


NS7016 – Real Time Display & Recording

Embedded Linux Based MPEG4 Product Specification(Pentaplex)

Lineup		Watchdog	Two individual watchdogs (H/W & S/W)
Model Name	7016	Recovery	Automatic reboot by watchdog Automatic database recovery
Video (CH)	16	Motion Detection	
Audio(CH)	16	Sensitivity Control	3 Levels
Sensor/Alarm	16/4(TTL)	Cell Density	8 X 8
Recording(fps)	480/400	Alarm	
Video		Sensor input	16CH x NC or NO / Non-isolated HCMOS input, GND Common , 4.7k Ω pulled up to +5V.
Standard	NTSC / PAL	Alarm output	4CH x NC or NO / TTL
Input	16CH (0.5 ~ 2.0Vpp \pm 10% @75 Ω Unbalanced)	Storage	
Loop out	Automatic Termination	Internal	Max 4 x SATA HDD (Default-0)
Audio		Optical	1 x CD-RW or DVD-RW
Line Input	16CH Mono, < 1.7Vpp @25k Ω Unbalanced	USB(2.0)	4 PORT
Line Output	1 CH, Live or Playback	External HDD	Supported (USB 2.0) as Backup Devices
Display		I/O Ports	
Speed	Live (30 frame/ch)	Video	Video In 16 x BNC Video Loop 16 x BNC Composite out 1 x BNC
Screen split	1CH / 4CH / 9CH /13CH (POP)/ 16CH Screens	Audio	Line In 16 CH x RCA (mono) Line Out 1CH x 3.5mm Stereo Jack (mono)
Sequence Mode	Full-SEQ / QUAD-SEQ	Alarm	Sensor In 16CH x10 pin terminal block Alarm Out 4CH x 10 pin terminal block
PIP	Supported	System	VGA 1 x DB15 S-Video 1 x 4 Pin Mini DIN LAN 10/100 Base Ethernet USB 2.0 2 x Rear, 2 x Front RS230C 1 RS-485 1 PTZ RS-485 / Protocol(Pelco P/D Etc...) Preset(64)per CH, Preset SCAN(4)per CH
Digital Zoom	Supported, 2x	Other	Control K/B Supported Time Sync Supported(*SNTP) SystemUpgrade USB/Network USB Mouse Support(June,2008) Summer Time Supported Export, Import Supported
Recording		Electrical	
Video codec	Hardware MPEG-4	AC Input	100 ~ 240VAC/50 ~ 60Hz, Free Voltage
Audio codec	G.721	Power Consumption	< 90 Watt (< 180VA)
Resolution	NTSC : 360 x 240 / 720 x 240 / 720 x 480 PAL : 360 x 288 / 720 x 288 / 720 x 576	Environmental	
Size/frame	1 ~ 3 kB @360 x 240 / 360 x 288 2 ~ 6 kB @720 x 240 / 720 x 288 4 ~ 12 kB @720 x 480 / 720 x 576	Operating Temp.	+5 ~ +40 $^{\circ}$ C
Recording mode	Continuous / Schedule / Motion / Sensor / CBR Mirroring (External USB HDD)	Storage Temp.	-5 ~ +60 $^{\circ}$ C
Event Recording	Pre Rec(0 ~ 30 seconds),Post Rec(0 ~ 120 seconds) Intensive Rec [In case of recording for EVENT, EMERGENCY(MANUAL), change frame number And recording image quality]	Humidity	30 ~ 80%RH (non-condensing)
Recording Setup	Resolution, Image quality, Frame per Channel Independently setup available Max rec period setup : Max 99Days	Physical	
Search & Playback		Dimension (WxHxD)	430 x 88 x 435
Search Method	Date - Time / Calendar / Event & File / Instant Quick Search / First / Last	Weight (Net)	Appx.11kg (3x HDD, 1x DVD-R/W)
Search Speed	480fps(CIF Base),For multiple 16ch search, real time Playback per each channel available.	Accessories	
Max Search Speed	Max 128x	AC Power Cord	CEE7 Standard VII x 1 (250V/10A)
Screen Mode	1CH/4CH/9CH/16CH Partitioned	Rack mounting kit	2 x Guide, 6 x Screw (#6-32x5 FH)
Multiple Remote Surveillance		Options	
Network Type	Static/Dynamic/PPPOE / DDNS	Opt 01. HDD	HDD
DDNS	IP UPDATER/ DYNDNS.ORG Supported	Opt 02. CD-RW / DVD-RW	CD-RW or DVD-RW
Port Range	7620~7624(5Port, Changeable by Network Manager)	Drawing	
Bandwidth Control	Supported(64K~10MBPS / Unlimited)		
Access IP List	Supported(Max 10 Users)		
User ID Reg.	Supported(Max 5 Users)		
Remote Upgrade	Supported by CMS		
Support	CMS / Web CMS / CAMS(Optional)		
WEB Port	Supported(Default 80 Port)		
Multi Connection	Support multiple client (9 Users Simultaneously).		
Remote Control	Remote Setup / Search Supported etc		
Backup			
Storage support	CD/DVD-ROM,USB HDD, Flash Memory 2.0		
Auto Backup	Supported(External USB-HDD, Max 4 HDD)		
AVI Backup	From Client available		
Backup Viewer	Supported		
External CD/DVD	Supported(USB Type)		
System management			
Self Diagnosis Tool	Support for System Health Check Interface via CC(as optional solution at Monitoring center		

Professional & Networked Embedded Stand Alone DVR Series with Real Time Display & Recording (MPEG4,Pentaplex)



Product	Model No.	Specification
Embedded S/A DVR 120fps Recording	NS5004(4CH)	4CH Video Input / Output , 4CH Audio Input / 1CH Output 4CH Alarm Output / Alarm Output, Robust Network Solution etc.
	NS5009(9CH)	9CH Video Input / Output, 4CH Audio Input / 1CH Output 9CH Sensor Input / 4CH Alarm Output, Robust Network Solution etc.
	NS5016(16CH)	16CH Video Input / Output, 4CH Audio Input / 1CH Output 16CH Sensor Input / 4CH Alarm Output, Robust Network Solution etc.
Embedded S/A DVR 480fps Recording	NS7016(16CH)	16CH Video Input and Output, 16CH Audio Input and 1CH Output 16CH Alarm Output / 4CH Alarm Output, Robust Network Solution etc. Individual setting of Resolution, Image Quality, recording frame, Mirroring etc.

PENTAPLEX EMBEDDED LINUX BASED STANDALONE

The newest addition to DVR NS series featuring real time displaying and recording up to 16ch. Improvement in recording flexibility ensures efficient recording locally and remotely as well as increasing storage management. Intelligent central management with bi-directional audio communication dramatically brings the needs of large scale of the installation these days.

- MPEG4 compression technology and individual recording setting for 16ch cameras
- Maximum audio recording up to 16ch and bi-directional communication with CMS/CAMS.
- Digital matrix system with DVR keyboard control management
- Intelligent recording by intensive event recording with full cameras
- Different frame setting for each camera, Pre-alarm, Post-alarm recording
- Graphical user interface with mouse control
- Integrated with central monitoring solution (CAMS)
- Efficient storage management by data schedule backup to internal, external and network storage.

