

## Firmware History for CamDisc SVR, CamTel SVR and Cam4mobile

(Serial numbers: CQxxxxxx, CVxxxxxx, TQxxxxxx, TVxxxxxx, MQxxxxxx, MVxxxxxx)

### **Important note to firmware 1.46 and or higher:**

Extensive intervention in the structure of the device setup was required for carrying changes of the firmware so that the **CamControl LITE/PRO** from V 3.66 is required for the parameterisation of latest HeiTel devices from Firmware 1.46.

The latest receiver software is not necessarily required for the usage of standard functions like live transmission, alarms, tours, image access etc.

We recommend to bring the service, alarm and configuration software **CamControl LITE/PRO** to one version from 3.66.

As installer, please inform all those concerned as well as the superordinated control centres, security centres and end users.

### **Firmware V2.02** **2011-10-13**

(Support of all functions only with CamControl LITE 4.06/CamControl PRO 4.06 or higher)

- Extended PTZ control via mouse cursor and joystick
  - PTZ with manual speed control for IP cameras from Sanyo, Sony, Messoa, Vista, Dynacolor and Grundig
- Motion detection from Axis, Dynacolor and Grundig IP cameras integrated
- New Web Server (V1.29)
- New Web API (V1.8)
- Various bug fixes:
  - PTZ control with Philips/Bosch software remote adapter corrected
  - Users without passwords do not get password expire messages any longer
  - Display problems with Axis 4 channel video server corrected
  - Default settings for HD power down function modified: The hard drive now can be set to standby mode via "V out" and "Aux 2"

### **Firmware V1.98** **2011-06-14**

(Support of all functions only with CamControl LITE 4.05/CamControl PRO 4.05 or higher)

- Integration of several IP cameras from the following manufacturers (see IP camera compatibility list):  
Arecont, Axis, Brickcom, Grundig, Hikvision, Honeywell, Pelco, Samsung, UDP technology, Visicom, Vivotek
- Integrated Motion detection from the UDP IP camera model IPE1100M
- Sensomatic V2.00 protocol added to software PTZ remote adapter
- New log file entry "Video signal ok on input x" added
- Log file entry "Track xx deleted" is renamed as "Track xx initialized"
- Alarm panel protocol corrected (IK07 "HAS\_VIDEO")
- PTZ control for Dynacolor and Grundig IP cameras optimised
- New Web Server 1.27

### **Firmware V1.96**

**2011-05-02**

(Support of all functions only with CamControl LITE 4.01/CamControl PRO 4.01 or higher)

- Various error corrections
  - HDD formatting adjustments
  - Undefined disarmed/armed status corrected
  - BBV, Santec and Fastrax protocol adjustments in the software remote adapter
- New Web Server (V1.26)
- New Web API (V1.7):
  - Support of live and recorded audio playback
- New option to change the handling of PTZ, audio and relay control to ensure better operation with 3rd party monitoring software
- Support of voltage-monitored control inputs with **CIO Adapter**
- Enhanced Video Motion Detection:
  - Renaming of sensitivity levels to Low, Middle, and High
  - Short term suppression (History) of global image changes (e.g. light changes)
  - Brightness compensation with a definable suppression time of 0.5 to 5.0 seconds

**Note:** A lower sensitivity or higher suppression times can reduce false alarms but can also unintentionally mask real alarms.
- Support of Soyal access control systems

### **Firmware V1.94**

**2010-12-09**

(Support of all functions only with CamControl LITE 3.98/CamControl PRO 3.98 or higher)

- Problem fixed with call up of preset positions when using **CI Adapter** and Sensormatic domes
- New Web Server (V1.25)
- New Web API (V1.6)
  - Arming/Disarming function of transmitters added
  - System status armed/disarmed via the Web Server and Web API corrected
- Error corrections:
  - Log file entry fixed where control input 3 and 4 erroneously triggered (only for **CamDisc SVR 4**)
  - Summer/winter clock change corrected
  - Timer controlled recording corrected
  - Various PTZ protocol corrections (Pelco, Samsung, Dennard, Honeywell, Baxall)
- Integration of several IP cameras of the following manufacturers (see IP camera compatibility list):  
Canon, Dynacolor, Hitron, NoVus, Samsung, SANTEC, Sanyo, Vista

