



**BUREAU
VERITAS**

ATTESTATION

of conformity with European Directives

BV LCIE CHINA Number N° 2066AS03DHQA34150-N1

This attestation replaces the attestation N° 2066AS03DHQA34150 which was cancelled

Product IP CAMERA

Reference See page 2-3


Issued to ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.

Address No.1199, Bin'an Road, Binjiang District, Hangzhou, P. R. China

Manufacturer ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.

Technical characteristics 12V $\overline{\text{---}}$, 0.5A/1A or POE(802.3af 36-57V $\overline{\text{---}}$, 0.35A) for EUT.

I/P: 100-240V~, 50/60Hz, O/P: 12V $\overline{\text{---}}$, 0.5A/1A for AC Adapter (optional).

The submitted sample of the above equipment has been tested for  marking according to following European



Directive and following standards:

Low Voltage Directive 2014/53/EU

<i>Standards</i>	<i>Report number</i>	<i>Report date</i>
EN 62368-1: 2014+A11: 2017	DHQA-ESH-P20022102-R1	2022-05-25

The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of compliance with the essential requirements in the specified European Directive

This verification does not imply assessment of the production of the product

The  marking may be affixed if all relevant and effective European Directives with  are applicable

Shanghai (P.R. China), May 25th, 2022



Tom Zhang
Product Line Manager

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BV LCIE CHINA Number

N° 2066AS03DHQA34150-N1

This attestation replaces the attestation N° 2066AS03DHQA34150 which was cancelled

Reference

DH-IPC-HFW3549EP-AS-LED, DH-IPC-HFW3549EN-AS-LED, IPC-HFW3549EP-AS-LED, IPC-HFW3549EN-AS-LED, DH-IPC-HFW3549E-AS-LED, IPC-HFW3549E-AS-LED, IPC-HFW3549E-AS-LED-0280B, IPC-HFW3549E-AS-LED-0360B, DH-IPC-HFW3249EP-AS-LED, DH-IPC-HFW3249EN-AS-LED, IPC-HFW3249EN-AS-LED, IPC-HFW3249EP-AS-LED, DH-IPC-HFW3249E-AS-LED, IPC-HFW3249E-AS-LED, IPC-HFW3249E-AS-LED-0280B, IPC-HFW3249E-AS-LED-0360B, DH-IPC-HFW3449EP-AS-LED, DH-IPC-HFW3449EN-AS-LED, IPC-HFW3449EP-AS-LED, IPC-HFW3449EN-AS-LED, DH-IPC-HFW3449E-AS-LED, IPC-HFW3449E-AS-LED, IPC-HFW3449E-AS-LED-0280B, IPC-HFW3449E-AS-LED-0360B, DH-IPC-HFW3541EP-AS, DH-IPC-HFW3541EN-AS, IPC-HFW3541EP-AS, IPC-HFW3541EN-AS, DH-IPC-HFW3541E-AS, IPC-HFW3541E-AS, DH-IPC-HFW3541EP-SA, DH-IPC-HFW3541EN-SA, IPC-HFW3541EN-SA, IPC-HFW3541EP-SA, DH-IPC-HFW3541E-SA, IPC-HFW3541E-SA, DH-IPC-HFW3241EP-AS, DH-IPC-HFW3241EN-AS, IPC-HFW3241EP-AS, IPC-HFW3241EN-AS, DH-IPC-HFW3241E-AS, IPC-HFW3241E-AS, DH-IPC-HFW3241EP-SA, DH-IPC-HFW3241EN-SA, IPC-HFW3241EP-SA, IPC-HFW3241EN-SA, DH-IPC-HFW3241E-SA, IPC-HFW3241E-SA, DH-IPC-HFW3441EP-AS, DH-IPC-HFW3441EN-AS, IPC-HFW3441EP-AS, IPC-HFW3441EN-AS, DH-IPC-HFW3441E-AS, IPC-HFW3441E-AS, DH-IPC-HFW3441EP-SA, DH-IPC-HFW3441EN-SA, IPC-HFW3441EP-SA, IPC-HFW3441EN-SA, DH-IPC-HFW3441E-SA, IPC-HFW3441E-SA, IPC-HFW3241E-SA-0280B, IPC-HFW3441E-SA-0280B, IPC-HFW3541E-SA-0280B, IPC-HFW3241E-SA-0360B, IPC-HFW3441E-SA-0360B, IPC-HFW3541E-SA-0360B, IPC-HFW3241E-SA-0600B, IPC-HFW3441E-SA-0600B, IPC-HFW3541E-SA-0600B, IPC-HFW3241E-AS-0280B, IPC-HFW3441E-AS-0280B, IPC-HFW3541E-AS-0280B, IPC-HFW3241E-AS-0360B, IPC-HFW3441E-AS-0360B, IPC-HFW3541E-AS-0360B, IPC-HFW3241E-AS-0600B, IPC-HFW3441E-AS-0600B, IPC-HFW3541E-AS-0600B, N23AB52, N23AB53, N23AB56, N43AB52, N43AB53, N43AB56, N53AB52, N53AB53, N53AB56, DH-IPC-HFW3249EP-AS-NI, DH-IPC-HFW3249EN-AS-NI, IPC-HFW3249EN-AS-NI,

