NetWatch® Intelligent Video Solutions

Advanced Research & Technology Ltd

CIR *Camera Interface Recorder,* NVR *Network Video Recorder*

CIR

The CIR captures video from PAL or NTSC legacy cameras. The CIR provides telemetry interface for PTZ camera control, full duplex audio, digital inputs and outputs. It is responsible for recording the data locally and streaming the data to networked devices such as Control Stations or NVR's. The CIR can also interface with IP cameras directly.

The CIR provides the peripheral device interface and intelligence for the system. It is able to analyse and process video and digital data through the use of mathematical 'Transforms' to obtain accurate motion detection in unison with any digital inputs information to perform its functions in accordance with user specific requirements.

NVR

Network Video Recorders provide a networked archive of video data allowing authorised Surveillance Control Stations to replay or download historic data (typically: from a few seconds, to many months ago). NVR's can be employed to provide a data backup to increase system availability. They are used particularly where the primary CIR may be at risk from criminal damage or where radio networks may be temporarily unavailable. On larger systems they provide extended data storage for archive material and video data distribution that otherwise may be overwritten at a CIR. NVR's can record data streamed to them by either a CIR or directly from an IP camera. NVR's are available in RAID versions for improved data security.

User Benefits

- Proven technology - in use for over 12 years by major Government, Commercial and Industrial users
- Proven compatibility with major network hardware suppliers - no compatibility risks when AR&T plan system
- Integrated features guaranteed to meet all common security applications - lowest risk solution possible
- Highly cost effective solution for larger surveillance systems
- Surveillance system reach is only limited by the network
- Can be used over the Internet allowing long distance surveillance
- Visual Intelligence reduces fatigue and loss of attention by operators
- Mapping function allows operators to have better visualisation of events
- Can be implemented to provide high availability of data for high value assets
- Digital networked video can provide better quality and easier access than analogue systems
- Wireless communication options provide cost effective data distribution
- Integrated diagnostics help rapid fault location and reduce down time
- UK design and manufacture - support available when required
- Bespoke hardware and software solutions available for non-standard applications

Mounting Styles

NetWatch products are supplied in Wall Mount, 1U, 2U and 4U rack mountable case styles.

All rack mount styles are constructed with steel bodies and stainless steel front panels providing attractive, industrial quality, equipment and equipment room fixtures.

Wall Mount

1U

2U

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CIR and NVR common features

- **Resolutions supported 190x160 to 768x576 pixels**
- **Local recording storage capacity 250GB to 8TB per unit**
- **Local RAID supported**
- **Recording continuously or by programmable schedule**
- **Recording scheduled low / high frame rates**
- **Recording high frame rates on picture motion**
- **Recording and Alarm on VMD**
- **Recording Pre and post alarm event**
- **Recording to user defined time period 1 - 99 days**
- **LAN, WAN and WI FI connectivity supported, 10 meg to gigabit**
- **SMS on alarm, voice and data**
- **Event logging**
- **Alarm logging by camera data Stream**
- **Advanced Motion detection and tracking system available; see MIST data sheet**
- **Full duplex audio communication with SCS**
- **Digital inputs and outputs, 8 to 32 integral**
- **SNMP Support - Device Alarm active Trap, device Alarm state change to inactive Trap. Device Status available for polling**
- **Full SDK available for third party Control Station Client developers**
- **HTTP Server support for internet browsers**
- **Communications Bandwidth Management tools, High / Low / Auto quality settings**
- **Low to high speed IP connection protocols supported**
- **Communication performance and monitoring tools**
- **Remote recording protocol**
- **Internet connectivity, private and shared port structure**
- **Full support for network multicasting**
- **Supports remote configuration, restarts, close down, set-up and software revision, status information for servicing and commissioning functions**
- **Password protected configuration utilities and sensitive camera views**
- **Video transforms supplied, Contrast/Brightness enhance, Integrator, Rotator, Resolution re-sampler, Colourise, for thermal views**
- **RTSP Real Time Streaming Protocol support for H.263 and H.264 MPEG4**

CIR Only Features

- **Multiple camera input capability 1 to 16**
- **Multiple resolutions supported QCIF to 4CIF**
- **Legacy PAL and NTSC camera support**
- **Frame rates from 1 to 25 P/S/C**
- **Visual and thermal spectrum camera support**
- **Camera and digital device event logic**
- **Camera real world co-ordinate position, range and bearing options**
- **Functional camera protocols supported**
- **Functional camera auto home and compass segment presets included**
- **Remote recording communication protocol included**

NVR Only Features

- **Multiple LAN video data streams, input capability 1 to 16**
- **Frame rates from 1 to 25 P/S/Stream**

Compact High Capacity Data Storage