### **Firmware V1.92**

**2010-07-02**

(Support of all functions only with CamControl LITE 3.92/CamControl PRO 3.92 or higher)

- New Web Server (V1.24):
  - Adjustments for **CamControl MV** implemented
- Correction of NTP function (network time protocol)
- Configuration of tamper input possible (NC or NO)
- Audio live transmission and audio recording optimised (mandatory **CamControl LITE/CamControl PRO** version 3.92 or higher)
- Support of IP cameras optimised:
  - IP address (or symbolic address) of IP cameras, can now be extended with a port address
  - Maximum resolution of 2560 x 1800 pixels for integrated IP cameras
  - Optimisation of recording and transmission
  - Improved support for Sanyo model VCC HD4000 P
  - Alternative video format MJPEG (streaming mode) for integrated IP cameras from the following vendors: Axis, Basler, Dynacolor and IQeye
  - Integration of IP camera; Samsung SNB-5000, using the video format MJPEG
  - Optimisation of PTZ control for Messoa NDZ860H2
- POS filter adjusted for Cyrillic characters (Russian)
- Extension and corrections to a couple of PTZ protocols
- Camera position authentication for analogue cameras revised and optimised:
  - Evaluation and recording of up to two reference images per camera channel (e.g. day and night)
  - A combination of device firmware V1.92 or higher and **CamControl LITE/CamControl PRO** software V3.92 is mandatory for parameterisation of the optimised camera position authentication
- Improved E-Mail function: No alarm image will be sent in the case of technical alarms (defective hard disk, reboot or video loss)
- **CamTel SVR** only: Optimised control of recording pre-alarm image: Exclusive recording of analogue camera signals

### **Firmware V1.90**

**2010-02-03**

(Support of all functions only with CamControl LITE 3.90/CamControl PRO 3.90 or higher)

- Integration of Sanyo IP cameras
- Extension of software PTZ remote adapters
- User password expiration option corrected

### **Firmware V1.88**

**2009-12-01**

(Support of all functions only with CamControl LITE 3.88/CamControl PRO 3.88 or higher)

- User password expiration option
- Call-up of preset positions for IP cameras using the **CI Adapter**
- Time synchronisation via NTP server
- Integration of Bosch PTZ IP cameras
- Software PTZ remote adapter for the support of various analogue remote and PTZ systems implemented

### **Firmware V1.86**

**2009-10-12**

(Support of all functions only with CamControl LITE 3.87/CamControl PRO 3.87 or higher)

- Improvement of the live and archives image quality when using NTSC cameras
- Improvement of the image quality of NTSC cameras with the email feature
- Recording speed optimised
- Standby mode removable hard disk drive: Controlled, timed shut down of the hard disk is now possible for general power down and hard disk changes by using the **V out** button on the device front panel and/or the **Aux in2** input on the rear of the device.
- Correction of the Smartsearch function with activated Motion Detection
- New Web Server V1.21: The port the Web Server uses can now be configured to suit the customer/site requirements

### **Firmware V1.84**

**2009-09-16**

(Support of all functions only with CamControl LITE 3.86/CamControl PRO 3.86 or higher)

- Device setup with activated DHCP corrected
- Integration of several IP cameras of the following manufacturers (compare IP camera compatibility list):
  - ACTi (with firmware 3.11 or newer), Arecont, Basler, Hunt, IQeye, JVC, Messo, Panasonic, Samsung Electronics, Sony, Visicom
- Support of PTZ functionality and maximum 16 preset positions for IP cameras

### **Firmware V1.80**

**2009-07-03**

(Support of all functions only with CamControl LITE 3.85/CamControl PRO 3.85 or higher)

- Web Server update to V1.19 (inclusive Web API V1.5)
  - Performance improvements