Shanghai (P.R. China), May 25th, 2022



Tom Zhang
Product Line Manager

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**BUREAU
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BV LCIE CHINA Number

N° 2066AS03DHQA34150-N1

This attestation replaces the attestation N° 2066AS03DHQA34150 which was cancelled

Reference

IPC-HFW3249EP-AS-NI, DH-IPC-HFW3249E-AS-NI, IPC-HFW3249E-AS-NI, IPC-HFW3249E-AS-NI-0280B, IPC-HFW3249E-AS-NI-0360B, DH-IPC-HFW3449EP-AS-NI, DH-IPC-HFW3449EN-AS-NI, IPC-HFW3449EP-AS-NI, IPC-HFW3449EN-AS-NI, DH-IPC-HFW3449E-AS-NI, IPC-HFW3449E-AS-NI, IPC-HFW3449E-AS-NI-0280B, IPC-HFW3449E-AS-NI-0360B, N43BB82, N43BB83, N43BB62, N43BB63, DH-IPC-HFW2541E-S, IPC-HFW2541E-S, DH-IPC-HFW2541E-S-0280B, DH-IPC-HFW2541E-S-0360B, IPC-HFW2541E-S-0280B, IPC-HFW2541E-S-0360B.

Shanghai (P.R. China), May 25th, 2022

CE

Tom Zhang
Product Line Manager

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ATTESTATION
Number

DHQA-19JY0824VTSHPB-A2-V

Verification of Compliance



Product : IP CAMERA
Reference : See next page for details
Applicant : ZHEJIANG DAHUA VISION TECHNOLOGY CO.,LTD.
Address : No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China
Manufacturer : ZHEJIANG DAHUA VISION TECHNOLOGY CO.,LTD.
Address : No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China
Technical characteristics : DC12V/1A; POE(802.3af)

The submitted sample of the above equipment has been tested for  marking according to following European Directive and following standards:

Electromagnetic Compatibility Directive 2014/30/EU

Standards	Report number	Report date
EN 55032:2015+A11:2020+A1:2020, Class B EN IEC 61000-3-2: 2019+A1:2021 EN 61000-3-3: 2013+A1: 2019 EN 55024: 2010+A1: 2015 EN 55035:2017+A11:2020 EN 50130-4: 2011+A1: 2014	DHQA-19JY0824VTSHPB-A2	24/05/2022

The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of compliance with the essential requirements in the specified European Directive

This verification does not imply assessment of the production of the product
 The  marking may be affixed if all relevant and effective European Directives with  are applicable

Shanghai (P.R. China), MAY.24, 2022.



Daniel SUN
EMC Lab Manager

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 Information given in this document, are related to the tested specimen of the described electrical sample.

