iVMS-4200 Client Software Technical Specification v1.02

Introduction

iVMS-4200 Client Software is a centralized video management software using a distributed structure for surveillance device control and management. The devices are connected to the network so that a centralized management is highly required. iVMS-4200 is designed to get access and provide management to the connected multiple devices, including DVR, NVR, DVS, network camera, and decoder. Using the client, you can easily live view the channels, record and store the file, remotely configure the device parameters, control PTZ, get alarm information and respond, and display video on the TV wall. With the help of other servers which are also components of the iVMS-4200, it can provide functions as easing the network load by using a stream media server, and using the storage server to store the record files and pictures. This client software can be adopted in many different surveillance scenarios with medium or small scale.

Components for iVMS-4200 Client Software:

● Client

The core component for the software package manages devices and other components of iVMS4200. It provides the management, playback, preview, TV wall, E-map function and etc. It is necessary for solution.

● Storage Server

Recording server, used for record files and pictures storage and backup.

● Encoding Server

Managing encoding card and provide network service, part of PC DVR solution.

● Decoding Server

Managing encode card and provide network service and decoding function.

● Stream Media Server

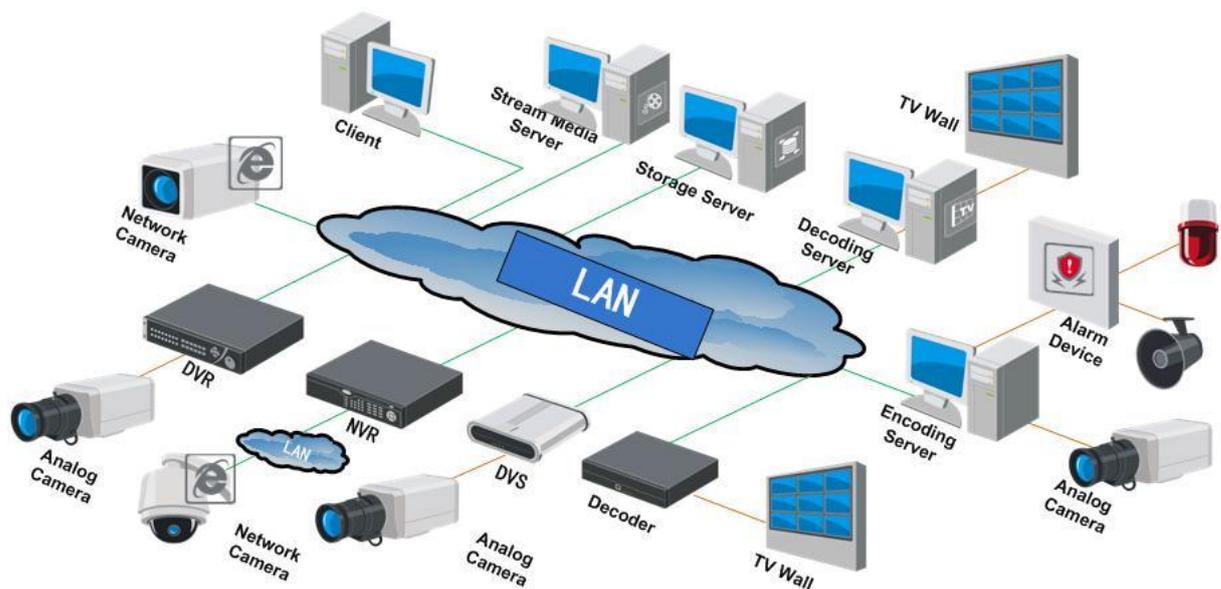Forwarding real-time video and audio stream and reducing network load of device.

Main Features

- All the published Hikvision devices are connectable, such as network cameras, DVR, DVS, decoder etc.
- Modularity servers provide scalable installation for different software modules;
- High-definition devices are supported.
- Friendly GUI for an easy operation.
- Grouping channels for unified management.
- Multi-level user management;
- Easy operation on alarm and event data;
- Configurable live view screen display and multiple screens live view is provided;
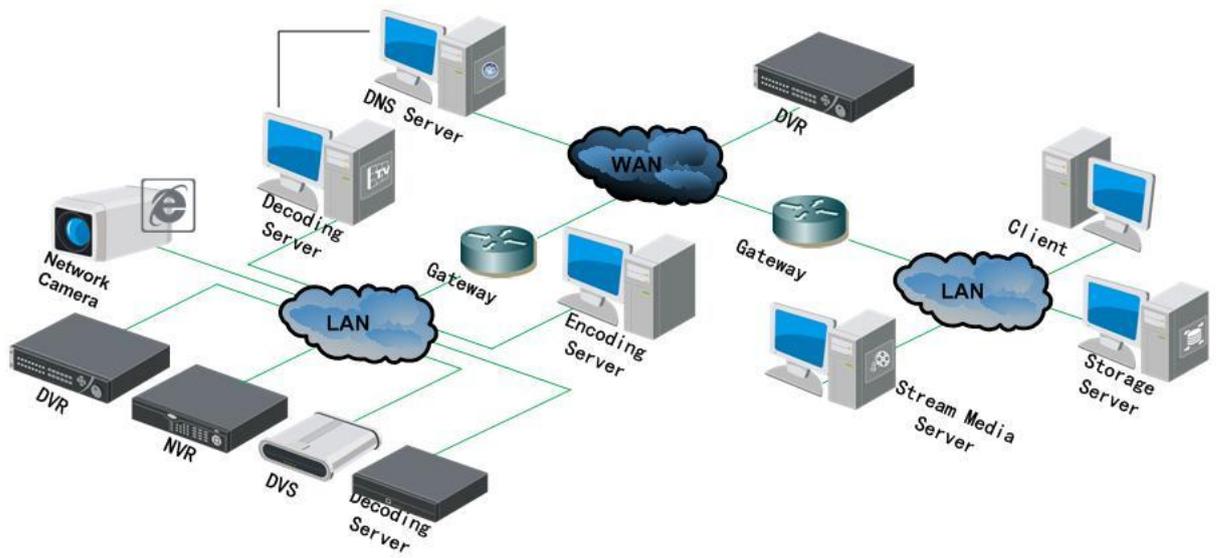- Playback record and pictures easy search and filter.

