

AddPac DVR Solution



DVR Solution

1	HD/SD IP Camera Solution for Indoor
3	Multiservice Video Codec Solution
5	HD Video Codec Solution
7	Error Robust HD Video Codec Solution
9	HD Box Camera Solution
11	HD Standalone NVR Solution

HD/SD IP Camera Solution for Indoor





AddPac Technology HD/SD IP cameras for indoor are optimized in high quality video surveillance and monitoring that can be used in various CCTV environments. It supports various video definition and optical zoom such as Full HD, HD, and SD. AddPac HD/SD IP camera is DSP based all-in-one encoding device which support optical zoom lens, PTZ feature, 1-port 10/100Mbps ethernet interface, 1-port audio input/output interface, and 2 port alarm & 1-port relay port. AddPac HD/SD IP cameras are compatible with various AddPac video solutions such as RTSP based multi-channel network DVR solution to build an efficient video communication environment.

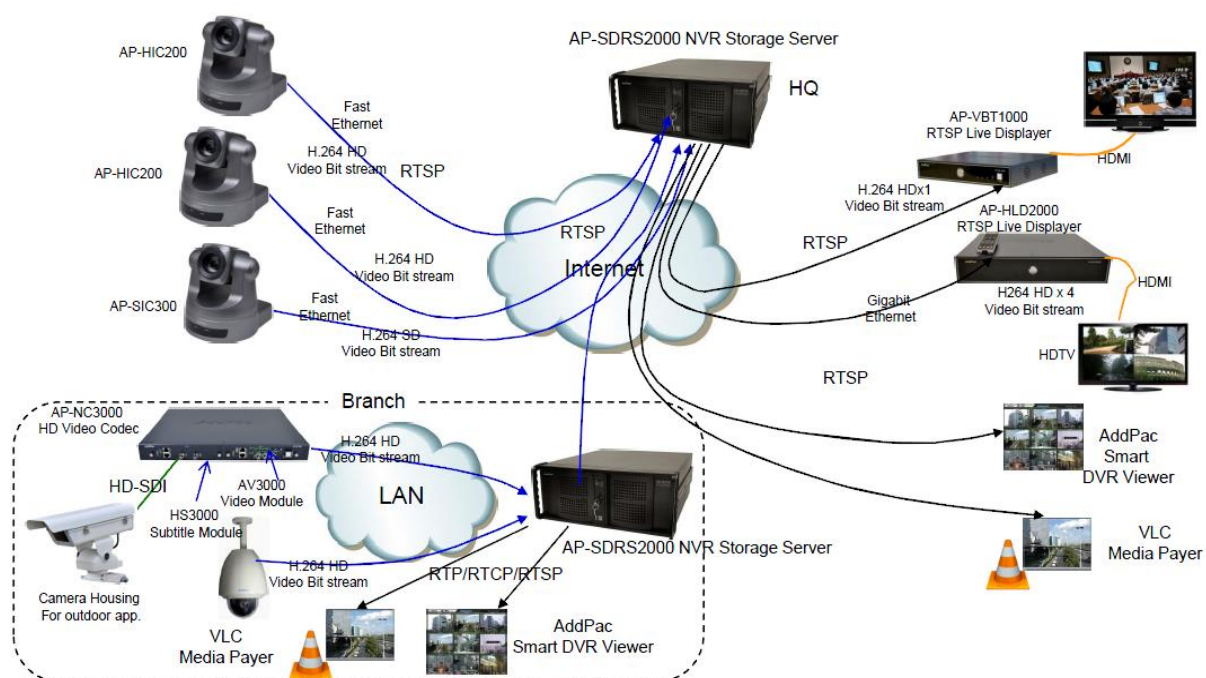
HD IP camera Comparison Table

Product	AP-HIC350	AP-HIC200
		
Sensor	CMOS	CCD
Optical Zoom	x20	x18
Video Resolution	1080p (1920x1080)	HD 720P(1280x720)
Network	10/100Mbps Fast Ethernet, RS232C	10/100Mbps Fast Ethernet, RS232C
PTZ Control	Support	Support
Audio In/Out	Support	Support
Local Backup for emergency	SD Card Slot	SD Card Slot
Power	External Power Adaptor	External Power Adaptor