BUREAU VERITAS ADT (Shanghai)
Corporation
必维诚硕科技(上海)有限公司
Version 12/2015 6.9

No. 829, Xinzhuan Road, Shanghai, P.R.China
(201612)

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Fax: +86 21 6195 0001
Email: bvadtshmail@cn.bureauveritas.com



ATTESTATION
Number

DHQA-19JY0824VTSHPB-A2-V

Continued
Model No.:

Test Model: DH-IPC-HFW3541EP-AS

Series Model 1: DH-IPC-HFW3541EP-AS; DH-IPC-HFW3541EN-AS;
IPC-HFW3541EP-AS; IPC-HFW3541EN-AS; DH-IPC-HFW3541E-AS;
IPC-HFW3541E-AS; DH-IPC-HFW3541EP-SA; DH-IPC-HFW3541EN-SA;
IPC-HFW3541EN-SA; IPC-HFW3541EP-SA; DH-IPC-HFW3541E-SA;
IPC-HFW3541E-SA; DH-IPC-HFW3241EP-AS; DH-IPC-HFW3241EN-AS;
IPC-HFW3241EP-AS; IPC-HFW3241EN-AS; DH-IPC-HFW3241E-AS;
IPC-HFW3241E-AS; DH-IPC-HFW3241EP-SA; DH-IPC-HFW3241EN-SA;
IPC-HFW3241EP-SA; IPC-HFW3241EN-SA; DH-IPC-HFW3241E-SA;
IPC-HFW3241E-SA; DH-IPC-HFW3441EP-AS; DH-IPC-HFW3441EN-AS;
IPC-HFW3441EP-AS; IPC-HFW3441EN-AS; DH-IPC-HFW3441E-AS;
IPC-HFW3441E-AS; DH-IPC-HFW3441EP-SA; DH-IPC-HFW3441EN-SA;
IPC-HFW3441EP-SA; IPC-HFW3441EN-SA; DH-IPC-HFW3441E-SA;
IPC-HFW3441E-SA; IPC-HFW3241E-SA-0280B; IPC-HFW3441E-SA-0280B;
IPC-HFW3541E-SA-0280B; IPC-HFW3241E-SA-0360B; IPC-HFW3441E-SA-0360B;
IPC-HFW3541E-SA-0360B; IPC-HFW3241E-SA-0600B; IPC-HFW3441E-SA-0600B;
IPC-HFW3541E-SA-0600B; IPC-HFW3241E-AS-0280B; IPC-HFW3441E-AS-0280B;
IPC-HFW3541E-AS-0280B; IPC-HFW3241E-AS-0360B; IPC-HFW3441E-AS-0360B;
IPC-HFW3541E-AS-0360B; IPC-HFW3241E-AS-0600B; IPC-HFW3441E-AS-0600B;
IPC-HFW3541E-AS-0600B; N23AB52; N23AB53; N23AB56; N43AB52; N43AB53;
N43AB56; N53AB52; N53AB53; N53AB56

Series Model 2: DH-IPC-HFW3249EP-AS-LED; DH-IPC-HFW3249EN-AS-LED;
IPC-HFW3249EN-AS-LED; IPC-HFW3249EP-AS-LED; DH-IPC-HFW3249E-AS-LED;
IPC-HFW3249E-AS-LED; IPC-HFW3249E-AS-LED-0280B;
IPC-HFW3249E-AS-LED-0360B; DH-IPC-HFW3249EP-AS-NI;
DH-IPC-HFW3249EN-AS-NI; IPC-HFW3249EN-AS-NI; IPC-HFW3249EP-AS-NI;
DH-IPC-HFW3249E-AS-NI; IPC-HFW3249E-AS-NI; IPC-HFW3249E-AS-NI-0280B;
IPC-HFW3249E-AS-NI-0360B; DH-IPC-HFW3449EP-AS-LED;
DH-IPC-HFW3449EN-AS-LED; IPC-HFW3449EP-AS-LED;
IPC-HFW3449EN-AS-LED; DH-IPC-HFW3449E-AS-LED; IPC-HFW3449E-AS-LED;
IPC-HFW3449E-AS-LED-0280B; IPC-HFW3449E-AS-LED-0360B;
DH-IPC-HFW3449EP-AS-NI; DH-IPC-HFW3449EN-AS-NI; IPC-HFW3449EP-AS-NI;
IPC-HFW3449EN-AS-NI; DH-IPC-HFW3449E-AS-NI; IPC-HFW3449E-AS-NI;
IPC-HFW3449E-AS-NI-0280B; IPC-HFW3449E-AS-NI-0360B; N43BB82; N43BB83;
N43BB62; N43BB63; DH-IPC-HFW3549EP-AS-LED; DH-IPC-HFW3549EN-AS-LED;
IPC-HFW3549EP-AS-LED; IPC-HFW3549EN-AS-LED; DH-IPC-HFW3549E-AS-LED;
IPC-HFW3549E-AS-LED; IPC-HFW3549E-AS-LED-0280B;
IPC-HFW3549E-AS-LED-0360B
DH-IPC-HFW2541E-S; IPC-HFW2541E-S; DH-IPC-HFW2541E-S-0280B; DH-IPC-
HFW2541E-S-0360B; IPC-HFW2541E-S-0280B; IPC-HFW2541E-S-0360B

