

**[1] EC-TYPE EXAMINATION CERTIFICATE**

[2] Equipment or Protected System Intended for use  
in Potentially explosive atmospheres  
Directive 94/9/EC

[3] EC-Type Examination Certificate Number: Nemko 02ATEX255

[4] Equipment or Protective System: Fire Simulator

[5] Applicant:

[6] Address:

[5] Manufacturer:

[6] Address:

Spectrex Inc.

Peckman Industrial Park

218 Little Falls Road

Cedar Grove, NJ 07009

USA

[7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.

[8] Nemko AS, notified body number 0470 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, 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 confidential report no. 200215101

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

CENELEC EN 50014:1997 + A1:1999 + A2:1999 and CENELEC EN 50018:2000

[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 EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

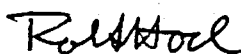
[12] The marking of the equipment or protective system shall include the following :



II 2 G

EEx d IIB T5

Oslo, 2002-08-08



Rolf Hoel  
Section Manager



Asgeir Holt  
Project Engineer

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Enterprise number:  
NO 974404532

**[13] Schedule****[14] EC-TYPE EXAMINATION CERTIFICATE No Nemko 02ATEX255**

- [15] Description of Equipment or Protective System**  
This Certificate covers Fire Simulator IR3 and Fire Simulator UV/IR.

**Type Designation**

SharpEye IR<sup>3</sup> Long Range Fire Simulator 20/20-310  
SharpEye UV/IR Long Range Fire Simulator 20/20-311

**Data**

Max2,5A Max 8V DC Ta= -20 to +50°C

**Ingress Protection Code**

IP67 according to EN 60529

- [16] Report No.: 200215101**

**Descriptive Documents**

| Name/Title                 | Drawing No. | Rev. | Date    | Sheets |
|----------------------------|-------------|------|---------|--------|
| Simulator list of drawings | 2-7103      |      | 27-6-02 | 2      |

**Routine Test**

The routine overpressure test shall be carried out in accordance with the requirements of clause 15 in EN 50018.  
The reference pressure is 8,9 bar, which leads to an overpressure test of 13,35 bar.

- [17] Special Conditions for Safe Use**  
None
- [18] Essential Health and Safety Requirements**  
See item 9

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**SUPPLEMENT 1 TO EC-TYPE EXAMINATION CERTIFICATE****[14] EC-TYPE EXAMINATION CERTIFICATE No Nemko 02ATEX255****[15] Description of Equipment or Protective System**

This Certificate is extended to include two alternative models of Fire Simulator.  
Minor changes of components and new updating of drawings listed in Descriptive Documents.

**Type Designation new models**

20/20-312, 20/20-313

**Technical Data**

Max 2.5A, Max 8V DC, Ta= -20 to +50°C

**Ingress Protection Code**

IP67 according to EN 60529

**[16] Report No. 61264****Descriptive Documents**

| Name/Title                      | Drawing No. | Rev. | Date     | Sheets |
|---------------------------------|-------------|------|----------|--------|
| H2 Fire Simulator Assy          | 313502      | -    | 28-12-05 | 1      |
| Label                           | 313566      | -    | 28-12-05 | 1      |
| Top Cover Assy                  | 313526      | -    | 27-12-05 | 1      |
| Window Coating                  | 310086      | A    | 30-10-05 | 1      |
| Single IR Fire Simulator Assy   | 312502      | -    | 27-12-05 | 1      |
| Label                           | 312516      | A    | 04-01-06 | 1      |
| Bottom Cover Assy               | 312537      | -    | 27-12-05 | 1      |
| Single IR Electrical Scheme     | 312018      | -    | 27-12-05 | 1      |
| Single P.C. Board Assy          | 312019      | -    | 27-12-05 | 1      |
| Modified Telescope              | 310180      | D    | 27-12-05 | 1      |
| UV-IR Simulator P.C. Board Assy | 311019      | B    | 27-12-05 | 1      |
| IR3 Simulator Board             | 310019      | B    | 27-12-05 | 1      |
| Window Coating                  | 310076      | A    | 27-12-05 | 1      |
| Rail                            | 310183      | B    | 27-12-05 | 1      |

**Routine Test**

The routine overpressure test shall be carried out in accordance with the requirements of clause 15 in EN 50018.  
The reference pressure is 8,9 bar.

**[17] Special Conditions for Safe Use**

None

**[18] Essential Health and Safety Requirements**

See item 9

Oslo, 2006-02-28

**Rolf Hoel****Certification Department***This certificate may only be reproduced in its entirety and without any change, schedule included.*