SD IP camera Comparison Table

Product	AP-SIC300	AP-SIC200
		
Sensor	CCD	CCD
Optical Zoom	x37	x27
Video Resolution	SD (720x480)	SD (720x480)
Network	10/100Mbps Fast Ethernet, RS232C	10/100Mbps Fast Ethernet, RS232C
PTZ Control	Support	Support
Audio In/Out	Support	Support
Local Backup for emergency	SD Card Slot	SD Card Slot
Power	External Power Adaptor	External Power Adaptor

Network Diagram



Multiservice Video Codec Solution








AddPac multiservice video codecs like as AP-NC3800, AP-NC1500, AP-NC1200 are DSP based next generation high performance multi-channel D1/HD video encoder devices which allow installing various video/audio control modules. It is applicable to various real time fields, for instance, surveillance, traffic management, and environment surveillance. A popularity of IP based network DVR video device has been increasing as much as IP network based high performance video communication. AddPac multiservice video codecs are applicable to various fields such as surveillance, traffic management, and environment surveillance with various WAN environments including; xDSL fast cable, and leased line metro Ethernet. Especially, AP-NC3800 interworks with various video solutions such as DVR solution so that user may build an efficient large scale NDVR service environment. AddPac multiservice video codecs are designed to support various multi services such as D1 video encoder module, HD video encoder module (HD-SDI), built-in amp voice broadcasting module, subtitle module, and PAN/TILT control module. Especially, video encoder function, audio broadcasting function, and various supplementary services are all designed on the basis of module type to cope with user environment.

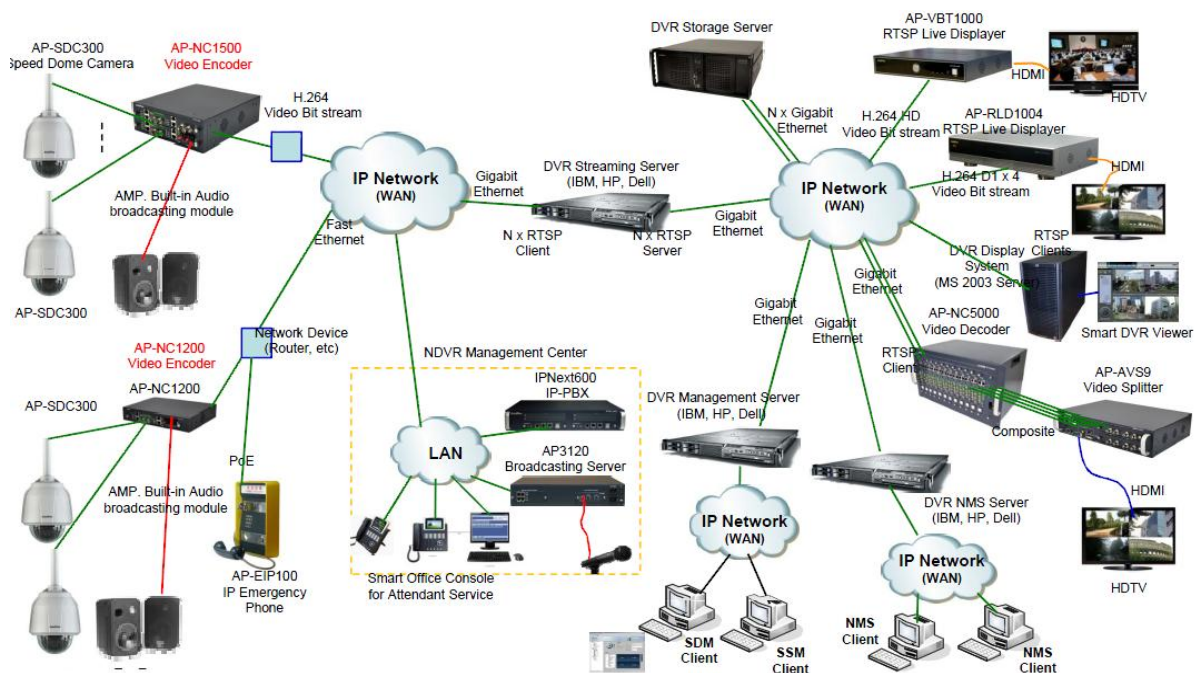
Multiservice Video Codec Comparison Table