### **Firmware V1.78**

**2009-05-18**

(Support of all functions only with CamControl LITE 3.84/CamControl PRO 3.84 or higher)

- Relay functionality extended with "closed while in alarm" and "closed while alarm enabled" (armed)
- Presentation of the alarm image from IP cameras corrected
- Additions to the log file entries "NW" (for network connections) and "UB" (for USB connection)
- Expansion of alarm functions for camera control inputs and **CI Adapter**:
  - Off
  - Alarm
  - Fire/Panic
  - Entry/Exit
- 'AND' function for motion detection alarm and camera control input

**Firmware V1.76****2009-03-27**

(Support of all functions only with CamControl LITE 3.83/CamControl PRO 3.83 or higher)

- Transmitter settings for IP cameras
  - Entering of symbolic addresses for IP cameras optimised
  - Blocking of PTZ access rights for IP cameras with multiple connections now possible
- Login behaviour improved
- GPS data display and recording
  - Displaying of GPS data during live transmission and archive playback (PC archive/Site archive)
  - Display of current position and tour of journey with Google Earth
- Performance of the web server improved
- Additional relay functionality "Closed while recording"
- Additional recording settings:
  - New feature; toggle between continuous and event recording with camera control input 'Control in'
  - Behaviour of event recording improved
- Behaviour in case of alarm of HeiTel transmitters with Intruder Detection Systems (IDS) via TCP/IP, in accordance with the protocol "VdS 2465 for video" adjusted
- Signals of alarm and log file entries with the **CI Adapter** optimised

**Firmware V1.74****2009-01-09**

(Support of all functions only with CamControl LITE 3.82/CamControl PRO 3.82 or higher)

- Support of IP cameras
  - Receiving and displaying live and recorded images from up to 2, 4 or 10 IP cameras per device (dependant on model)
- New Web Server 1.17 supports the transmission of images from IP cameras to Web Browsers
- **CamTel SVR 4/10**: Date format adjustment of pre-alarm images in accordance with the ISO standard 8601 "YYYY-MM-TT HH:MM:SS"

**Firmware V1.72****2008-12-17**

(Support of all functions only with CamControl LITE 3.81/CamControl PRO 3.81 or higher)

- Functional interaction of HeiTel transmitters with Intruder Detection Systems via TCP/IP, in accordance with the protocol "VdS 2465 for video" adjusted
- Optional time synchronisation via IBIS or IDS optimized

**Firmware V1.70** **2008-11-14**

(Support of all functions only with CamControl LITE 3.81/CamControl PRO 3.81 or higher)

- Date format adjusted in accordance with the ISO standard 8601  
"YYYY-MM-DD HH:MM:SS"
- Behaviour of warning threshold on event and continuous recording optimized
- Additional recording setting:
  - Warning threshold can now be activated independent from the overwrite protection
- Automatic IP address assignment (DHCP option) corrected
- Extension of the IBIS functionality:
  - Additional recording of IBIS data (vehicle number, route number, course, station)
- Integration of Intruder Detection Systems (IDS):
  - Functional interaction of HeiTel transmitters with Intruder Detection Systems via TCP/IP, in accordance with the protocol "VdS 2465 for video"
- Time synchronisation via IBIS or IDS (optional)
- Updated Web Server

**Firmware V1.68** **2008-09-09**

(Support of all functions only with CamControl LITE 3.78/CamControl PRO 3.78 or higher)

- Device setup corrected
- Device reset is possible with 300 and 600 baud now
- Loading of PTZ protocols corrected

**Firmware V1.66** **2008-08-26**

(Support of all functions only with CamControl LITE 3.78/CamControl PRO 3.78 or higher)

- Timing behaviour is altered for the Generic protocol PTZ commands

**Firmware V1.64** **2008-08-12**

(Support of all functions only with CamControl LITE 3.78/CamControl PRO 3.78 or higher)

- **CI Adapter:** arm/disarm input now correctly arms/disarms the alarm inputs from the **CI Adapter**
- Web Server connection corrected: In the case of an alarm the Web Server connection isn't interrupted
- E-mail delivery optimised
- Automatic IP address assignment (DHCP option) corrected

