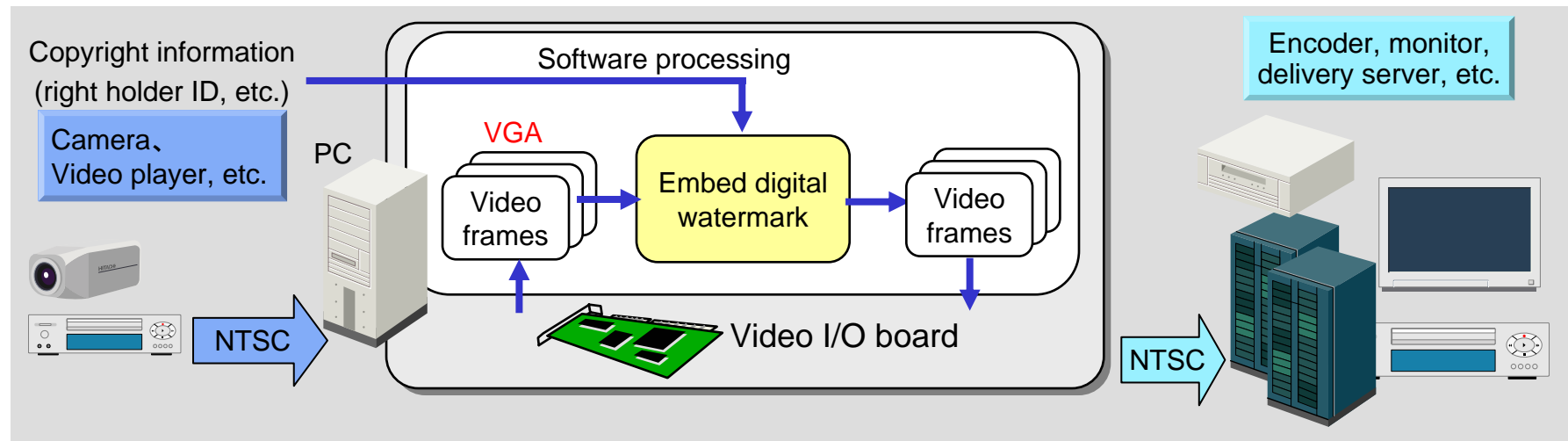


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Network distribution of real-time digital watermark embedded live video content



The Systems Development Laboratory of Hitachi, Ltd. has developed technology to enable real-time embedding of digital watermarks in live video content for network distribution. Real-time distribution of live video content was achieved by drastically reducing the processing amount of each video frame. Further, by separating the embedding and the video compression (encode) process, the system is compatible with multiple encoding methods. As the technology enables the real-time embedding of digital watermark in live video broadcasts, it is expected to facilitate the protection of copyright and portrait rights, as well as authenticate the validity of the video image.

Results of this research were presented at the IEEE International Conference on Systems, Man, and Cybernetics (IEEE SMC2006) held from 8th to 11th October 2006, in Taipei.