Model	AP-NC1200	AP-NC1500	AP-NC3800
Module Slot	1 Module 2 Card Slot	2 Module 4 Card Slots	12 Module Slots
Max. Video Channel (AV1700N)	8 Channel Video Input	16 Channel Video Input	48 Channel Video Input
Power Supply	External DC Power Supply	Internal Power Module (AC)	Internal Power Module (AC) Dual Power Supply Module
Power Type	Power Adaptor	Built-In	Module Type

Video Modules for Multiservice Video Codec

AV1200N	One(1) Channel D1 Video Encoder Module(H.264 D1, CIF Dual Encoding)	
AV1500N	Two(2) Channel D1 Video Encoder Module(H.264 D1, CIF Dual Encoding)	
AV1700N	Four(4) Channel D1 Video Encoder Module(H.264 D1/CIF Encoding)	
AA1000N	AMP built-in Audio Broadcasting Module (G.711, G.726, etc)	
AS1000N	Analog Subtitle Generator Module (VIN, VOUT)	

Network Diagram








HD Video Codec Solution








AddPac HD video codecs for NDVR like as AP-NC5000 are next generation multichannel HD video encoder/decoder devices based on a high performance DSP. It can install multi-channel video module slot. It provides excellent performance for video application based on H.264 high quality HD including; video surveillance, traffic control, environment surveillance, and disaster prevention. The popularity of IP based network DVR video device has been increasing as much as high interest in IP network based high performance video communication. AddPac multi-channel HD Video Codec are applicable to video surveillance, traffic control, environment surveillance, and disaster prevention by combining with various WAN environments such as xDSL, cable, leased line, metro Ethernet. AddPac HD video codecs are compatible with various AddPac video solutions such as network DVR solution such as streaming server, recording server so that you may build an efficient HD video communication environment in accordance with the range of application or the range of field. AddPac HD video codec modules such as AV3000 HD video codec support video encoding based on cutting-edge H.264 codec concurrently. DSP is a programmable structure so that it is capable of improving, modifying, and adding new features constantly.

