



시험 성적서

TEST REPORT

페이지(page) : (1) / (Total 11)

시험 성적서 번호 Report No.		ICRT-TR-R180106-0A	
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시험대상품목 Sample description		Network Camera	
모델명 Type designation		XNV-6081Z	
정 격 Ratings		-	
시험기간 Date of test		2018. 10. 18 ~ 2018. 10. 19	
시험방법/항목 Test Method/Item		ISO 20653 : 2013 (IP6K9K)	
시험결과 Test Results		Reference to see Table 3), on page 8	
확 인 Affirmation	작성자 Tested by	기술책임자 Technical Manager	
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ICRT-QP-22-02 Rev.5



G4B(www.g4b.go.kr)진위확인코드 : 1QS7VU6nUkc=





1. Test Specimen



Fig. 1) Photo of the specimens

※ derivative model

대표모델	파생 모델명	인증시험
XNV-6081Z	XNV-8081Z, XNV-6081, XNV-6081R, XNV-8081R, PNV-A6081R, PNV-A9081R, XNV-8082R, XNV-9082R, XNV-6081RE, XNV-8081RE,	IP6K9K



2. Test Methods

2-1) Test Standard : ISO 20653 (2013) - IP6KX

- Fix the specimen on the test shelf of spray tester.
- Fix spray nozzle of test equipment at (2.5 ~ 3) m distance from product.
- The test is carried out under the test conditions given in Table 1.
- After the test, remove the water from the surface of the specimen.
- Check the appearance of the specimen and the operation of the specimen.

Water temperature	Degree of protection	Operating Pressure	Nozzle diameter	Note
10 ± 5 °C	6K	Approx. 1 000 kPa	6,3 mm	The test proceeds with non-operating conditions.
Water flow rate	Distance	Water splash cycle		
75 L / min ± 5 %	2,5 m to 3 m	1Cycle (30 min on / 30 min off) Total 48 Cycle		

Table 1) Condition of the test

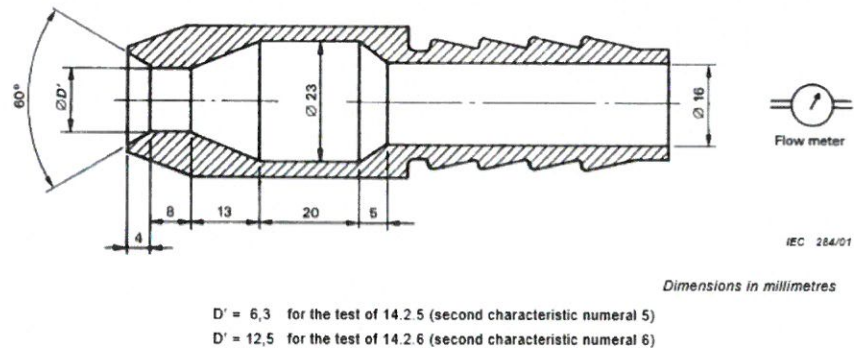


Fig. 2) Test device to verify protection against water 6K



2-2) Test Standard : ISO 20653 (2013) – IPX9K

- Fix the specimen on the test shelf of IP9K tester.
- The test is carried out under the test conditions given in Table 2.
- After completion of the test, the water on the specimen surface is completely removed.
- Check the appearance of the specimen and check the water penetration inside.

Tun table speed (r/min)	Water temperature (°C)	Water flow rate (L/min)	Operating Pressure (kPa)
5 ± 1	80 ± 5	14 to 16	8 000 to 10 000
	Spray angle position	Distance (mm)	Exposure time
	0°, 30°, 60°, 90°	100 to 150	30 s per position

