

2008/3/17 Release

## Automatic recognition technology of various style text superimposed on video images - Development of basic technology enabling “telop search” for quick access to required scenes –

Telop style able to be processed with conventional technology



Text only  
(single line/plural lines)

Variety of telop styles able to be processed with the newly developed technology



Plural lines with different text color for each line



Difference color text and contrast within a single line



Existence of borders/patterns/graphics

Hitachi, Ltd. has developed technology for precise reading of text superimposed on video (telop) introducing appearances of individuals or place names, as a step in realizing video scene search technology for the digital convergence era in which circulation of large volumes of video data is anticipated. This technology applicable to complex telops such as multiple line telop, or existence of black and white colored text in one line, is able to extract characters regardless of the telop style employed. By applying text recognition after extracting the characters, it is possible to automatically convert the telop to text data. This technology will be platform technology for next generation video search enabling quick access by keyword search to desired scenes from a vast amount of video content.

The technology developed will be presented at the 2008 General Conference of the Institute of Electronics, Information and Communication Engineers (IEICE), to be held from 18<sup>th</sup>- 21<sup>st</sup> March 2008, in Kitakyushu Science & Research Park, Japan.