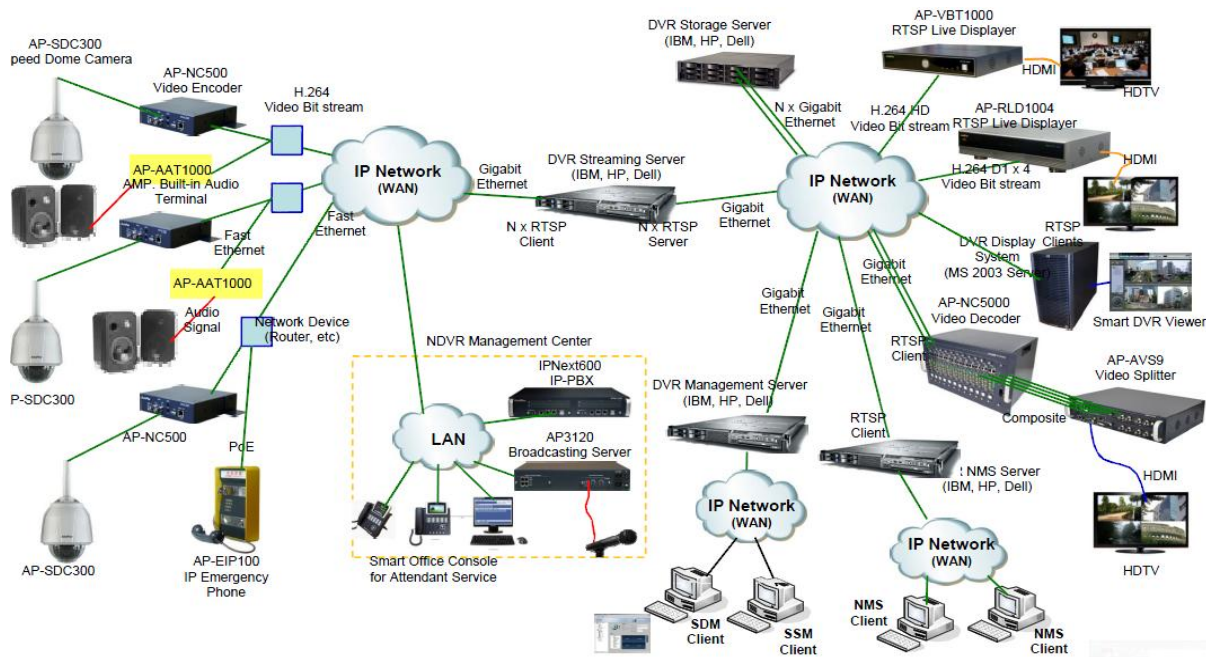
HD Video Codec Comparison Table

	AP-NC2000D	AP-NC2000	AP-NC3000	AP-NC3500	AP-NC5000
Model					
Module Slot	1 Module Slot	1 Module Slot	2 Module Slots	4 Module Slots	10 Module Slots
Power Supply	External Power Supply(DC)	Internal Power Module (AC)	Internal Power Module (AC)	Internal Power Module (AC)	Internal Power Module (AC)
Power Type	Power Adaptor	Built-In	Built-In	Module Type	Module Type

Video Modules for HD Video Codec

AV6000 Full HD Video Encoder Module (H.264 1080i, 720P Dual Encoding)	
AV3000 HD Video Encoder/Decoder Module (H.264 720P, D1 Dual Encoding)	
AV2000 D1 Video Encoder/Decoder Module (H.264 D1, CIF Dual Encoding)	
AV1800 D1 Video Decoder Module (H.264/MPEG4 D1 Decoding)	
HS3000 HD-SDI Subtitle Generator Module	

Network Diagram








Error Robust HD Video Codec Solution



H.264 SVC(scalable video coding) based HD video codecs for NDVR like as AP-NC5000 are next generation multichannel HD video encoder/decoder devices based on a high performance DSP. It can install multi-channel video codec module slots and can support error robust video transmission service using newly developed AV6000N Full HD video codec module. H.264 TD(temporal domain) SVC(Scalable Video Coding) based AV6000N error robust video codec module provides excellent performance for various video application such as video surveillance, traffic control, environment surveillance, and disaster prevention at especially wireless transmission environment(satellite, microwave, etc). Normally, scalable video coding scheme has strong advantage in error robust characteristic network. AV6000N supports the H.264 TD (Temporal Domain) SVC (scalable video coding) video codec function beside basic H.264 AVC video codec. AV6000N video codec module processes the 30 frames of 1080i, 720P (1280x720), D1 (720X480), CIF (325X288) images per second based on H.264 compressed codec standard in real time. A user may setup an appropriate frame rate and bit rate in accordance with quadruple video encoding function and network status. Quadruple video encoding function is designed to support primary channel full HD (1080i), secondary channel HD (720P), tertiary channel D1 (720X480), and CIF(352x288) concurrently. Also, dual video encoding (Full HD, HD), (Full HD, D1), (HD, D1) can be chosen. Full HD video encoder module of AV6000N supports HD-SDI, HDMI, analog video input and interwork with RS232C, RS422, and RS485 interfaces for PAN/TILT/Zoom camera remote control. Also, it supports gigabit ethernet interface and is designed to fit for next generation network environment. RTSP/RTP based transmission protocol and management function with Smart Web Manager can be main advantage of AV6000N video encoder module. For real time surveillance image, AddPac AP-NSPP (Network Surveillance Provision Platform) high performance network surveillance service solution is suitable and it opens a whole new world of high quality video image based on our performance and stability.

