

Compression

- PAL/NTSC adaptive video inputs.
- H.264 video compression with high reliability and superior definition.
- Encoding at up to WD1 (PAL: 960×576, NTSC: 960×480) resolution.
- Each channel supports dual-stream.
- Independent configuration for each channel, including resolution, frame rate, bit rate, image quality, etc.
- Input and output video quality should be configurable.
- Normal and event recording parameters configurable per individual camera.
- Encoding for audio/video composite stream or video stream; audio and video synchronization during composite stream encoding.

Local Monitoring

- Simultaneous VGA and CVBS outputs.
- VGA output at up to 1920*1080P resolution.
- 1/4/6/8/9/16 –division live view is supported, and the display sequence of screens is adjustable.
- Live view screen can be switched in group, and manual switch and automatic cycle live view is also provided, the interval of automatic cycle can be adjusted. The selected live view channel can be shielded.
- Motion detection, tamper-proof, video exception alert and video loss alert functions.
- Privacy mask.
- Several PTZ protocols supported; PTZ preset, patrol and pattern.
- Zooming in by clicking the mouse and PTZ tracing by dragging mouse.

HDD Management

- HDD group management.
- Support HDD standby function.
- HDD property: redundancy, read-only, read/write (R/W).
- HDD quota management; different capacity can be assigned to different channel.

Recording and playback

- Holiday recording schedule configuration.
- Normal and event video encoding parameters.
- Multiple recording types: manual, normal, motion, alarm, motion/alarm and motion & alarm.
- 8 recording time periods with separated recording types.
- Pre-record and post-record for motion detection for recording, and pre-record time for schedule and manual recording.
- Searching record files by event.
- Customization of tags, searching and playing back by tags.
- Locking and unlocking record files.
- Local redundant recording.
- Searching and playing back record files by channel number, recording type, start time, end time, etc.
- Smart search for the selected area in the video.
- Zooming in when playback.

- Playing reversely.
- Support pause, speed up, speed down, skip forward, and skip backward when playback, locating by dragging the mouse.
- 4/8/16-ch synchronous playback.

Backup

- Export video data by USB, or eSATA device.
- Export video clips when playback.
- Management and maintenance of backup devices.

Alarm and Exception

- Alarm for Video loss, Motion detection, Tampering, HDD Full, HDD Error, Network Disconnected, IP Conflicted, Illegal Login, Video Signal Exception, Input/Output Video Standard Mismatch, Recording/Capture Exception, etc.
- Alarm triggers full screen monitoring, audible warning, notifying surveillance center, sending email and alarm output.
- Automatic restore when system is abnormal.

Network

- IPv6 is supported.
- TCP/IP protocol, PPPoE, DHCP, DNS, DDNS, RTSP, NTP, SADP, SMTP, SNMP, UPnP™, NFS, and iSCSI are supported.
- TCP, UDP and RTP for unicast.
- Remote search, playback, download, locking and unlocking of the record files, and downloading files broken transfer resume.
- Remote parameters setup; remote import/export of device parameters.
- Remote viewing of the device status, system logs and alarm status.
- Remote locking and unlocking of control panel and mouse.
- Remote HDD formatting and program upgrading.
- Remote system restart.
- RS-232 and RS-485 transparent channel transmission.
- Alarm event and exception information can be sent to the remote host.
- Remotely start/stop recording.
- Upgrade by remote FTP server.
- Embedded WEB server.

Development Support

- SDK for Windows and Linux system.
- Source code of application software for demo.
- Development support and training for application system.

NOTE : The DVR Should be supplied with 1 TB Hard Disk.