iVMS-4200 in Surveillance System

iVMS4200 Client Software can be applied to medium and small scale surveillance scenario via local area network or wide area network.

Topological diagram of surveillance system connecting to LAN:

T

Topological diagram of surveillance system connecting to WAN:

System Requirements

Modules	System requirement	
Client	Operating system	Microsoft windows xp/2003/2008/win7
	Database	SQLite
	CPU	Intel Pentium IV 3.0 or above
	Memory	2G or above
	VGA resolution	1024*768 or above
	Network	100M or above
Storage Server	Operating system	Microsoft windows xp/2003/2008/win7
	Database	SQLite
	CPU	Intel Pentium IV 2.4 or above
	Memory	2G or above
	Network	1000M or above
	HDD space	500GB or above
Encoding Server	Operating system	Windows2000/XP/2003/2008/win7
	Database	SQLite
	CPU	Intel Pentium IV 3.0 or above
	Memory	2G or above
	Network	100M or above
Decoding Server	Operating system	Windows2000/XP/2003/2008/win7
	Database	SQLite
	CPU	Intel Pentium IV 3.0 or above
	Memory	2G or above
	Network	100M or above
Stream Media Server	Operating system	Windows2003/2008/XP/win7
	CPU	Intel Pentium IV 3.0 or above
	Memory	2G or above
	Network	1000M or above
	HDD space	80G or above

Connection Capacity and Operating Performance of Each Module

Modules	Function	Maximum value
Client	Connectable devices	256
	Camera groups	256
	Connectable channels	1024
	Connectable NVR servers	8
	Users	50
	stream media servers	8
	Live view channels	64
	Multi-screens for main view	4
	Playback channels	16
	Synchronized Playback channels	4
	Connectable decoders (Including PC decoders)	64
	E-maps	256
Storage Server	Recording performance	64*2Mbps
	VoD performance	64*2Mbps
	Users	32
Decoding Server	Encoding channels	64
	Network accessing capacity	128
	Users	32
Decoding Server	Decoding channels	24(2Mbps)
	Matrix output channels	24
	Users	16
	Network access capacity	128
Stream Media Server	Stream (Including incoming and outputting stream)	200

Client Software Function Description

Functions	Description
Live View	Multi-screens for main view and screen can be separated by dragging the tab. Picture capture and real-time recording in live view mode; Digital Zoom; Channels can be managed by group; Cycling live view; Easy configuration of brightness, contrast, saturation and hue parameters; Record file and captured pictures are easily managed. Instant playback function enables the quick switch of the live view and playback; Two-way audio; Display status of supervisory place;
PTZ Control	Full-functional remote PTZ and lens control; 3D position; Preset setting and calling; Flexible patrol and pattern settings;
Record	Graphically recording schedule configuration; Variety of recording types(event and normal); Remote control the recording on the device side; Configurable recording schedule template; Distributed PC NVR deployment and management; Pre-allocate hard disk for recording;
Video Playback	Record files searching by channel, time and event; Fast forward play and single frame play; Resume function for disconnected video channels; Filter the search result by record types; Locate with processing bar exactly; Multi-screen playback simultaneously; Capture pictures when playback; Download data when playback; Clip record file when playback; Volume control during playback; Smart searching for the event record when playback.
User management	Client user of management; Channel-detailed permission control; Three user management levels ;

Functions	Description
Device management	Supports DVR/DVS/IPC/IP Dome/Decoder/NVR connection; Adding and deleting device and remote device parameters configuration; Search the active on-line devices; Device adding by domain name;
Log management	Client log query; Remote device log query and backup; Backup client logs; Check log files;
Alarm	Provide multiple alarm types, including HDD full alarm, HDD error alarm, video loss alarm, video tampering alarm, motion detection alarm, I/O alarm, server status abnormal alarm, etc.; Provide multiple alarm linkage actions, including linkage like decoding on TV wall, email linkage, etc.; Automatically arming for all devices; Filter according to alarm type;
Video Wall	Multiple output mode; Adding decoding streams by dragging mouse;
E-Map	Eagle view operation; Parent map and child map function to link the maps; Locate camera position by dragging channel icon. Alarm information and event image display on the map.
Others	Multi-screen display; Manual lock screen; Display system status(CPU, time) Configuration files import/export; Display information of channel;