IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEx ICS 24.0032X**

Certificate history:

Status: **Current**

Issue No: 0

Date of Issue: 2025-01-31

Applicant: **Nautitech Mining Systems Pty Limited**
Unit 3/9 Packard Ave
Castle Hills NSW 2154
Australia

Equipment: **IS HD and Thermal Camera, IS Profiler -- HD: type 12501, Thermal: type 12502, Profiler: type 12503**

Optional accessory:

Type of Protection: **Equipment protection by intrinsic safety "i"**

Marking: Ex ia I Ma

-20°C to +60°C

Approved for issue on behalf of the IECEx Certification Body: **Francoius du Toit**

Position: **Certification Authority**

Signature: (for printed version)

Date: (for printed version) 2025-01-31

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.

Certificate issued by:

South Africa Mining and Surface Certification (MASC)
45 Jurg Street
Lelyta Park Unit 5
Hennopspark Ext 87, Centurion, 0157, Gauteng
South Africa

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Certificate No.: **IECEx ICS 24.0032X**

Date of issue: 2025-01-31 Issue No: 0

Manufacturer: **Nautitech Mining Systems Pty Limited**
Unit 3/9 Packard Ave
Castle Hills NSW 2154
Australia

Manufacturing locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements.This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :
The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-11:2023 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:7.0

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:
A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

ZA/ICS/ExTR24.0034/00

Quality Assessment Report:

AU/MSC/QAR21.0001/02

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The IS HD and Thermal Camera (types 12501 and 12502) are intrinsically safe imaging devices. These cameras can connect to other intrinsically safe equipment using the M23 or a Nautitech custom metal connector, which support both power and network connections.

The IS Profiler (type 12503) is an intrinsically safe data logging device that can also connect to other intrinsically safe equipment through the M23 or a Nautitech custom metal connector , which facilitates power, network, and CAN communication.

Both the Camera and Profiler can be operated through their respective interfaces.

The equipment enclosure is made of stainless steel and features a removable stainless steel lens cover. It includes an optional specialized antenna for Wi-Fi connection, a glass lens (germanium glass for the thermal camera and solid lid for profiler), a metal connector as well as an optional adjustable stainless steel gimbal mounting facility.
The camera can optionally be mounted using side or bottom threaded holes..

The safety parameters for the applicable interfaces are listed below:

Thermal and HD Camera Power				Profiler Power		
Ui	=	14V		Ui	=	9V
Ci	=	2.31µF		Ci	=	2.31µF
Li	=	0		Li	=	0
Thermal and HD Cameras (Ethernet 1 or 2) Profiler (Ethernet 1)				Profiler only		
Ui	=	14V		Ui	=	9V
Ci	=	290.4nF		Pi	=	3.15W
Li	=	0		Ci	=	8.75µF
				Li	=	0

SPECIFIC CONDITIONS OF USE: YES as shown below:
The unit is subject to an IEC 60079-25 IS systems approval.