BUSINESS

We Make,

· Development and supply of remote collaboration, maintenance support, and training solutions for defense and industry sectors based on XR-technology.
· Development and supply of Integrated Product Support (IPS) elements in defense sector.

XR-based solution development

Integrated Product Support(IPS) elements development

ABOUT XRQS

XRQS XR solution made by QS

eXtended Reality solution made by QS

· XRQS solution suite can streamline the operation, maintenance, education and training in the defense and industrial markets
· AI-based AR recognition and visual matching solutions are under development and we are doing our best to develop various solutions, which can improve customer experience in the future.

XRQS-Collaboration
(XR-based remote collaboration solution)

This solution can solve problems through XR-based technology with manufacturer experts anytime, anywhere whenever you need help.

XRQS-Maintenance
(XR-based maintenance support solution)

This solution provides information more intuitively and efficiently by implementing contents on mobile devices by applying XR-based technology and 3D modeling to complement the existing booklet-type technical manual and IETM(Interactive Electronic Technical Manual).

XRQS-Training
(XR-based training solution)

This solution enhances the educational experience by applying XR technology, various haptic equipment, and simulators for trainees to experience similar to the real experience

---

QS Co., Ltd.
The Best Quality & Optimum Solution

The Best Quality & Optimum Solution, QS

Headquarter(Gumi-Si)
202, Inno-plaza, GERI, 17, Cheomdangieop1-ro, Sandong-eup, Gumi-si, Gyeongsangbuk-do
Tel. +82-54-462-3627 **Fax.** +82-54-462-3629
E-mail. toqs@qs2008.co.kr

Seoul branch
507, SK TwinTower, 119 Gasan digital 1-ro, Geumcheon-gu, Seoul
Tel. +82-0-6949-3627
E-mail. xrqs@qs2008.co.kr

Changwon branch
201, Changwon Smart Innovation Support Center, 52 Charyong-ro 48beon-gil, Uichang-gu, Changwon-si, Gyeongsangnam-do
Tel. +82-55-295-3627 **Fax.** +82-55-294-3627
E-mail. qsips@qs2008.co.kr

XRQS
eXtended Reality solution made by QS

XRQS-Collaboration (XR-based remote collaboration solution)
XRQS-Maintenance (XR-based maintenance support solution)
XRQS-Training (XR-based training solution)

QS Co., Ltd.
The Best Quality & Optimum Solution

ABOUT QS

An innovative company that delivers the best quality and optimal solutions

Company Name	QS Co., Ltd.	CEO	Young-ho, Yun
Date of Establishment	Nov. 1, 2008	Client	Hanwha Systems/Hyundai Wia/ LG CNS, etc.
Business Area	XR(eXtended Reality)-based system solution and integrated product support(IPS) elements development		

QS Co., Ltd. was established in 2008 and has grown based on the defense business for 14 years. Our solutions support efficient operation and maintenance of equipment by applying immersive contents with extended reality (XR) and artificial intelligence (AI) technology. We promise to provide the best outcome by continuously developing XR and AI technologies that anyone can easily adapt to and efficiently cope with the rapidly changing world.

CONTACT

Headquarter(Gumi-Si)
Sales, Finance & Accounting, Strategic Planning, Advanced Technology Research Center
Tel. +82-54-462-3627 **E-mail.** toqs@qs2008.co.kr

Seoul branch
XR-based system solution
XR core technology R&D Center
Tel. +82-2-6949-3627 **E-mail.** xrqs@qs2008.co.kr

Changwon branch
Integrated product support(IPS) elements development
Tel. +82-55-295-3627 **E-mail.** qsips@qs2008.co.kr

Do you have an inquiry or request for our solutions?
We are waiting for your inquiry for our solution. Please feel free to contact us!

Why XR Solutions?
Lower costs and Increase Efficiency.

As-is		To-be

As-is

Manpower is dispatched unconditionally regardless of work difficulty in response to requests, resulting in a waste of money and manpower.

The large volume and bulky booklet-type technical manual makes it difficult to find the contents, difficult to store, and reduces efficiency when using. The PC-type IETM is outdated and not utilized.

Lower training efficiency due to training materials focused on unilateral information delivery, but higher budget for the cost of equipment/systems.