**Firmware V1.62** **2008-05-16**

(Support of all functions only with CamControl LITE 3.78/CamControl PRO 3.78 or higher)

- Additional alarm call reporting: Transmitters will now report "Alarm in case of reboot"
- Updated Web Server V1.15 with Web API 1.3
- Updated DSP Software with comprehensive corrections:
  - Detection of camera covering (low contrast alarm) optimized
  - Identification of last caller for modem and ISDN-TA connections improved
  - Alarming over network and via E-Mail optimized
- Updated Kernel drivers:
  - Improved PTZ control (e.g. for Samsung cameras) by optimized Kernel driver for serial control of the PTZ interface
  - Use of corrected Kernel driver for control of real time chip
- **CamTel SVR**: Setup of image quality for pre-alarm archive revised

**Firmware V1.60** **2007-12-17**

(Support of all functions only with CamControl LITE 3.75/CamControl PRO 3.75 or higher)

- Activation of the USB interface: From firmware version 1.60 **CamDisc SVR**, **CamTel SVR** and **Cam4mobile** will support data connection via the front panel USB, connector. The maximum transfer rate will be 9.7 MBit/s.  
**Note**: USB connection is not supported with **CamDisc SVR s** series devices and **CamServer 2**.

**Firmware V1.56** **2007-09-25**

- **CamDisc SVR**: Optimized POS/ATM archive setups

**Firmware V1.54** **2007-08-13**

(Support of all functions only with CamControl LITE 3.70 or higher)

- Camera position authentication (detects unauthorised tampering of the camera view)
- **HTconnect**: "Leased line" feature for TCP/IP connections, using transmitter-initiated semi-permanent connection to receiver PC. With very low data transfer volume while connection is "inactive" (circa 6 Byte/min).  
(Applications: DSL/3G (UMTS) connections, restrictive Firewall)

**Firmware V1.50** **2007-07-10**

(Support of all functions only with CamControl LITE 3.68 or higher)

- Improved handling of email function
- **CamTel SVR**: Corrected date display for pre-alarm images
- **CamDisc SVR** : Extended evaluation for ATM data of **POS/ATM Adapter**

### **Firmware V1.46**

(Support of all functions only with CamControl LITE 3.66/CamControl PRO 3.67 or higher)

- Integrated email client for alarming up to two email addresses, optionally with or without alarm image
- Support of **PSTN Card** (modem card for analogue connections with up to 33,600 baud)
- Revised POS character filter
- Improved video loss handling! Camera-specific alarming of video loss
- Support of IBIS (Integrated Board Information System) control commands for date & time via transparent serial channel for synchronisation of HeiTel devices

### **Firmware V1.42**

(Support of all functions only with CamControl LITE 3.64/CamControl PRO 3.65 or higher)

- Optimized "Momentary" function of relays: If a relay is activated and then the connection to the transmitter is ended, the relay will continue its time period (assuming the "RESET offline" option is unticked)
- New Web server features; now with control of the 2 internal relays, optimized Web browser support and Web interface for external applications (API)
- Configuration option for "General alarm input": the general alarm input can now have a time delay before it is activated to ensure against false triggers
- Optimised firmware update (faster and easier handling)

### Firmware V1.40

(Support of all functions only with CamControl LITE 3.63 or higher)

