



DeryTech (DIP-C 187)

High Resolution Vandal-Proof IP Camera

Add a heavy duty vandal-proof IP Camera and management system to your indoor/outdoor security set-up.

Features

- 1/3" SONY HQ1 CCD high resolution DSP color network dome
- Built-in vari-focal, auto-iris lens with 3X optical zoom for precise location monitoring
- Day/Night auto switching
- Minimum illumination of 0.09 lux provides excellent low light video
- Heavy duty vandal-proof construction for use in all locations
- Water proof (IP66 standard) enclosure for all outdoor environments
- Multi-cast function for unlimited user access in private Lan environment
- Flickerless function and image stabilizer for enhanced picture quality
- AV sync and Two-way audio
- MPEG4 ASP compression provides up to D1 resolution for real-time video
- 540 TV Lines resolution
- QoS software provides uninterrupted real-time preview and record
- Built-in SD memory card slot to record upon event or as backup storage
- PoE power source option
- WLAN 802.11b/g dongle option
- Privacy Zone Masking of up to 300 zones
- Smart Guard System to detect unusual events and connect to DI/DO devices
- Low power consumption for reliability and stability
- Sophisticated management system



The DeryTech DIP-C 187 is a high performance, cost effective, IP camera designed for surveillance and remote monitoring in all situations and environments. Combining the latest color camera hardware with the most up-to-date image enhancing digital technology, AES encryption and a sophisticated management system, the DIP-C 187 offers the very best in image quality, security and flexibility.

Built around a 1/3" SONY HQ1 CCD high resolution DSP color Network camera, the DIP-C 187 utilizes MPEG4 ASP compression to provide D1 resolution for real-time video and exceptionally sharp 540 TV line images. With a built-in vari-focal, auto-iris lens and 3X optical zoom, together with a 3-axis mounting ring and image enhancing features such as image stabilizer, auto OLPF and flickerless function, the DIP-C 187 provides clear and stable full-motion video of its chosen target area.

The camera is fitted inside a heavy duty vandal-proof and IP66 standard waterproof enclosure, allowing the DIP-C 187 to be sighted in almost any indoor or outdoor location. With day/night auto switching and a minimum night-time illumination requirement of just 0.09 lux, the DIP-C 187 is able to provide excellent video in all but the blackest conditions, whilst its advanced system design results in ultra-low power consumption of just 5W, reducing heat generation and adding to its overall stability and reliability.

In addition, the DIP-C 187 also boasts other special features such as enhanced data security via AES key encryption to ensure the integrity of sensitive data, a built-in SD memory card slot for an added recording option on event or as backup storage on network failure, a PoE power source option and a Wireless Lan USB dongle. When connected to the internet, uni-cast transmission allows up to 10 people to simultaneously view the live video feed, whilst on a private local network, multi-cast transmission offers unlimited user access to the camera, all subject to access management provided by multiple access levels and IP address filtering.

The DIP-C 187 also comes with its own proprietary multi-function management software, the DeryTech Surveillance Management System, which provides easy system set-up, intelligent control and versatile operation. Features include a highly efficient data stream that allows up to 64 IP cameras to be remotely managed and recorded simultaneously, and a recording scheduler and playback system that provide flexible configuration of the recording schedule and easy search and playback based on system, event or counter logs. Furthermore, the Smart Guard system integrates the smart detection of motion,

missing objects, lost signal etc. with alarm systems and other DI/DO devices.

All-in-all, the DIP-C 187 offers a complete network based surveillance camera and management system that provides the highest quality video with built-in security and other practical features, and delivers the most cost effective solution for security system integrators and users.