Table 2) Condition of the test

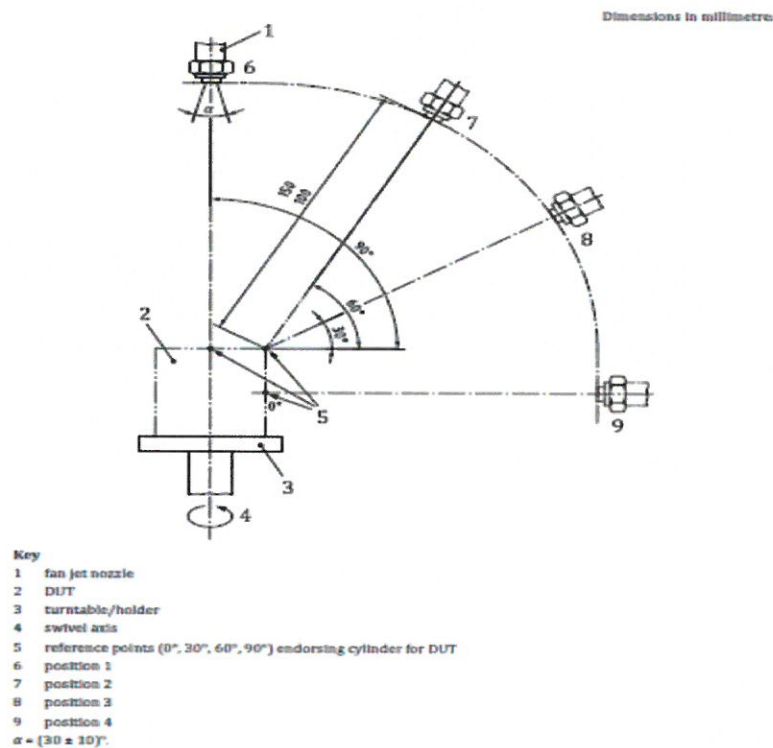


Fig. 3) Test device to verify protection against water 9K

3. Photos of the test set-up and Test Graph



3-1) IPX6K



Figure 4) Photo of the specimen set up



Figure 5) Photo of the specimen set up (enlarge)

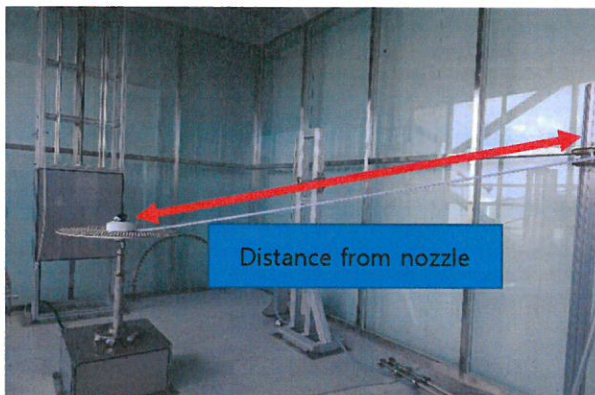


Figure 6) Photo of the specimen set up
(Distance from nozzle)

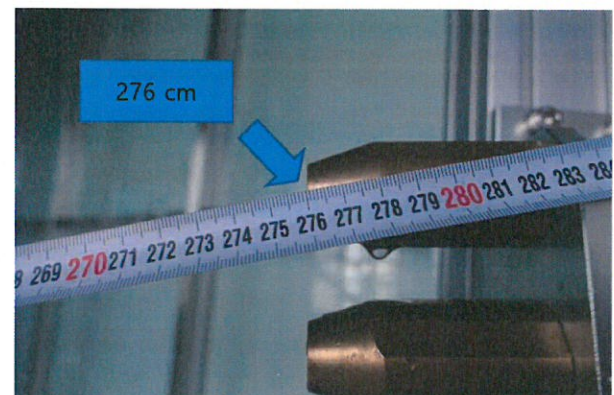


Figure 7) Photo of the specimen set up
(Enlarge, Distance from nozzle)





Figure 8) Photo of the test condition
(Test time)

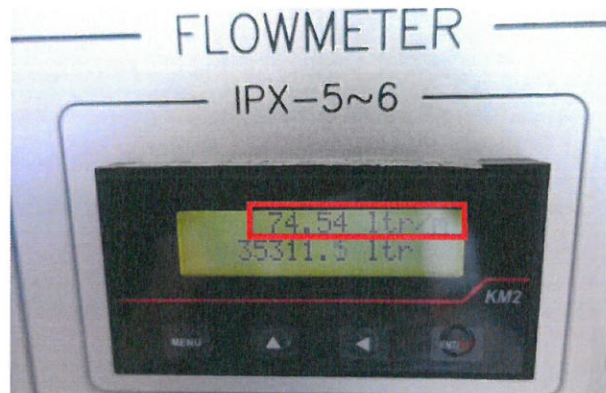


Figure 9) Photo of the test condition
(Water flow rate)