- Default settings for the live picture quality changed to 720 x 288+
- New option for overlaying transmitter name and camera name into live and archive pictures
- Support for the new generation of **Audio Card**
- Port number can now be defined for the IP address of the receiver PC. E.g. **CamDisc SVR** "Connections-Phone & IP numbers" e.g. 192.168.31.200:3001
- Port 80 can now be used as the port for both the receiver software (e.g. CamControl LITE) and any transmitter. If using this port, the Web Server will automatically be disabled
- Timetables for switching summer/winter time are also adjusted for the American "Energy Bill"
- **CamTel SVR**: optimisation of user-access-control rights to pre-alarm images
- **CamDisc SVR**: support for the new generation **POS/ATM Adapter**
- **CamDisc SVR**: changes of the POS archive  
**Attention**: previous and current POS archives are not compatible. POS archives created with older firmware versions will be deleted after updating the firmware to the latest version. Just in case, a firmware update should only be carried out after checking the recordings availability and archiving the information from the CamDisc.
- **CamDisc SVR/Cam4mobile**: Full triplex mode when using online player software. Recording is no longer interrupted when reviewing the recordings using "Evaluation with optimal functionality".
- **CamDisc SVR/Cam4mobile**: optimized recording (faster)
- **Cam4mobile**: after formatting the HDD, the device loads a saved preset and user profile setup out of the internal flash memory

### Firmware V1.38

(Support of all functions only with CamControl LITE 3.58/CamControl PRO 3.58 or higher)

- Added support for the serial numbers of future models (WDxxxxxx, WSxxxxxx, WVxxxxxx, WFxxxxxx, WQxxxxxx) implemented to ensure the interoperability of the Hard Disk Drives
- Arm/Disarm function: additional option in the device setup menu to allow remote arming/disarming of transmitters via the CamControl Software. Applies to all **SVR** series and **Cam4mobile** devices
- LAN auto detection support: **CamControl LITE/PRO** software (3.58 and above) can automatically detect all HeiTel devices on the local network (devices must be firmware 1.38 or above)
- DHCP support: Optionally, the HeiTel device can now automatically obtain a dynamically assigned IP address from a DHCP server and if applicable an IP address of a DNS server

### Firmware V1.36

(Support of all functions only with CamControl LITE 3.53/CamControl PRO 3.53 or higher)

- New Web Server feature, now with configurable connection timeout
- Automatic system reset after setup changes to DNS settings
- **CamDisc SVR**: Audio recording onto hard disk drive (**Audio Card** required)

### **Firmware V1.32**

- **CamTel SVR:** Optimisation of error verification

### **Firmware V1.30**

(Support of all functions only with CamControl LITE 3.51 or higher)

- Implementation of up to 5 privacy zones per camera for live images or live and recorded images
- Integrated Web Server enables access to live images via standard Internet web browser via PC, PDA, Smartphone
- Improved audio latency for IP and ISDN transmissions from site
- **CamDisc SVR:** Online Player support; the Player accesses reading the **CamDisc SVR** HDD over TCP/IP connections

### **Firmware V1.28**

(Support of all functions only with CamControl LITE 3.43/CamControl PRO 3.43)

- Operation with serial commands
- Adjustable time-out for camera blinding detection

### **Firmware V1.26**

- **CamDisc SVR:** enhanced POS functionality (recording and evaluation of transaction data)
- External storing and reloading of transmitter setup

### **Firmware V1.24**

- Optimised transmission, recording and replay of NTSC video signals
- **CamDisc SVR:** recording and evaluation of POS transaction data in combination with HeiTel **POS Adapter**

### **Firmware V1.22**

- **CamTel SVR:** Adjusting of DSP settings to prevent over exposure of highlights (blooming)

### **Firmware V1.20**

- Support of **R16 Adapter** (16 way relay module)
- New Option: change of signal at the control inputs will only be logged if the transmitter is armed
- **CamDisc SVR:** activating the functions "Format HDD" and "Load Configuration Profile" at the same time possible

### **Firmware V1.18**

- Internal ISDN Adapter (**ISDN Card**) settings adjusted to work with British Telecommunication ISDN line

### **Firmware V1.16**

- **CamTel SVR:** video loss detection optimised
- Log file entry USR (User has no access rights) added

#### **Firmware V1.14**

- **CamDisc SVR:** automatic correction of defective partitions and boot sectors
- Option "Disconnect and Alarm" functional
- New and enhanced log file entries: ADC (Auto Disconnect), Power On (includes DSP info)
- Support of DNS (Dynamic Name Server)

#### **Firmware V1.12**

- Remote firmware update using **CamControl LITE** possible

#### **Firmware V1.10**

- Initial Release