HD Video Codec Comparison Table

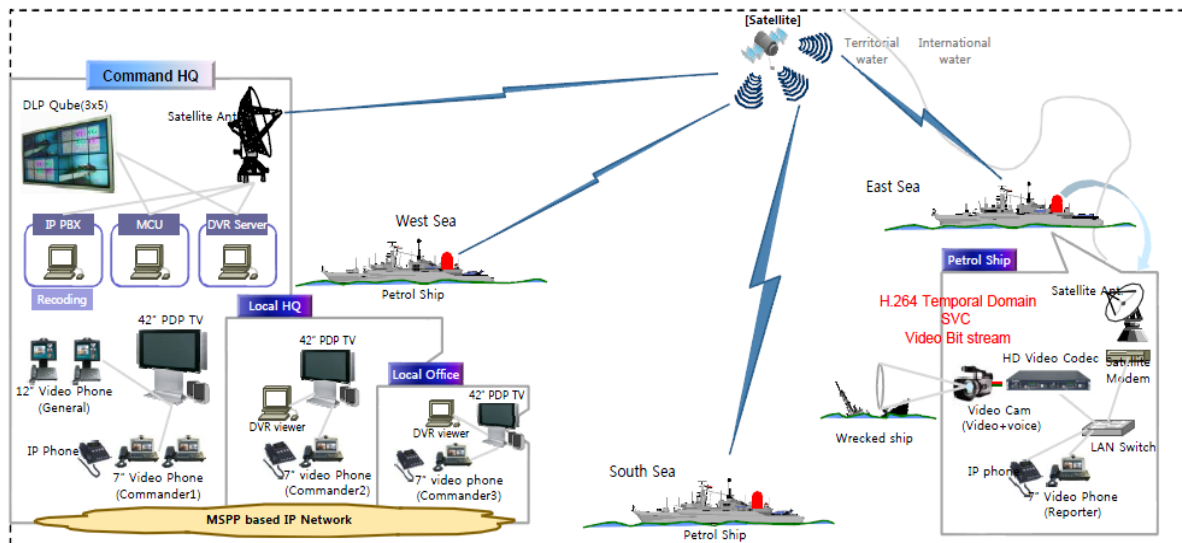
	AP-NC2000D	AP-NC2000	AP-NC3000	AP-NC3500	AP-NC5000
Model					
Module Slot	1 Module Slot	1 Module Slot	2 Module Slots	4 Module Slots	10 Module Slots
Power Supply	External Power Supply(DC)	Internal Power Module (AC)	Internal Power Module (AC)	Internal Power Module (AC)	Internal Power Module (AC)
Power Type	Power Adaptor	Built-In	Built-In	Module Type	Module Type

H.264 SVC(Scalable Video Coding) Video Codec Module

AV6000N Error Robust Full HD Video Codec Module (H.264 1080i, 720P Dual Encoding)



