

## ***Remote Assessment***

**Technical Background:** In industrial radiography, film imaging method, because darkroom processing is processed in chemicals, acid and alkali residues will lead to film yellowing, adhesion and indistinguishability. Special equipment security law requires that image storage is lifelong. As long as the equipment is in use the film needs to be preserved. A large number of film storage requires a large amount of storage space. The environmental temperature and humidity requirements of the film also make the cost of preservation higher and higher. Electronic scanning makes it possible to digitalize and permanently preserve the negatives. The storage space of the negatives after electronic scanning is greatly reduced, and hundreds of electronic scanning negatives can be stored with only a large amount of solid-state hard disk. However, there is no consultation environment and platform for the environment of preservation, safety and the consultation of difficult negatives in industrial testing. With the extensive application of digital radiography, more and more detections make the image storage, upload, security, consultation, storage environment and how to make the digital radiography efficient and fast. Make the inspectors on the spot only take photos, upload the data in the background, evaluate the personnel online and consult the difficult problems remotely. With the wide application of phased array, TOFD ultrasonic testing and electromagnetic eddy current testing, the scope of digital imaging testing industry is also increasing. Digital image storage, evaluation, consultation and long-distance transmission will grow rapidly at the pyramid level, which is a difficult problem to be solved urgently since the rise of digital imaging, and also a difficult problem to be faced in the promotion of digital imaging.

- Technical points:**
- 1) Defect database: diagnostic criteria and defect identification;
  - 2) Comparing the results of previous studies to determine the extensibility of hazards ;
  - 3) Remote evaluation: collection, upload and separation to improve efficiency;
  - 4) consultation platform for difficult problems;
  - 5) Take into account the pain points of industrial shadow industry.
  - 6) Secure Storage Platform

We have launched four cloud-rich products: shadow storage, cloud HTCS, regional film center, remote film reviews, and publishing platform. Industrial cloud products will realize film interconnection and interoperability, shadow information sharing, shadow storage, and enhance the level of shadow forging diagnosis platform products C product project products of grass-roots special inspection institutes

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