

ARSKAN Codec

PRODUCT SHEET



ARSKAN Codec is a patented technology that reduces the size of massive 3D meshes without loss of information. This technological brick allows compression and progressive decompression of the mesh at any level of detail, to ensure smooth visualization.

Accessible in SDK and from our other products.

ARSKAN Codec features

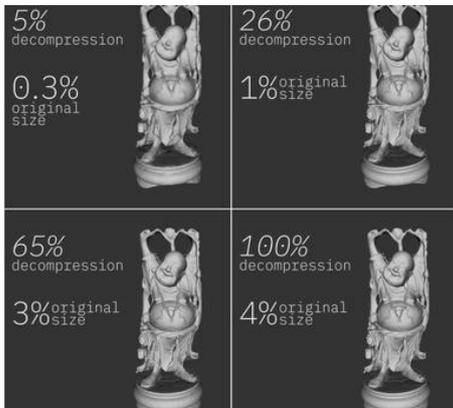
Easy access to 3D



ARSKAN Codec is a new generation technology that allows:

- to reduce the size of 3D meshes without loss of information (except for initial quantification).
- to transfer them progressively and securely over the web.
- to adapt the visualization to the client terminal (phone, tablet, smartphone), at any level of detail.

Compress - decompress



Thanks to ARSKAN Codec, files are compressed and decompressed progressively: their size is reduced.

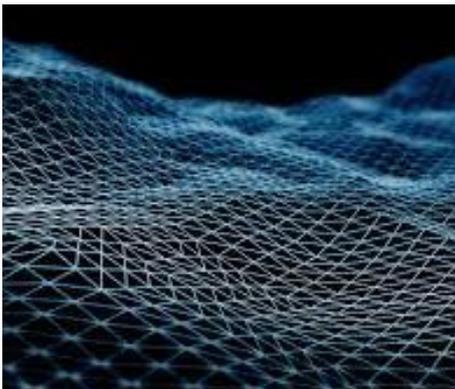
ARSKAN Codec technology compresses the 3D mesh by integrating its topology.

This process gives ARSKAN its progressiveness and high performance.

Figure 1: The decompression of the 3D model explained steps by steps.

At 100% decompression, the file weighs 4% of its initial weight.

Patented technology



The ARSKAN Codec technology is based on two scientific research methods, and is protected by two patents:

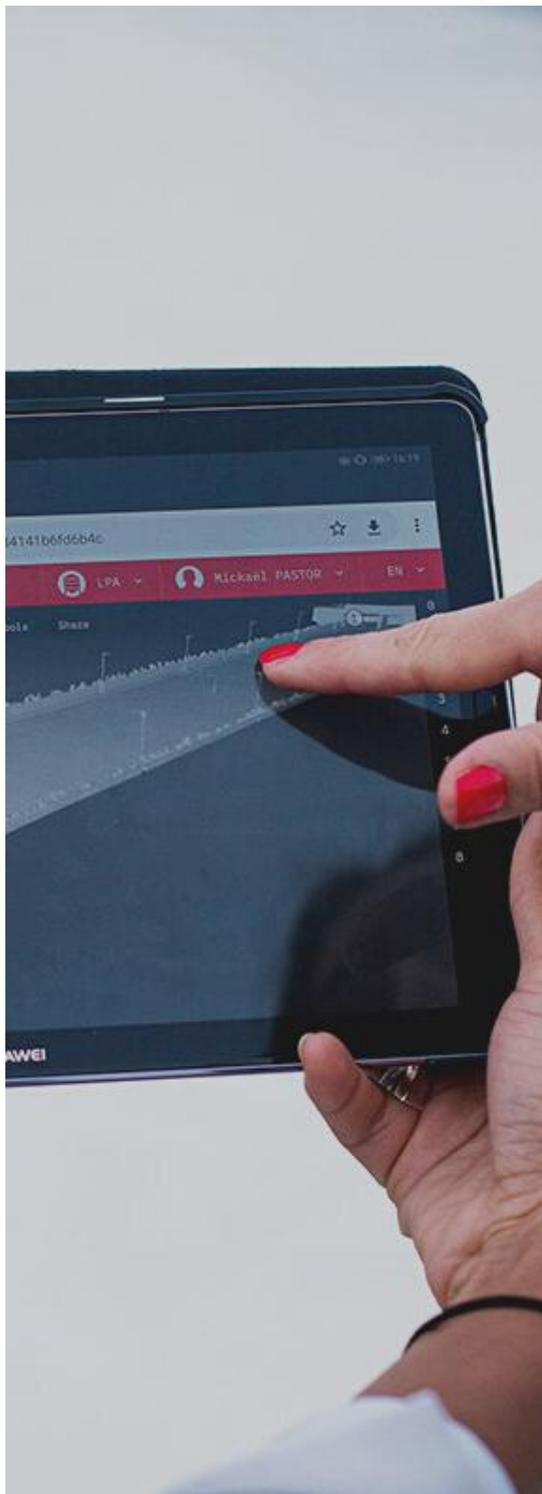
- The first one deals with geometric compression;
- The second concerns the progressive transmission of 3D data from one terminal to another.

