

# 基於TI TMS320C6711 DSK晶片與VAB軟體之影像監控即時處理及金鑰安全傳輸系統

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## 摘要

The DSK chip has been applied on digital signal and control related to voice, communication and image. The TMS320C6711 DSK chip has powerful calculating ability, therefore in this paper it is used on image processing of the real-time visual detection and the safety of internet transmission. The proposed system has the characteristics of flexibility, fast processing and real-time.

Because of the easy access of the internet, the information data transmitted through internet is easily intercepted, so personal privacy and data safety need to be considered. The cryptographic techniques provide protection for the transmission data through internet. A coding method is developed to protect the data, so the safety and privacy are achieved.

The hardware of this system includes DSK for processing data and CCD for catching image. Also the VAB software for TI TMS320C6711 DSK is needed to edit and execute modular program. The main goals of the real-time image processing and the data safety of internet transmission are obtained.

關鍵字：image detection, real-time processing, cryptographic techniques