Figure 10) Photo of the specimen set up
(During the test)



Figure 11) Photo of the specimen set up
(After of the test)



3-2) IPX9K



Fig. 12) Photo of the test set up

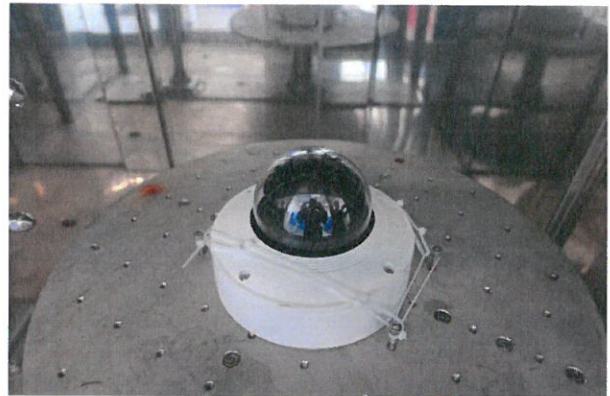


Fig. 13) Photo of the test set up (Enlarge)

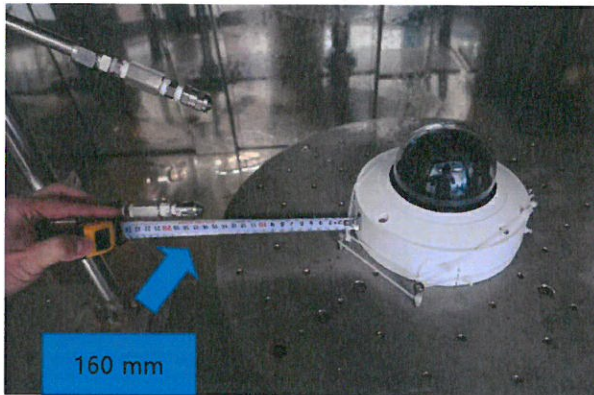


Fig. 14) Photo of the test specimen set up (0°)

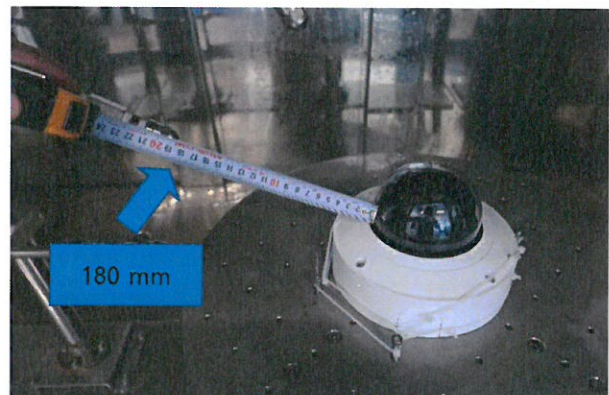


Fig. 15) Photo of the test specimen set up (30°)

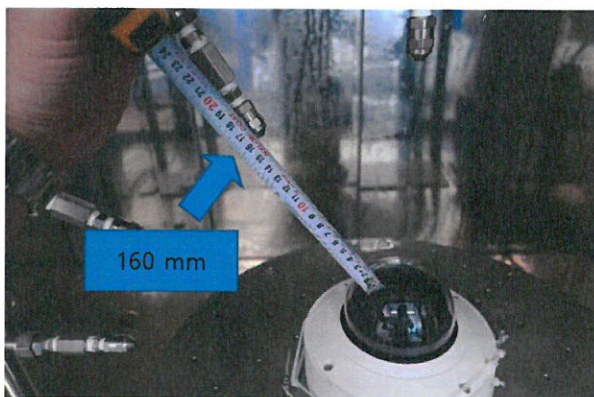


Fig. 16) Photo of the test specimen set up (60°)

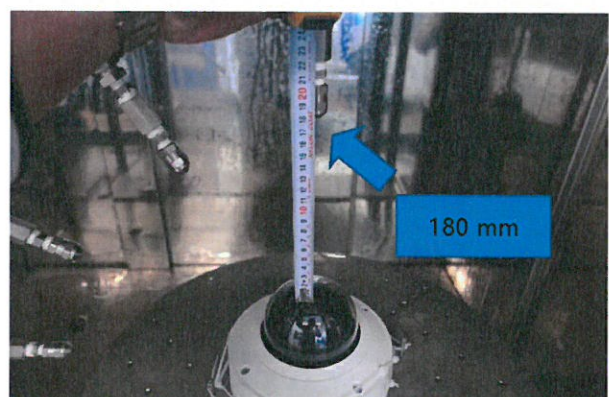


Fig. 17) Photo of the test specimen set up (90°)





