FLIR Si2x (ATEX & IECEx) FAQs

What has changed with the updated FLIR Si2x?
The new FLIR Si2x offers the same acoustic performance and features as previous versions, just with new part numbers. The part numbers are intended to control the changes required during manufacturing and assembly that enabled our successful completion of IECEx hazardous location testing.

Why does the new FLIR Si2x have a new part number?
New part numbers ensure that we do not ship an 'ATEX-only' camera to a customer requiring IECEx approval. We will discontinue the outgoing part numbers, superseding the 'ATEX Only' version of the Si2x with the combined 'ATEX & IECEx' version.

There is no price difference between the outgoing Si2x models and the new models.

How is IECEx different to ATEX?
ATEX originates from European laws while IECEx is an international standard that is globally recognised, and part of the IEC (International Electrotechnical Commission).
Both standards have been technically identical since 2005; however, ATEX standards follow a 'deemed to comply' method whereas the IECEx requires strict adherence to standards.

In terms of zoning, ATEX categorisations are '1, 2, 3' while IECEx protection levels are 'a, b, c'. They are otherwise identical

If IECEx certification is achieved, then it can be applied for ATEX certification; however, it is not reciprocal. An ATEX certification is not sufficient to apply for an IECEx certification.

For Zone 2 and 22, ATEX allow self-certification. IECEx, in contrast, requires a CoC issued by a 3rd party Ex Certification Body.

What countries use ATEX?
ATEX is a set of safety laws within the European Union, therefore all countries within the European Union must use these standards. Even

outside of the European Union, the UK uphold the same ATEX criteria under the DSEAR regulations.

Additional countries that chose to follow the ATEX standards include: Norway, Iceland, Switzerland, Turkey, and Liechtenstein.

What countries use IECEx?

IEC standards are used in Africa, Asia, South America, and North America, with partial coverage in the USA depending on the hazardous location classifications using IECEx or Class / Division systems.

So what does this mean for the FLIR Si2x?

The addition of an IECEx approval greatly expands the market available to the FLIR Si2x. While a few sales outside of Europe were possible with ATEX approval, the market reach for the Si2x remained concentrated in Europe. Our addressable market now encompasses most of the AMER and APAC regions as well as Europe, creating the potential for more sales.

America specifically uses a mixture of ratings for hazardous areas: either Classes and Divisions or IECEx ratings. Therefore, the Si2x IECEx certification will enable sales across a significant portion of the North American continent. If the Class and Division system is in use, then neither ATEX nor IECEx approvals will suffice.

Which certification should I consider or provide ATEX or IECEx?

The Si2x device is certified for both ATEX and IECEx compliance. The applicable certification depends on the region where the device is being used. Typically:

- ATEX is required within the European Union.
- IECEx is recognized internationally.

However, the final decision should align with the company's internal compliance policies and guidelines, they will specify the preferred standard for operations.

Where can I find the ATEX and IECEx certificates for the Si2x?

The certificates are available for download on the Si2x Customer Help Page.

https://support.flir.com/resources/gq2z/

Currently, only the ATEX certificate is available. The IECEx certificate will be added as soon as it is issued.

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