Network Diagram







HD Box Camera Solution

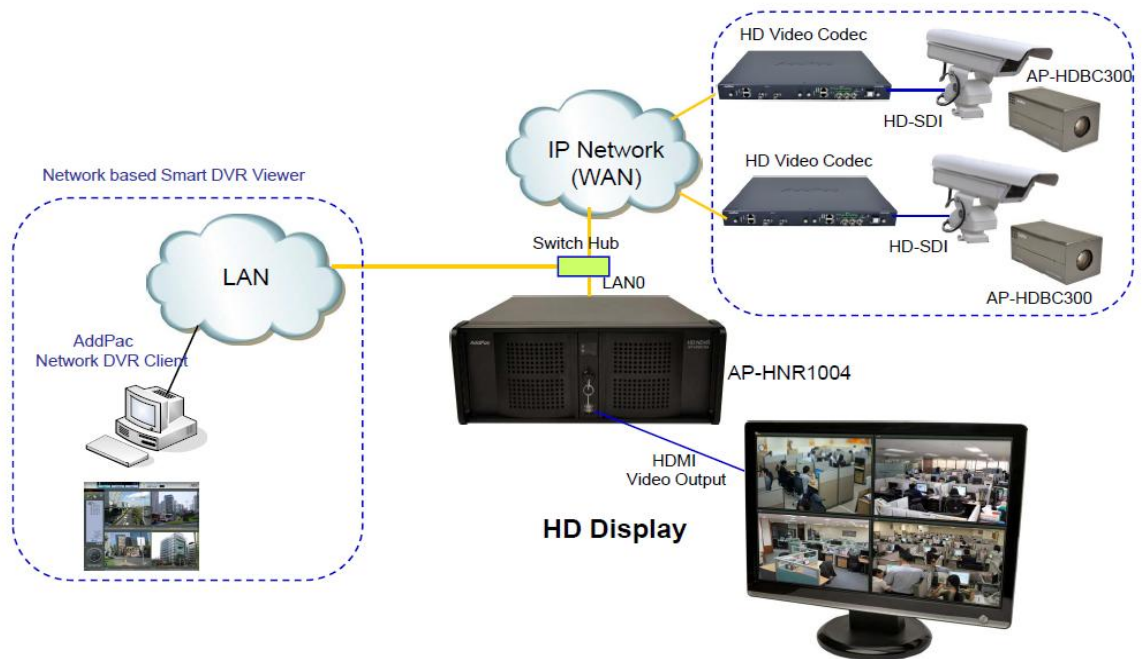


AddPac Technology CCTV HD Box Camera lineup is optimized in high quality HD-SDI based Full HD/HD video box camera that can be used in various CCTV environments. It supports various video definition and optical zoom such as Full HD, HD, and SD. Also, it is designed to support various CCTV environments via HD-SDI video interface.. AddPac Technology HD-SDI HD box camera supports camera control protocol through control interface such as RS232 or RS485. The popularity of IP based network DVR video device has been increasing as much as high interest in IP network based high performance video communication. AddPac HD Box Cameras are applicable to video surveillance, traffic control, environment surveillance, and disaster prevention by combining with AddPac HD Video Codecs.

HD Box Camera Comparison Table

Product	AP-HDBC50	AP-HDBC100	AP-HDBC200	AP-HDBC300
				
Sensor	CCD	CMOS	CCD	CMOS
Optical Zoom	N/A, CS Mount Zoom Lens	x10	x18	x20
Video Resolution	HD 720P(1280x720)	Full HD 720P, 1080i	HD 720P(1280x720)	Full HD 720P, 1080i, 1080p
Video Output	HD-SDI	HD-SDI	HD-SDI	HD-SDI
Camera Control	Support	Support	Support	Support
Camera Control Interface	RS232	RS485	RS485	RS485
Power	External Power Adaptor	External Power Adaptor	External Power Adaptor	External Power Adaptor