Fig. 18) Photo of the test condition
(Exposure time - 30 s per position)



Fig. 19) Photo of the test specimen set up
(Water pressure)

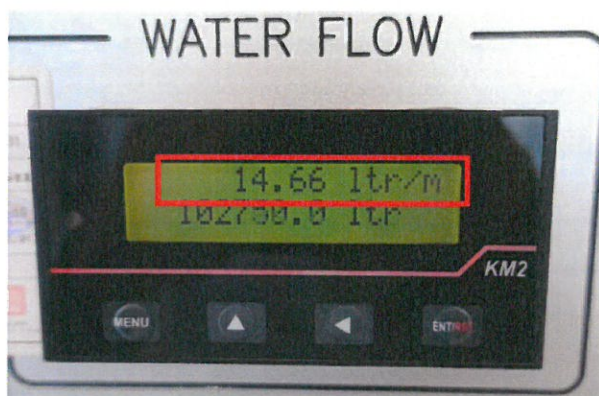


Fig. 20) Photo of the test specimen set up
(Water flow rate)



Fig. 21) Photo of the test specimen set up
(Water temperature)

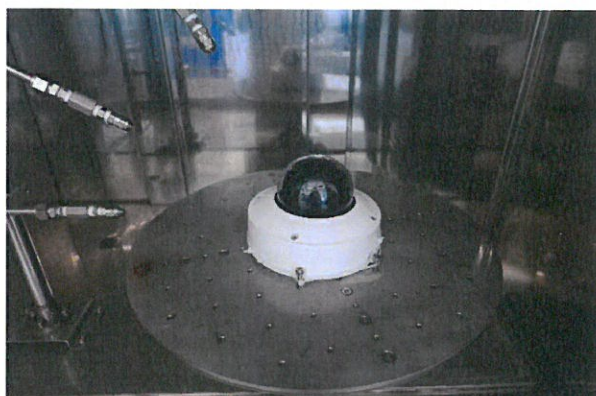


Fig. 22) Photo of the test specimen set up
(After of the test)

4. Test Result

4-1) IPX6K





Fig. 23) Photo of specimen after the test



Fig. 24) Photo of specimen after the test

4-2) IPX9K

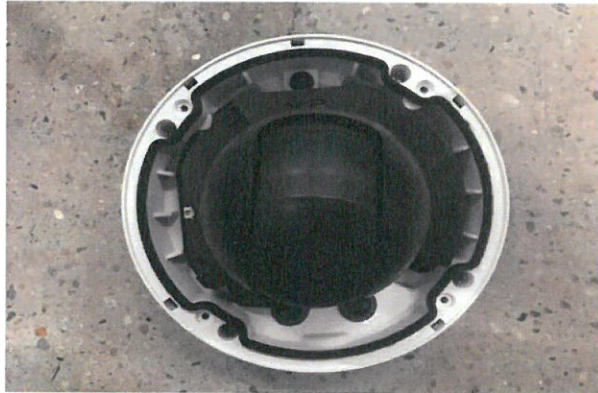


Fig. 25) Photo of specimen after the test



Fig. 26) Photo of specimen after the test





Test name	Test result	Note
IPX6K	No water penetrated inside the tester	Visual inspection
IPX9K	No water penetrated inside the tester	

Table 3) Test result

5. Test equipment

Equipment name	Model	Manufacturer	Next Calibration date
Waterproof Tester	JFMB-008-IPX	JFMTECH / KOREA	2018. 01. 25
Waterproof tester	JFMB-008-9K	JFMTECH / KOREA	2019. 01. 15
Tape measure	KMC-34 (5.5 m * 19 mm)	KOMELON / CHINA	2019. 10. 11

END.



*** Appendix**

- Product drawing

Unit : mm (inch)

APPERANCE-XNV-6081Z ver.180912

XNV-6081Z

