

Solution-oriented. Efficient. Product-independent.

During the many years of its company history, HeiTel has developed a wide range of techniques to meet all customer's requirements with solutions which comply at the same time the strict and necessary safety standards. Those techniques grew into product-neutral standards themselves.

## **HTcompress®**

HTcompress is the image-optimised conditional refresh compression system developed by HeiTel. Its core combines the advantages of the full-motion picture compression method together with the single-image compression method for high definition images. Thanks to this process, which has been specially adapted to video surveillance applications, HeiTel products provide superior frame rates, even at low bandwidths. In comparison to other systems, Heitel systems also provide extremely long recording times with similarly sized hard drives or using similar recording criteria. HTcompress supports all standard image formats and megapixel IP cameras. Additionally, HTcompress ensures a constantly high image quality, even at fluctuating bit rates. An excellent freeze frame quality even with large and quick movement in the image is the result.

## **HTconnect®**

With HTconnect, HeiTel has developed a process that allows its video systems to be easily integrated into private and public IP networks despite the seemingly insurmountable hurdles of firewalls and dynamically assigned IP addresses. HTconnect allows for the secure connection of video systems via the Internet to decentralised control stations. Internet access can be assigned at the transmitter end using dynamically assigned IP addresses, yet despite this, the systems can be easily accessed without having to fall back on complicated additional network services. In fact, the customer's network can even be protected by a firewall, which would usually prevent external access. However, with HTconnect, external access to the video system can be guaranteed at all times.

Additionally, HTconnect allows access to video systems connected to 3G/UMTS networks; the otherwise obligatory use of additional, costly network services is not required here either.

Another agreeable additional benefit for the installer is that detailed configuration of the customer's router is not required (port forwarding, network address translation, etc). HTconnect simultaneously supports several IP connections (LAN/WLAN, Internet, DSL, GPRS, EDGE, UMTS, HSPA, 3G/CDMA). The combination with other transmission modes, e.g. via PSTN/POTS, ISDN, IP Networks or GSM for a redundant, fall-back transmission, is possible.

## **HTrecord®**

At first glance, today's image recording systems only appear to have minor differences from each other. But in practical use, the requirements by far exceed rudimentary functions such as continuous recording and event recording. With HTrecord, HeiTel has developed a universal recording method to optimally exploit available storage capacity. Camera-selective memory allocation with freely selectable storage time, protection from unintentional over-writing of safety-related recordings, deletion of older pictures in full compliance to regulations, image quality that can be individually set independent of the image transmission rate, and the use of removable hard drives are all functions included in the basic features of HTrecord. In contrast to normal recorders, the basic recording

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methods have additionally been optimised for the widest range of uses within HTrecord. This includes event-controlled recording with freely configurable pre-alarm, main alarm and post-alarm phases as well as calendar control of continual recordings over various time zones with optional event optimisation to increase recording capacity. In addition to classical video/audio recording, HTrecord also stores POS, ATM, GPS or IBIS data synchronous to the image, independent of the application used. The menu options with simplified functions for easy configuration of operating modes are also very helpful, as well as the automatic projection of the recording time in accordance to the recording criteria. Additionally, all recordings have been optimised for image export and efficient remote evaluation of archives via narrow-band transmission routes.

### **HTprotect®**

Right from the start of developing products for the CCTV market, HeiTel has attached great importance to data protection and safety against manipulation of customer-specific data. Against this background, HeiTel only uses dedicated hardware components and proprietary software solutions combined with embedded Linux for the development of its image recording and image transmission systems. The total responsibility for the system design provides the best conditions for an extremely stable platform and the basis for additional measures to increase safety against manipulation. Recording and transmission of video images is always done using HeiTel's own, encrypted image format based on HTcompress. Furthermore, the image data encrypted in this way is stored by HTrecord in a special file format developed by HeiTel itself. Tailor-made transmission protocols, individual user profiles and additional password levels when dialling into the HeiTel security system, as well as additional password prompts when evaluating hard disk archives, round off the efficiency of HTprotect. To prevent manipulation of exported images, HTprotect provides secure export in the HeiTel format as well as a separate authenticity check for exported images in standard format.