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BUREAU VERITAS ADT (Shanghai)
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Version 12/2015 6.9

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ATTESTATION
Number

DHQA-19JY0824VTSHPB-A2-V

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BUREAU VERITAS ADT (Shanghai)
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Fax: +86 21 6195 0001
Email: bvadtshmail@cn.bureauveritas.com



VERIFICATION OF COMPLIANCE



No.: GPSD KSES2104000128ATA01

Applicant: ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.
No.1199, Bin'an Road, Binjiang District, Hangzhou, Zhejiang, P.R. China

Manufacturer: ZHEJIANG DAHUA VISION TECHNOLOGY CO., LTD.
No.1199, Bin'an Road, Binjiang District, Hangzhou, Zhejiang, P.R. China

Product Name: NETWORK VIDEO RECORDER

Model No.: DHI-NVR4216-4KS2/L, DHI-NVR4208-4KS2/L, DHI-NVR4204-4KS2/L,
NVR4216-4KS2/L, NVR4208-4KS2/L, NVR4204-4KS2/L,
DH-NVR4216-4KS2/L, DH-NVR4208-4KS2/L, DH-NVR4204-4KS2/L,
NVR42xx-4KSy/L, DH-NVR42xx-4KSy/L, DHI-NVR42xx-4KSy/L,
DHI-NVR42xx-4K/L
(The "xx" can be 04,08,16 and 32 denote different software configuration; "y" can be 2,3,4 and 5 denote different software version)

Trade Mark:  or 

Rating: 12 V d. c.; 4 A

Protection against Electric Shock: Class III

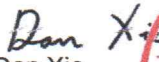
Additional Information (if any): This verification replaces with KSES210400012801ATC dated on 2021-06-11.

Sufficient samples of the product have been tested and found to be in conformity with

Test Standard: EN 62368-1:2014+A11:2017
as shown in the

Test Report Number(s): KSES210400012802

This Verification of GPSD Compliance has been granted to the applicant based on the results of tests performed by Laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on sample of the above-mentioned product in accordance with the provisions of the relevant specific standards and the General Product Safety Directive 2001/95/EC.


Dan Xie

Laboratory Technical Manager

SGS-CSTC



2022-05-11

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Member of SGS Group (Société Générale de Surveillance)



VERIFICATION OF EMC COMPLIANCE

Verification No.: SHEM220800636801ATC
Applicant: Zhejiang Dahua Vision Technology Co., Ltd.
Address of Applicant: No.1199, Bin'an Road, Binjiang District, Hangzhou, P.R. China
Product Description: NETWORK VIDEO RECORDER
Model No.: DHI-NVR4216-4KS2/L, DHI-NVR4208-4KS2/L, DHI-NVR4204-4KS2/L, NVR4216-4KS2/L, NVR4208-4KS2/L, NVR4204-4KS2/L, DH-NVR4216-4KS2/L, DH-NVR4208-4KS2/L, DH-NVR4204-4KS2/L, NVR42xx-4KSy/L, DH-NVR42xx-4KSy/L, DHI-NVR42xx-4KSy/L, DHI-NVR42xx-4K/L (The "xx" can be 04,08,16 and 32 denote different software configuration; "y" can be 2,3,4 and 5 denote different software version)
Sufficient samples of the product have been tested and found to be in conformity with
Test Standards: EN 55032:2015+A1:2020
EN IEC 61000-3-2: 2019+A1:2021
EN 61000-3-3: 2013+A1:2019+A2:2021
EN 55035: 2017+A11:2020
EN 50130-4:2011 +A1:2014
As shown in the
Test Report Number(s): SHEM220800636801