XRQS-Collaboration
XR-based remote collaboration solution

XRQS-Maintenance
XR-based maintenance support solution

XRQS-Training
XR-based training solution

To-be

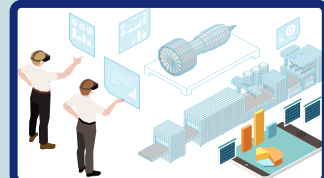Instantly provide remote support from experts anytime, anywhere at reasonable cost (cost savings)

Increase work efficiency and productivity by checking information intuitively by using XR-based technical manuals (work guides, etc.)

Training can be conducted through interaction in a virtual environment, and training effects are increased because training is possible by virtual implementation of situations that are difficult to implement in real situations.
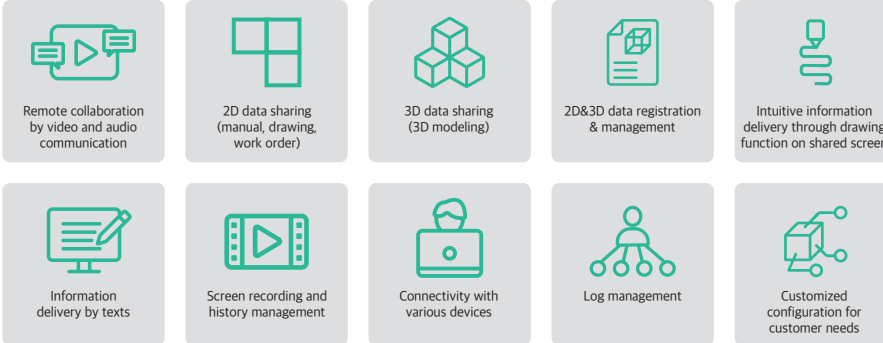

XRQS Solution 1

XRQS-Collaboration
XR-based remote collaboration solution

A solution that solves problems with XR-based technology by connecting with manufacturer experts anytime, anywhere whenever you need help.

XRQS-Collaboration, an XR-based remote collaboration solution, is a solution for the remote support using mobile devices and smart glasses. It is possible to remotely access the manufacturer and receive technical support from experts immediately when occurs a situation that is difficult to take action for in the place where the equipment or facility is installed.

Key Features

- Remote collaboration by video and audio communication
- 2D data sharing (manual, drawing, work order)
- 3D data sharing (3D modeling)
- 2D&3D data registration & management
- Intuitive information delivery through drawing function on shared screen
- Information delivery by texts
- Screen recording and history management
- Connectivity with various devices
- Log management
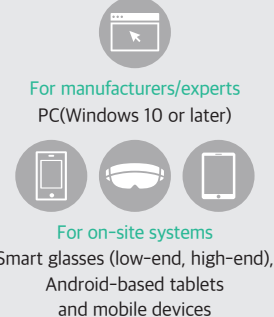- Customized configuration for customer needs

Effects

- Ensuring equipment operability and availability through immediate support
- Improving customer satisfaction through immediate maintenance
- Relieving temporal and spatial constraints of operation and maintenance support
- Reducing on-site support personnel retention and cost for maintenance
- Efficiently supporting the maintenance of export equipment

QS X AXT

AJINEXTEX AXT XR Glass

XRQS-Collaboration Software

Devices

For manufacturers/experts
PC(Windows 10 or later)

For on-site systems
Smart glasses (low-end, high-end), Android-based tablets and mobile devices
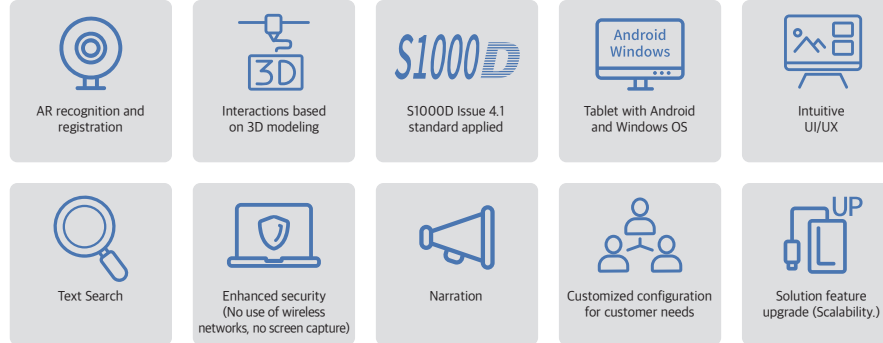

XRQS Solution 2

XRQS-Maintenance
XR-based maintenance support solution

A solution that provides information more intuitively and efficiently by applying XR-based technology and 3D modeling and implementing contents on mobile devices in order to supplement the existing booklet-type technical manuals