Specification

| Image system | | |
|-------------------------------|---|--|
| Image frame rate | 30fps at 720 x 480 resolution NTSC 25fps at 720 x 576 resolution PAL | |
| Compression | MPEG4 ASP Hardware Compression | |
| Max. resolution | Full D1 | |
| Effective pixels (HxV) | 768 x 494 (NTSC) 752 x 582 (PAL) | |
| Imaging area | 3.7mm x 2.7mm | |
| Image pickup device | 1/3" type SONY HQ1 CCD | |
| Electric | | |
| Scanning system | 2:1 Interlace V: 59.94Hz H: 15.734KHz | 2:1 Interlace V: 50Hz, H: 15.625KHz |
| Sync system | Internal / linelock | |
| Horizontal resolution | 540 TV lines | |
| Built-in lens | f=3.7~12mm, F1.6 vari-focal lens 3X optical zoom | |
| View angle (DxHxV) | W=97.9o(D), 76.1o(H), 55.8o(V) T=29.7o(D), 23.8o(H), 17.9o(V) | |
| Gamma correction | 0.45 | |
| Minimum illumination | Slow shutter mode: 0.2 lux Night mode: 0.09 lux | |
| S/N ratio | More than 50dB (AGC off) | |
| Gain control | Auto (turbo / normal) | |
| White balance | Auto trace white balance | |
| BLC | On / Off | |

| | |
|------------------------------|---|
| Video output | 1Vpp composite output, 75 ohm |
| Network | |
| Ethernet | 1 x 10/100 base-T Ethernet connection for LAN/WAN |
| Supported Protocols | TCP/IP, HTTP, ARP, PPPOE, DDNS, DHCP, RTP/RTSP |
| Simultaneous access | Multicast (unlimited), Unicast (10 users) |
| I/O connectors | |
| Network port | 1 x RJ45 |
| Analog video output | 1 x BNC connector (NTSC/PAL) |
| Serial connector | RS485 |
| Backup storage | SD card slot |
| USB slot | For Wireless 802.11 b/g USB dongle |
| DI/DO | Multi-camera DI/DO integration; DI triggered recording and e-mail messaging |
| Power supply | |
| Power requirement | AC 24V / PoE (802.11af) supported |
| Power consumption | 5 W (max.) |
| Environment | |
| Operating temperature | -10 °C ~ 50 °C |
| Operating humidity | 30% ~ 90% RH |
| Storage temperature | -20 °C ~ 60 °C |
| Mechanism | |
| Dimensions (OxH) | 90mm x 160mm |
| Weight | 870g approx. |
| Vandal proof | 1000Kg impact resistance, IP66 |
| Water proof | IP66 |



DeryTech Surveillance Management System

The DeryTech Surveillance Management System is a proprietary system specifically designed to work with DeryTech network cameras. It provides easy system set-up, intelligent control and versatile operation, and being a network based system, it is capable of running multiple cameras via a single Ethernet cable, allowing for efficient coverage of large target areas and offering scalability and flexibility.

Major Features

- Supports up to 64 IP cameras
- Supplies up to D1 recording resolution
- Synchronized video and audio
- Motion detection recording
- Integrated PTZ control
- Connects to DI/DO devices
- Full screen display
- Dual monitor function for viewing live video and playback simultaneously
- System, event and counting logs for quick search and playback
- Back-up to hard disk, DVD, CD and network storage
- Easy management of all DIP-C 185 network dome functions



Main System

- Easily configured recording scheduler
- Adjustable recording quality and frame rate for each camera
- Smart detector for motion, object counting, missing object, signal loss, focus loss and camera occlusion
- Smart Guard system integrates smart detector with alarm systems and other DI/DO devices

- Digital Output (DO) alarm to E-mail and telephone
- System lock protection

Playback system

- Simultaneous playback of up to 16 channels
- Easy date and time selection for convenient playback
- Smart Search functions for motion, missing objects, foreign objects and other events
- Exports video to avi files
- Saves and prints recorded images and video clips
- Real-time video enhancement tools for improved image quality

Remote Live View

- Connects to multiple servers
- Built-in web server
- Remote PTZ Control
- User access control
- Remote playback

| | DIP-C185 (Network dome) | DIP-C187 (Vandal dome) |
|---------------------|--|-----------------------------|
| Resolution | 480 TV Lines | 540 TV Lines |
| CCD | 1/4" SONY CCD | 1/3" SONY HQ1 CCD |
| SD slot | Yes | Yes |
| POE | No | Yes |
| WLAN dongle | No | Yes |
| PTZ control | Yes | No |
| Lens | 300X zoom: 25X optical zoom & 12X digital zoom | Vari-focal, 3X optical zoom |
| Vandal proof | No (new vandal SKU will be available from December 2006) | 1000kg |