This verification of EMC Compliance has been granted to the applicant based on the results of the tests, performed by laboratory of SGS-CSTC Standards Technical Services Co., Ltd. on the sample of the above-mentioned product in accordance with the provisions of the relevant specific standards under Directive 2014/30/EU. The CE mark as shown below can be used, under the responsibility of the manufacturer, after completion of an EU Declaration of Conformity and compliance with all relevant EU Directives.

Parlam Zhan

Parlam Zhan
Laboratory Manager



Date: 2022-08-16

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CERTIFICATE

MANAGEMENT SYSTEM CERTIFICATION BODY
«CONFORMITY ASSESSMENT BODY «PROMSTANDART», LLC

certifies that

FIXNET

"CABLE PLANT "FIXNET" LLC

04136, Ukraine, Kyiv, 1-3 Pivnichno-Syretska Str.,
(production address: Poltava, Tovarny lane, building 2b)
EDRPOU code 39743416

has established and applies
the quality management system for:

**development, production and sale
of cables and wires**

An audit was performed, Report No 2021/050-21.1.1
Proof has been furnished that the requirements according to

ISO 9001:2015

«Quality management systems. Requirements»

are fulfilled.

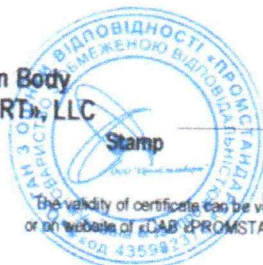
The validity of this certificate is subject to periodical audit.

Certificate Registration No	№ UA.QMS.00057-21
Valid from	September 27, 2021
Valid until	September 26, 2024



80156
DSTU EN ISO/IEC 17021-1

Director of Certification Body
«CAB «PROMSTANDART», LLC



(Handwritten signature)
(signature)

Serhii DUBROVSKYI

The validity of certificate can be verified by telephone: (056) 742-82-39
or on website of «CAB «PROMSTANDART», LLC: prom-standart.com.ua

CC 210271

UNIMARK OCAL2.0-4OF/8OF (Suspended self-supporting cables)

TS U 27.3-39743416:001:2017

Application

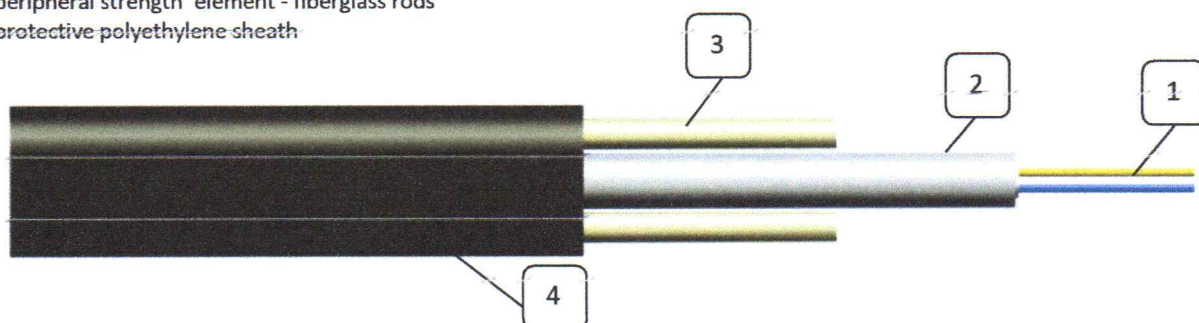
- building broadband access networks
- designed for suspension and operation on the supports of overhead communication lines, urban electric transport, overhead power lines and railway overhead lines under conditions of exposure to loads from wind, ice or their combinations

