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Company name: GLORY LTD.

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## **GLORY Develops Software for Estimating Age and Sex Using Facial Images**

Uses facial recognition technology with proven track record in the security market

GLORY has developed an innovated software, "ISG-501" to be marketed on April 1, for use with digital signage and other applications such as marketing, that can instantly estimate the age and sex of a person looking at the signage.

Digital signage with flat-panel LCD or plasma displays has recently begun to be used prominently as an advertising medium. Digital signage displays digital data, so changing what is displayed depending on the time, place and other factors makes advertising more effective than conventional signage. There is the potential for even more effective advertising when messages are changed depending on the age and sex of the person looking at the signage.

The ISG-501 software GLORY has developed instantly analyzes the face of the person looking at the signage in order to determine his or her sex and age. It uses two cameras to accurately detect the person's face over a wider range, making it possible to instantly display contents that take into account the person's age and sex as well as other characteristics like height.

In 2005, GLORY developed commercially viable facial recognition technology using its core technologies for recognizing and identifying money. Approximately 700 units of systems employing such technology were provided to security-sensitive users, earning high marks from them. High precision\* is achieved by applying this technology to ISG-501.

GLORY intends to further develop products for a broad range of sectors that apply facial recognition technology in order to help further public safety and security.

\*The software estimates age at an accuracy of 85% ( $\pm 10$  years) and sex at an accuracy of 95% within approximately one second. The software uses the "Local Feature Comparison based on Multiple Variation Analysis" algorithm for high-precision facial recognition developed proprietarily by GLORY. Specific features that identify the person are removed from the facial image data so that only features associated with age and sex remain, and this remaining data is used to estimate the person's age and sex.

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## **About GLORY LTD.**

GLORY LTD., headquartered in Himeji, Japan, is a pioneer in the development and manufacture of money handling machines and systems. GLORY provides a variety of products built on its leading-edge recognition/identification and mechatronics technology, such as money handling machines, cash management systems, vending machines and automatic service equipment. Committed to meet society's wide-ranging needs, GLORY serves the financial, retail, vending machine, amusement and gaming industries in over 80 countries of world. GLORY employs more than 6,000 people worldwide. For more information about GLORY, please visit GLORY's global website at

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