagon House
Concorde Way
Fareham
Hampshire
PO15 5RL

CERTIFICATE NUMBER 19117/01 Issue 02

CUSTOMER ORDER NUMBER 260009908

TUV Reference: 75946266

CHNAGELOG

Issue	Section and description of change	Date	By
02	Entire document: changes BS EN 60529:1993+A2:2013 to IEC 60529:1989 +A2:2013. These two documents are identical as stated in BS EN 60529:1993+A2:2013: National Forward	01/07/20	Greg Spicer

DATE OF RECEIPT 12 June 2019

EQUIPMENT SUPPLIER Jenoptik Traffic Solutions UK Ltd, Ten Watchmoor Park, Riverside Way, Camberley, Surrey, GU15 3YL

TEST ITEM(S)

Description	Serial Nº	Model Nº	PTL ID
ANPR Camera	SB 110418-1391	8902-Z11-6A	28365
Flood Light	SB 050718-0617	VYS-8903-A21-1A	28366

MODIFICATION RECORD:

Flood Light:
On the first attempt, water ingress was discovered in the flood light; it was necessary to refit and reapply adhesive to the gasket seal which had not been fully applied during the assembly process. A thin run of silicon sealant was applied to the perspex panel on the front of the unit.

TEST SPECIFICATION / ISSUE IEC 60529:1989 +A2:2013 IP68 Category 1

DATE OF TEST 17 June 2019

TEST(S) APPLIED

Protection Against Solid Foreign Objects, Dust-Tight

Initially the test items were examined for apertures and openings allowing penetration of a 1mm diameter probe applied with a force of 1N.

Prior to testing a 19.9 mbar vacuum was applied to each of the unit, the air flow was below measurable therefore a test period of 8 hours was required, during the test period the units were linked together while a vacuum was applied. The test conditions were as follows:

Dust Grade:	BS EN 60529 Talc Test Dust
Concentration:	2 kg/m^3
Duration:	8 hrs
Temperature/Humidity:	21.0°C / 43% rh

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UKAS TESTING
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TEST(S) APPLIED

Protection Against Water Immersion

Initially the test items were examined before being secure to a platform for immersion into water. The units were then allowed to temperature stabilise until the temperature differential between the water and the units was less than 5°C. The units were then placed 1 metre below the surface of the water for a period of 1 hour. It was advised by the equipment supplier that extending the duration from 30 minutes to 1 hour would take into account the condition that the test items could be continually immersed in actual use and therefore was sufficient for IPX8.

The test conditions were as follows:

Depth:	1000 mm maximum depth to the base of the enclosures
Duration:	1 hour
Water	15.3°C
Test Items	18.6°C

RESULT(S) OF TEST

IP6X

There were no apertures permitting entry with a 1mm diameter probe when using a force of 1N.

On completion of the excess dust was removed by light brushing, no conspicuous damage was noticed on the exterior of the unit. When inspected internally there was no visible dust ingress into either unit.

RESULT(S) OF TEST

IPX8

On completion, excess water was removed from the external surfaces and an internal inspection was performed. There was no visible water ingress into either unit.

COMPLIANCE

The ANPR Camera unit conformed to the standard required of IEC 60529:1992 + A2:2013 IP68 Category 1.

The Flood Light with modifications detailed above conformed to the standard required of IEC 60529:1989 + A2:2013 IP68 Category 1.

Approved by . . . . . .
Greg Spicer, MEng
Managing Director
Date: 02 July 2020