Network Diagram

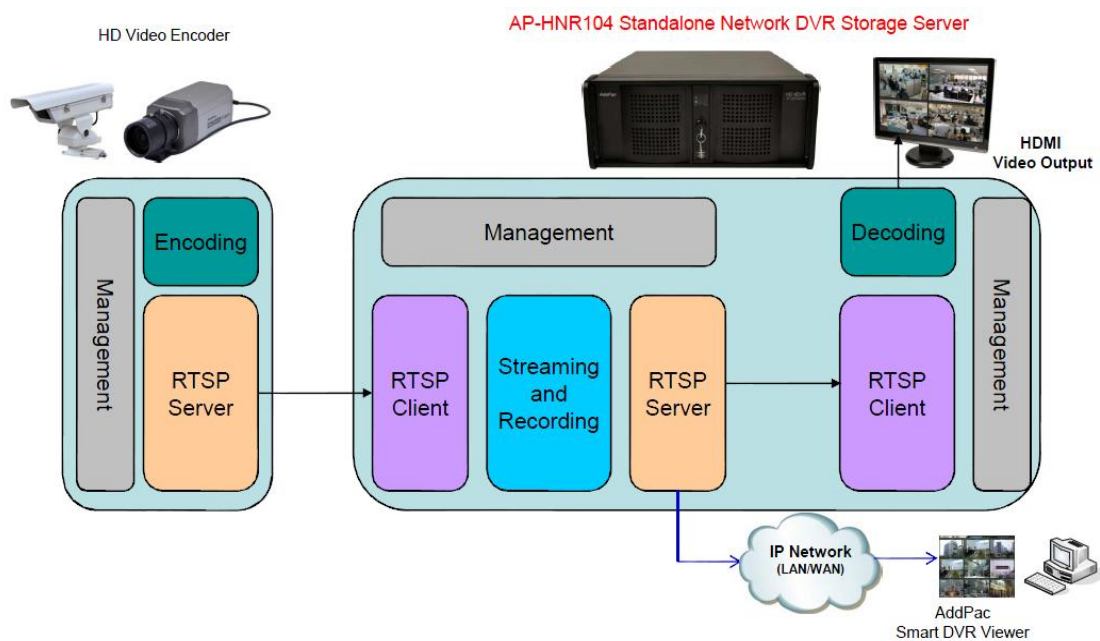


HD Standalone NVR Solution

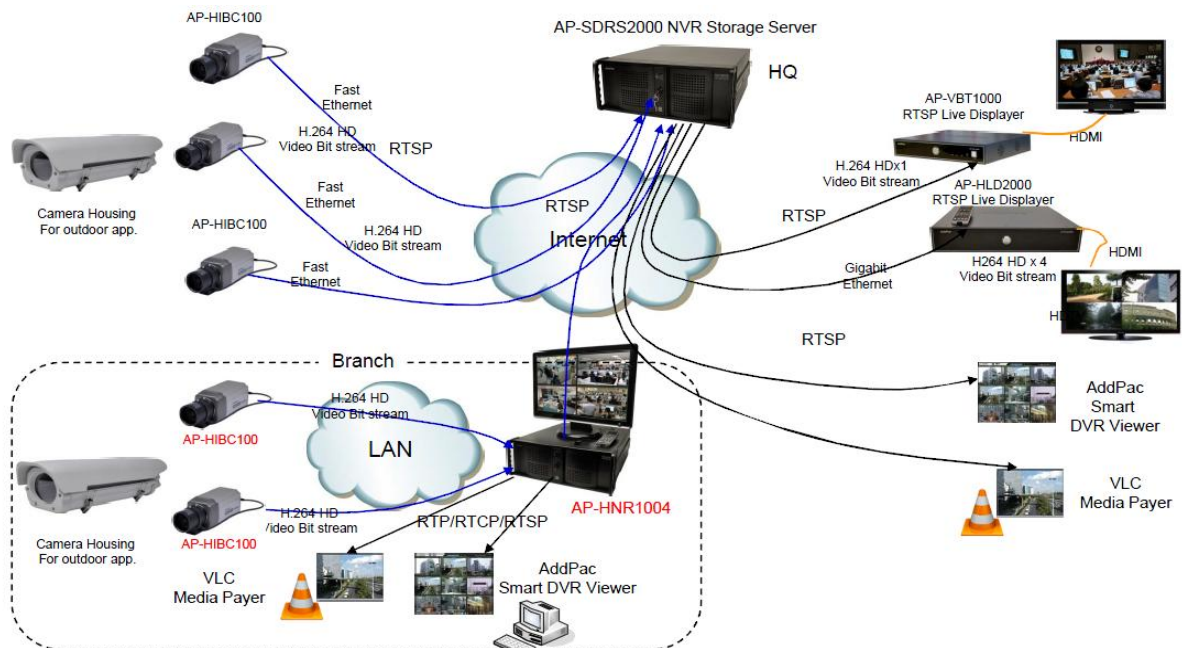


AddPac Technology enterprise HD NVR solution is composed of AP-HIBC100 HD IP Box camera, external camera housing, and all-in-one display HD video storage server AP-HNR1004 for network DVR. AP-HNR1004 is IP based high performance digital video recording/monitoring device. It is a H.264 based high performance standalone HD NDVR system server to monitor 4/8/12 channel HD video images by interworking with HD IP camera or video server. It is designed to support network based various application services with RTSP server feature. It is designed to install 1 port 10/100/1000Mbps Gigabit Ethernet interface, 4 SATA type 3.5inch hard disk, DVR writer for saved image backup, and multiport USB interface. It performs to save/display the multi channel HD/D1 video information based on RTSP protocol. AP-HIBC100 HD IP box camera is DSP based all-in-one HD encoding device that is designed to support 1 port 10/100Mbps Ethernet interface, 1 port audio input/output interface, 2 port Alarm & 1port relay port, and etc. User many install various types of zoom lens. It is applicable to various real time video transmission fields such as indoor/outdoor surveillance. It is applicable to various real time video application fields such as surveillance, traffic management, environment/disaster surveillance along with AddPac NVR solution.

Network DVR Solution (All in One)



Network Diagram



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