NVR-3016

Intelligent HD Tribrid Surveillance System

Checol Intelligent HD Tribrid Surveillance System suite delivers powerful but reliable functions from entry level to higher-end level for multiple applications in the marketplace. This TRIBRID function brings multiple video transmission formats into one single interface, including HD-SDI cameras, megapixel IP cameras, and CCTV cameras, without additional hardware costs.

Checol Intelligent HD Tribrid Surveillance System further offers diverse remote/client programs that enable to monitor, control, and playback video from a remote computer or mobile devices, such as iPhone/iPad, Android, Blackberry, Windows Mobile, and Symbian phones.

HD & Megapixel Surveillance

- Up to 16CH 1080p display & recording
- Support HD-SDI / megapixel IP cameras

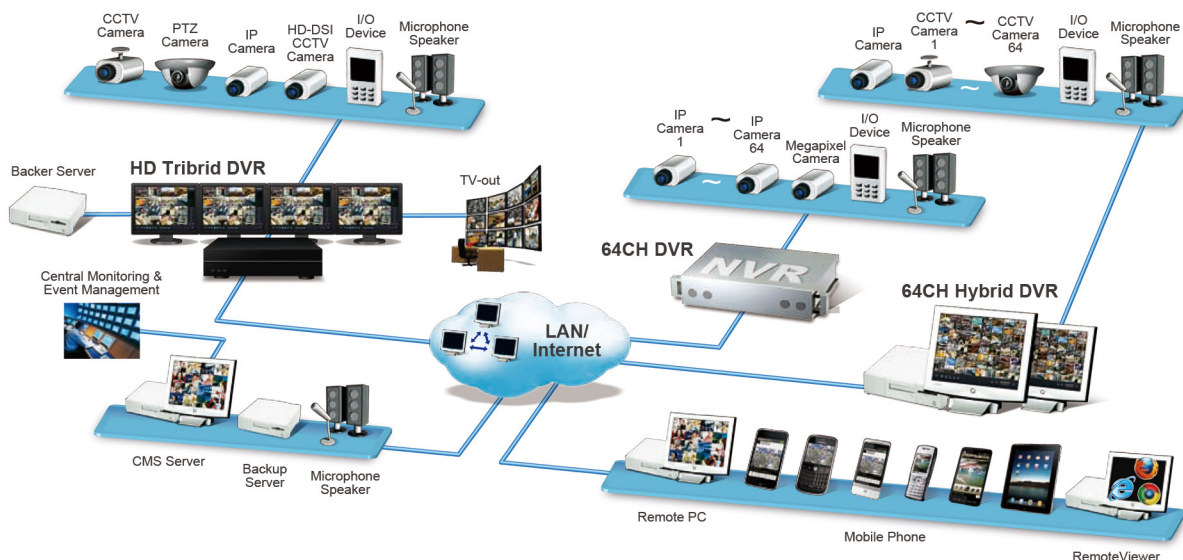- Digital PTZ with PIP (picture-in-picture) enables on-screen pan / tilt / zoom

HD   SD

Tribrid DVR / NVR

- Up to 64CH Tribrid DVR / NVR
- 3-in-1 HD Tribrid provides any combination of HD-SDI / IP / CCTV cameras

CCTV Camera

3-in-1

HD-SDI Camera   IP Camera

System Diagram

CCTV Camera
PTZ Camera
IP Camera
HD-DSI CCTV Camera
I/O Device
Microphone Speaker

