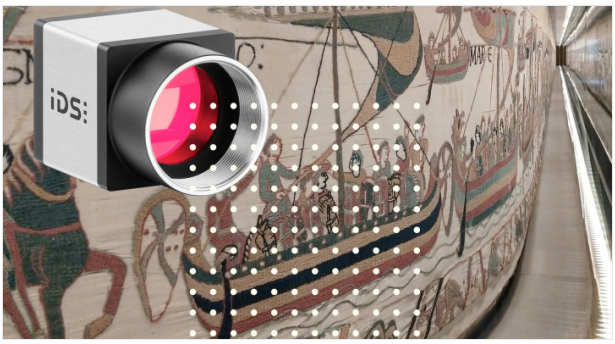
# IDS case study: Historical textiles in focus

## New approaches to researching damage-related climate on textile artefacts with image processing

Preventive conservation plays an important role in the preservation of art and cultural assets. In order to preserve their condition for as long as possible, it is essential to slow down ageing processes and evaluate factors that alter materials. Cultural heritage science and engineering methods for understanding material behaviour require an interdisciplinary approach. Textiles are among the most sensitive art and cultural heritage artwork. In the course of their production and handling, their presentation and storage, they are often exposed to influences that can have a damaging effect on their material.

The French start-up company S-MA-C-H has studied the "Bayeux Tapestry" as part of a research project and, with the help of IDS cameras, has developed a system that provides valuable insights into the optimal conservation and presentation of this sensitive and extraordinary artefact.



The system is composed of temperature and humidity sensors as well as a force sensor to record the gravity pressure. The heart and brain is a non-contact 2D full-field Digital Image Correlation (DIC), consisting of a → USB 3 uEye CP and digital image correlation software developed by the French Pprime Institute.

→ Read the whole application report