Benefits

- high performance characteristics
- ease of cutting and cable installation

Build structure

- 1 - optical fibers, loosely laid in tubes - optical modules filled with thixotropic hydrophobic gel
- 2 - optical module
- 3 - peripheral strength element - fiberglass rods
- 4 - protective polyethylene sheath



Transmission	
Attenuation coefficient at reference wavelengths, dB / km: - 1310 nm - 1550 nm	0.36 / 0.22
Chromatic dispersion coefficient at reference wavelengths, ps / nm km: - 1310 nm - 1550 nm	3.5 / 18
Optical fiber type according to ITU-T G. 652 D/657 A1	Corning®SMF-28®Ultra Fiber
The number of optical fiber in the cable, pcs.	4/8
Cable diameter, mm	7,0 ± 0,3
Cable weight, kg / km	35
Maximum tensile force (short-term), kN	2,0
Minimum bending radius, mm	20 x cable diameters
Permissible crushing force, no more, N / mm	500
Operating temperature range, ° C	- 40 ° C - + 60 ° C
Storage temperature range, ° C	- 20 ° C - + 60 ° C
Installation temperature range, ° C	- 10 ° C - + 60 ° C
Construction length, km	4.00 (or on demand)

Sheath marking: UNIMARK OCAL2.0-4



Optical fiber color identification

1	Red	2	Green	3	Blue	4	Yellow
5	White	6	Gray	7	Brown	8	Violet
9	Orange	10	Black	11	Pink	12	Aqua

- Colors available according to customer's order

-

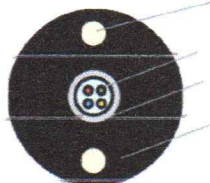
1. Волоконно-оптический кабель марки

UNIMARK OCA2.0U-4
UNIMARK OCA2.0U-8

Применение

- построения сетей широкополосного доступа;
- предназначен для подвески и эксплуатации на опорах воздушных линий связи, городского электротранспорта, воздушных линиях электропередачи и контактной сети железных дорог в условиях воздействия нагрузок от ветра, гололёда или их комбинаций.

Структура построения



- 1 – Полимерные стеклонаполненные стержни
- 2 – Периферийный силовой элемент – стеклонити
- 3 – Одномодовые оптические волокна в соответствии с ПУ-Т G 652 D, свободно уложенные в центральной трубке, заполненной тиксотропным гидрофобным гелем
- 4 – Оболочка из полиэтилена высокой плотности

Технико-эксплуатационные характеристики

Количество ОВ., шт.	4,8
Диаметр кабеля, мм	7,2 ± 0,3
Масса кабеля, кг/км	36
Максимальное растягивающее усилие (кратковременное), кН	2,0
Минимальный радиус изгиба, мм	20 x диаметров кабеля
Допустимое раздавливающее усилие, не более, Н/мм	500
Диапазон рабочих температур, °С	- 40°С - +60°С
Диапазон температуры хранения, °С	- 20°С - +60°С
Диапазон температуры монтажа, °С	- 10°С - +60°С



DECLARATION OF CONFORMITY

We, **SIA Mikrotikls**
Brivibas gatve 214i
Riga, LV-1039
Latvia

hereby declare that the products listed below,

Description: **CloudRouterSwitch**
Product code: **CRS328-4C-20S-4S+RM**

to which this declaration relates, are in conformity with the essential requirements of the Directive 2014/30/EU

ANNEX 1 (a): **EN 55032:2015+AC:2017**

ANNEX 1 (b): **EN 55024:2011 + A1:2015**
EN 55035:2017

Electromagnetic disturbances and electromagnetic immunity verification test report No. LEITC-TR-17-33 from Latvian Electronic Equipment Testing Center, Azenes 12-4, LV-1048, Riga, Latvia.

Riga, 1th June 2018

Edmunds Zvegincevs,

engineer

(signature)