XRQS-Maintenance, an XR-based maintenance support solution, is a solution that implemented the existing booklet-type technical manual on mobile devices (tablets, etc.) by applying XR-based technology. It was developed by applying XR-based technology, AR recognition and registration technology, 3D modeling, S1000D issue 4.1 standard, etc. We will apply more advanced technologies such as IoT, sensors, and servers to XRQS-Maintenance, and will upgrade it to integrated maintenance data management software.
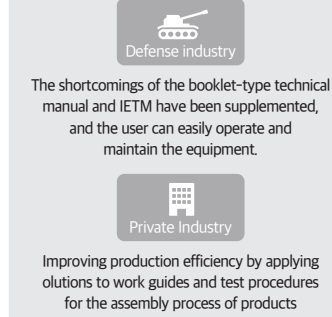
Key Features

- AR recognition and registration
- Interactions based on 3D modeling
- $1000D Issue 4.1 standard applied
- Tablet with Android and Windows OS
- Intuitive UI/UX
- Text Search
- Enhanced security (No use of wireless networks, no screen capture)
- Narration
- Customized configuration for customer needs
- Solution feature upgrade (Scalability.)

Effects

- Possible to check immediately the maintenance details of the equipment by using the AR recognition function.
- Possible to check the structure of the equipment by disassembling in advance, and reduce errors in maintenance.
- Possible to apply the changes to new data by using S1000D data, in case the contents of the technical manual are revised, (3D modeling data needs to be modified)
- Can be used as training material as well as a technical manual.
- Easy to carry and require little storage space because it is intalled and operated on a tablet.

Applications

Defense industry
The shortcomings of the booklet-type technical manual and IETM have been supplemented, and the user can easily operate and maintain the equipment.

Private Industry
Improving production efficiency by applying olutions to work guides and test procedures for the assembly process of products
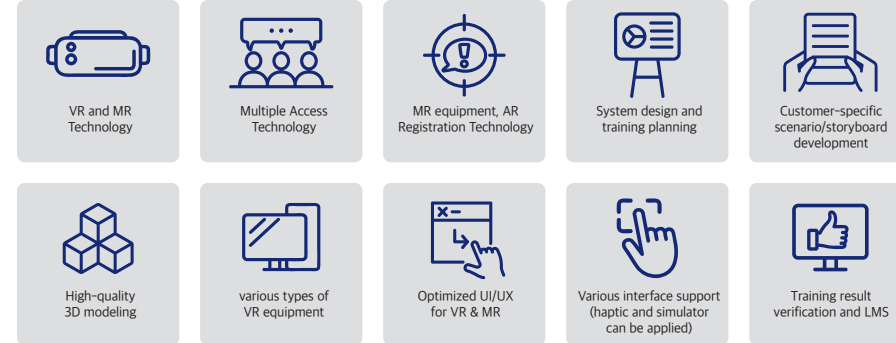

XRQS Solution 3

XRQS-Training
XR-based training solution

A training solution that maximizes the educational effect by applying XR technology, various haptic equipment, and simulators to experience similar to the real experience.

XRQS-Training, an XR-based training solution, combines VR technology, MR technology, multiple access technology, interaction implementation technology, and realistic content implementation technology. Therefore, it is possible to carry out operation and maintenance training and situation training for equipment for which training could not be provided before with the existing defense training materials. In addition, various haptic equipment and simulators maximize the training effect by providing an experience similar to training experience with real equipment.

Key Features

- VR and MR Technology
- Multiple Access Technology
- MR equipment, AR Registration Technology
- System design and training planning
- Customer-specific scenario/storyboard development
- High-quality 3D modeling
- various types of VR equipment
- Optimized UI/UX for VR & MR
- Various interface support (haptic and simulator can be applied)
- Training result verification and LMS

Effects

- Possible to conduct training by simultaneously accessing the virtual space without regional restrictions.
- Possible to conduct training in Korea by accessing virtual space, in case of training for equipment for export abroad.
- Possible to apply the changes to training in virtual space as in real life by allowing instructors to simultaneously access and conduct training.
- Cost-effective training is possible when it is difficult to secure expensive equipment
- Possible to conduct training by creating situations that are difficult or impossible to implement in real situations

Applications

Defense industry
Maximum training effect with effective introduction cost compared to equipment purchase cost

Private Industry
Effective training by introducing it to safety, facility management, and manufacturing training

---

XRQS — XR solution made by QS
XRQS — Collaboration
XRQS — Maintenance
XRQS — Training