The patents cover the EU, UK, US and Japan.



ARSKAN Codec

The Codec is available in several products: Command-line interface (CLI) and SDK ;
Via our API, via the web viewer API or the web platform API; in SaaS via our ARSKAN SiloData web platform.



Technological specifications

Accepted file formats :

- .OBJ (with MTL and textures)
- Other possible formats (on request)

Output format

- .p3dw

Planned specifications for the CLI

Accepted files format: .OBJ

Planned specifications for the SDK

The ARSKAN SDK package provides libraries, tools and documentation for mesh compression and decompression.

SDK Contents

Native ARSKAN Library :

- Ubuntu and Windows platform (64 bits)
- dynamic library
- API for the C++ language
- documentation with example of integration of the Codec API.

Getting started

Request for access: contact us to consult the availability calendar (contact@arskan.com).

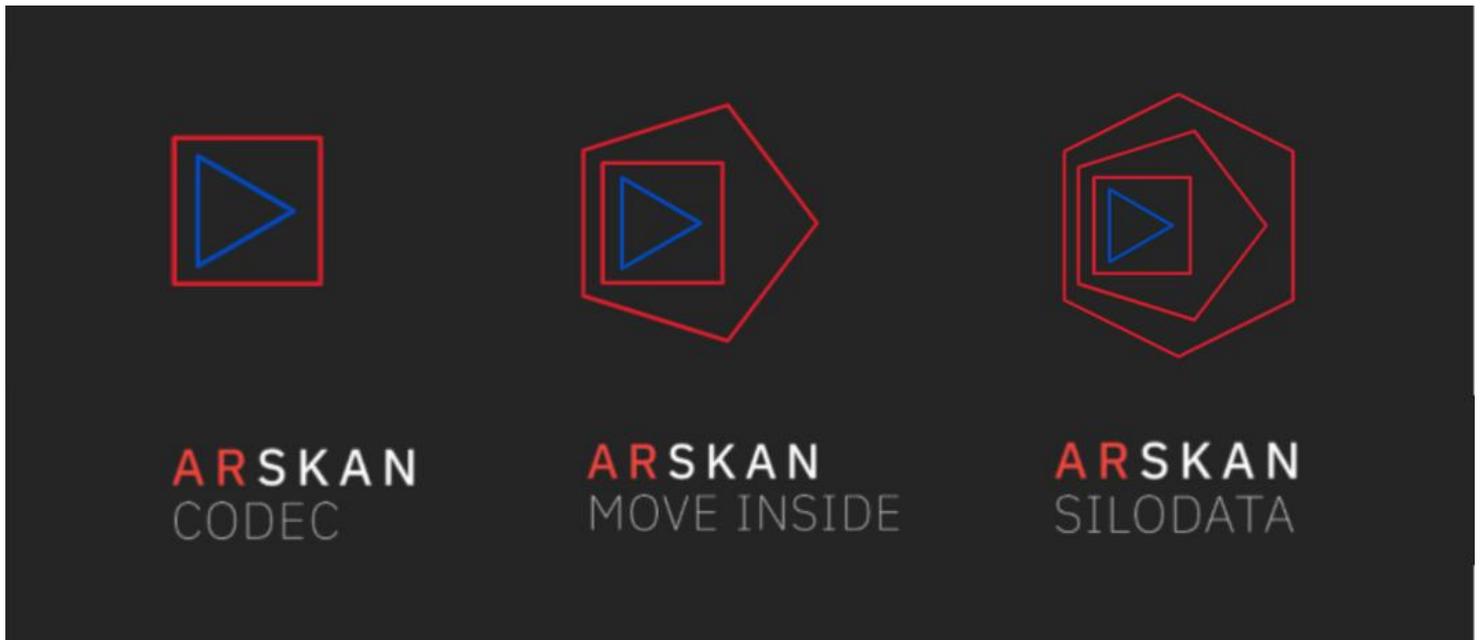
In the meantime, you can test the performance of the Codec on our SaaS platform (silodata.arskan.com) or in CLI.

[Presentation of the others ARSKAN solutions](#)



Presentation of the others ARSKAN solutions

ARSKAN is a provider of technological solutions for the visualization, management and sharing of massive 3D data on the web, on the go.



ARSKAN SiloData

The ARSKAN SiloData professional platform is a complete set of technological solutions for visualization, management and sharing of 3D model from any device, on the web, on the go, without constraints. ARSKAN SiloData integrates two technological solutions: a viewer (MoveInside) and a compressor (Codec).

For more information: refer to the detailed ARSKAN SiloData product sheet (ref. AKN PTF V1-OCT-20).

ARSKAN MoveInside

From our universal and plugin-free viewer, you can easily visualize, manipulate and share your large 3D objects on the web, from a computer, tablet or smartphone, no matter how large your data is, without constraints. Our viewer integrates ARSKAN Codec.

For more information: refer to the detailed ARSKAN MoveInside product sheet (ref. AKN VWR V1-OCT-20).

