

(1) EU-Type-Examination Certificate

- (2) Equipment and protective systems intended for use in potentially explosive atmospheres, **Directive 2014/34/EU**



- (3) **Certificate Number** TÜV CY 24 ATEX 0207053 X
 (4) for the equipment: CCTV Camera with Integrated LED Light, Flood Light Processing Unit (IS Barrier)
 (5) of the manufacturer: **Unibose Technology Private Limited**
 (6) Address: No.33, SIDCO industrial estate, CMDA Phase-2, Maraimalai Nagar, Chengalpattu- 603209, Tamilnadu
 Order number: 0207053
 Date of issue: 2024-08-12

- (7) The design of this equipment or protective system and any acceptable variation thereto are specified in the schedule to this EU-Type-Examination Certificate and the documents therein referred to.
 (8) TÜV CYPRUS Ltd, notified body No. 2261 in accordance with Article 17 of the Council Directive of 2014/34/EU of February 26, 2014, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres given in Annex II to the Directive. The examination and test results are recorded in the confidential report No. 24 0207053.

- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN IEC 60079-0:2018 **EN 60079-11:2012**

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.
 (11) This EU-Type-Examination Certificate relates only to the design, examination and tests of the specified equipment in accordance to the Directive 2014/34/EU. Further requirements of the Directive apply to the manufacturing process and supply of this equipment which are not covered by this certificate.
 (12) The marking of the equipment or protective system must include the following:

 CCTV Camera with Integrated LED Light and Flood Light Processing Unit (IS Barrier)
II 1 G Ex ia IIC T4 Ga **II (1) G [Ex ia Ga] IIC**
Tamb: -20°C to +60°C

TÜV CYPRUS Ltd (TUV NORD Group),
 The head of the notified body,



Accredited by CYS-CYSAB
 Certificate No. C 004-2

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(13) SCHEDULE

(14) EU-Type-Examination Certificate No. TÜV CY 24 ATEX 0207053 X

(15) Description of equipment

The CCTV Camera with Integrated LED & Flood light is an electrical equipment which is used for monitoring & illuminating the Zone 0 hazardous environment. The CCTV camera with integrated LED light and Flood light are placed inside an IP68 SS316 enclosure.

The CCTV camera with integrated LED consists of an analogic video camera system based on PAL video format and a LED light for illumination. Flood light consist of a LED light for enhanced illumination. CCTV camera with integrated LED light and Flood light can be installed in Hazardous area, Zone 0, and connected to a processing unit placed in the safe area via cable and connectors. Cables are available at different length, from 25m to 100m, depending on the field requirement.

The Processing Unit, installed in safe area, provide the power supply to all the system and contains the dedicated intrinsically safe barriers (IS Barrier) for camera & flood light power supply and output of video signals (PAL signal).

The cables from I.S. barrier unit are connected to the camera/flood light either directly or via a dedicated 12/24 pins Slip Ring. The Slip Ring is placed in IP65 SS316 enclosure.

The system is suitable to be installed in indoor/outdoor applications with any moving/Fixed assemblies.

Type key:

CCTV Camera with Integrated LED Light and Flood Light

SMPS Processing Unit with I.S. Barriers

Technical data:

Processing Unit (IS Barrier) Power Supply: 230VAC (Safe Area)

Intrinsically Safe Parameters:

I.S. Barrier for CCTV:

$U_o=5.355V$, $I_o=1.4424A$, $P_o=1.931W$, $C_o=100\mu F$, $L_o=500\mu H$

I.S. Barrier for Flood Light:

$U_o=13.65V$, $I_o=0.9192A$, $P_o=3.136W$, $C_o=0.79\mu F$, $L_o=400\mu H$

CCTV camera with Integrated LED light:

$U_i=5.5V$, $I_i=3.3A$, $P_i=4.5375W$, $C_i=62.74\mu F$, $L_i=69.41\mu H$

Flood Light:

$U_i=13.7V$, $I_i=1.4A$, $P_i=4.795W$, $C_i=0.674\mu F$, $L_i=52\mu H$

Allowable ambient temperature range: $-20^{\circ}C$ to $+60^{\circ}C$

Warning Marking:

Do Not Open when Explosive Atmosphere is Present

(16) Test documents are listed in the test report No. 24 0207053

(17) Special conditions for safe use

1. For proper installation see the instruction manual
2. The Processing Unit (IS Barrier) shall be installed in safe area and in compliance with EN 60079-14 shall provide the power supply to the intrinsically safe barriers through power supplies compliant with EN IEC 60950 or technically equivalent standard.

(18) Essential Health and Safety Requirements

This EU Type certificate covers the Essential Health and Safety Requirements related to the Directive 2014/34/EU.