IP Camera
CCTV Camera 1 ~ CCTV Camera 64
I/O Device
Microphone Speaker

Backer Server

HD Tribrid DVR

TV-out

IP Camera 1 ~ IP Camera 64
Megapixel Camera
I/O Device
Microphone Speaker

Central Monitoring & Event Management

64CH DVR

NVR

64CH Hybrid DVR

LAN/ Internet

CMS Server
Backup Server
Microphone Speaker

Remote PC

Mobile Phone

RemoteViewer

Specifications

Video Input	Up to 64 cameras
Camera Type	• HD-SDI / analog cameras (NTSC/PAL), and selected IP / megapixel cameras (ONVIF compatible) • Tribrid combination of HD-SDI, analog, and IP cameras
Audio Input	Up to 64 audio inputs
Screen Display	Site server: 16/13/10/9/7/6/4 split-screen display, full screen display, loop display, dual monitor display (32 split-screen display) MatrixView: 64/56/48/36/30/24/20/16/12/9/6/4/1 Split-Screen Display and cutomized screen layout
Resolution	1080p, 720p, 720x480/720x576 (NTSC/PAL, De-interlaced), 720x240/720x288 (NTSC/PAL, De-interlaced), 640x240, 640x480 (De-interlaced), 320x240
Display/Recording Rate (Per Camera)	30 FPS/25 FPS (NTSC/PAL) ; 60 FPS/50FPS (NTSC/PAL) with U series captured cards
Video Compression Format	H.264, HM (MPEG-4 Like), Motion-JPEG
Language	English, Traditional Chinese, Simplified Chinese, Japanese, Polish, Italian, French, Hebrew, Russian, Danish, Dutch, Serbian, Portuguese(Brazilian), Thai, Croatian, Spanish, Spanish (Mexican), Turkish, and Vietnamese, etc.

Product Features

Recording & Viewing	• Five recording modes: non-stop recording, non-stop smart recording, event recording, time-lapse recording and schedule recording • Privacy Mask allows users to mask certain areas in the surveillance video for privacy protection • Digital PTZ with PiP (Picture-in-Picture) function allows on-screen pan/tilt/zoom	• MatrixView provides 64/56/48/36/30/24/20/16/12/9/6/4/1 Split-Screen Display and cutomized screen layout • 4 monitor outputs with up to 64 individual camera selection • Disable local video display to save CPU consumption • On-screen display of camera information, including camera display/recording FPS and bit rates • Audio recording selectable format: 8 bit 8k/32k, 16 bit 8k/32k
Playback & Search	• Playback 16 video records simultaneously • Support backward playback	• Smart Search includes advanced motion search, and missing & left object search
Video Analytics	• Motion Detetion (with object size filtering), and sensor detection • Missing & Left Object Detection	• Virtual Fence Detection • Secure Zone Detection • Scene Change Detection
Event Notification	• Send event notifications by phone, email, fax, siren, flash and FTP event images • Attach event snapshots in email notifications	• Video loss notification • Email event reports on a daily, weekly or monthly basis
PTZ Camera Control	• Full PTZ camera control functions: iris, pan/tilt speed adjustment, auto-loop/auto-pan, and PTZ control by a joystick/keyboard interface • PTZ Camera Auto Tracking	• On-screen PTZ Camera Control allows few mouse clicks on video for pan/tilt/zoom operation • I/O sensors can trigger the PTZ camera to preset positions when events happen
Remote Viewing & Control	• Remote viewing and PTZ control on iPhone/iPad, Android, Blackberry, Windows Mobile and Symbia phones • Push video notification on iPhone/Android platforms • On-screen display of camera information and tracking blocks at remote sites and TV-out monitors	• Web Remote Player provides playback, download, snapshot video records from Site Server on a wide range of internet browser, such as IE, Firefox, Chrome or any flash-based browser
Central Management Solution (CMS)	• Up to 500 DVR sites for event management • Receive & manage event notifications from remtoe DVR sites • Real-time, two-way voice communication	• Support dual screens and 64 videos display • Generate event logs for archives & search • eMap support
Backup & Share	• Backup video records manually or by schedule • Export video records to an AVI file or a self-executable file (.exe). The self-executable file is embeded with digital authentication and password protection	• Snapshot a video frame for printing or save it as a BMP file with digital watermark • Digital Watermark Verification Tool verifies what has been modified in surveillance video
Access Control & Stability	• Multiple levels of access control by cameras and by authorities • Account Manger provides easy and one-step access account setting	• Provide hardware & software watchdog for system recovery • The SmartFile Management Technology avoids disk fragmentation and increase system stability for long term recording
TV-out	• Up to 16 TV-out support with multi-quad and spot monitor functions	• Multi-quad supports 16/12/9/6/4/1 TV split screens • Support HD-SDI/IP/analog cameras on TV-out
Others	• Support I/O devices with up to 16 sensor inputs and 16 relay outputs • Task Scheduling on recording, detection and notification • Automatic database fix after abnormal shutdown • Support Microsoft Windows 7 / Vista / VAC, and 64 bit OS	• Support Daylight Saving and protect database from corruption due to time adjustment • Auto Windows & DVR log-in • HDD Failure Notification

All Specifications / colors are subject to change without notice. (V.03)