

Network Video Recorder "PixelMASTER" 4K / 8MP Series





PIXEL MASTER

Plug and Play with **GANZ PixelPro**
IP Cameras with no configuration required



Features:

- Max. 4K @ 30 fps / Channel
- Up to 480 fps (16ch) / 240 fps (8ch) / 120 fps (4ch)
- Efficient H.264 compression
- Built-in PoE switching HUB
- Automatic router port forwarding
- Remote F/W upgrade
- 4K HD GUI
- Monitoring for fan failure and temperature
- HDD failure notification (S.M.A.R.T)
- Remote viewer : PC & web based remote agent, smartphone application



SPECIFICATION

Model		NR-4F81-4PA-V	NR-8F82-8PA-V
			
Channels		4ch	8ch
Monitoring	INPUT SIGNAL	4 x IP Camera (Max 4K)	8 x IP Camera (Max 4K)
	MAIN MONITOR	VGA / HD Display	
	MAIN MONITOR RESOLUTION	4k/30p / 1080p / 720p / SXGA	
	SPOT	-	
	MOTION DETECTION	Yes (From IP Camera)	
Audio	INPUT SIGNAL	-	
	OUTPUT SIGNAL	-	
	MICROPHONE	-	
	CODEC	-	
Recording	CODEC	H.264 (BP, MP, HP) /H.265 (on request)	
	REC. RATE	MAX. 30 FPS@4K / CH (Depend on IP Camera)	
	REC. RESOLUTION	MAX. 4K (Depend on IP Camera)	
Alarm I/O	ALARM IN	4 CH (IP) (Depend on IP Camera) / 2IN	8 CH (IP) (Depend on IP Camera) / 2IN
	ALARM OUT	4 CH (IP) (Depend on IP Camera) + 1 RELAY (Internal)	8 CH (IP) (Depend on IP Camera) + 1 RELAY (Internal)
STORAGE	INTERNAL HDD	1EA (SATA)	2EA (SATA)
	EXTERNAL STORAGE	-	
	INTERNAL ODD	-	
INTERFACES	USB	2 ports	
	RS-485	1	
	RS-232	-	
	LAN	4 (IP Camera, POE) + 1 (WAN)	8 (IP Camera, POE) + 1 Giga (WAN)
	REMOTE CONTROL	Yes	
HUB	NETWORK	-	
	TOTAL PoE POWER	-	
	MANAGEABLE by IPX	-	
	ADAPTOR	-	
ETC	WATCHDOG	Yes	
	COOLING FAN	1EA	
POWER	POWER SUPPLY	48V adaptor	
	POWER CONSUMPTION	7W	11W
ENVIRONMENT	TEMPERATURE	0°C ~ 40°C	
	HUMIDITY	10 ~ 90% NC	
CHASSIS	DIMENSION	1U	
	WEIGHT	1.55kg	2.52kg
CERTIFICATION	Type	FCC, CE, C-Tick	
	Display Rate	Up to 120fps/100fps (Realtime)	Up to 240fps/200fps (Realtime)
MONITORING	DECODING RATE	Max Total 60fps @ 4K	
	DISPLAY RESOLUTION	2160p / 1080p / 720p / SXGA	
	DISPLAY MODE	1,4	1,4,6,8
	SEQUECE	Programmable Sequence	
	DIGITAL ZOOM	Yes	
	COVERT	Yes	
	CAMERA COLOR CONTROL	Yes (CONTRAST, HUE, TINY, BRIGHTNESS) (Depend on IP Camera)	
	CAMERA IMAGE CONTROL	Yes (WHITE BALANCE, EXPOSURE, FLICKERLESS) (Depend on IP Camera)	
	AUDIO MONITORING	Yes (From IP Camera)	
	MICROPHONE	Yes (MIC to IP Camera)	
	PTZ CAMERA SUPPORT	Yes	
	SCHEDULE METHOD	DAILY / WEEKLY / EACH HOUR	
	PROGRAMMABLE FOR CH	Yes	
	RECORD TIME LIMIT	Yes	
EVENT RECORDING	Yes		
INTENSIVE RECORDING	Yes (MOTION / ALARM)		
PRE-EVENT RECORDING	0 / 1 / 2 / 3 / 4 / 5 / 10 / 15 SEC		
PANIC RECORDING	Yes		
SEARCH & PLAYBACK	DISPLAY MODE	1, 4, 9	1, 4, 9, 16
	PLAYBACK RATE	Up to 120FPS	Up to 240FPS
	PLAYBACK SPEED	x1, x2, x4, x16, x32, x64	
	CALENDAR SEARCH	Yes (2008/1/1 – 2035/12/31)	
	EVENT SEARCH	Yes	
	THUMBNAIL SEARCH	Yes	
	BOOKMARK SEARCH	Yes	
	INSTANT PLAYBACK	Yes	
	PLAYBACK ZOOM	Yes	
	SNAPSHOT	Yes (JPEG)	



SPECIFICATION

Model	NR-16F82-8PA-V (w/o external Hub NR-8P)	NR-16F85-8PRA (w/ external Hub NR-8P)	
			
Channels	16ch	16ch	
Monitoring	INPUT SIGNAL	16 x IP Camera (Max 4K)	
	MAIN MONITOR	VGA / HD Display	
	MAIN MONITOR RESOLUTION	4k/30p / 1080p / 720p / SXGA	
	SPOT	1	
MOTION DETECTION	Yes (From IP Camera)		
Audio	INPUT SIGNAL	-	
	OUTPUT SIGNAL	-	
	MICROPHONE	-	
	CODEC	G.711	
Recording	CODEC	H.264 (BP, MP, HP) / H.265 (on request)	
	REC. RATE	MAX. 30 FPS@ 4K/CH (Depend on IP Camera)	
	REC. RESOLUTION	MAX. 4k (Depend on IP Camera)	
Alarm I/O	ALARM IN	16 CH (IP) (Depend on IP Camera) / 2 IN	
	ALARM OUT	16 CH (IP) (Depend on IP Camera) + 1 RELAY (Internal)	
STORAGE	INTERNAL HDD	2EA (SATA)	
	EXTERNAL STORAGE	-	
	INTERNAL ODD	-	
INTERFACES	USB	2 ports	
	RS-485	1	
	RS-232	-	
	LAN	8 (IP Camera, POE) + 2Giga(WAN/LAN)	
	REMOTE CONTROL	Yes	
HUB	NETWORK	-	
	TOTAL PoE POWER	-	
	MANAGEABLE by IPX	-	
	ADAPTOR	-	
ETC	WATCHDOG	Yes	
	COOLING FAN	1EA	
POWER	POWER SUPPLY	48V adaptor	
	POWER CONSUMPTION	11W	
ENVIRONMENT	TEMPERATURE	0°C ~ 40°C	
	HUMIDITY	10 ~ 90% NC	
CHASSIS	DIMENSION	380(W) x 314.6(D) x 44(H)	
	WEIGHT	2.52kg	
CERTIFICATION	UL, CUL, FCC, CE	FCC, CE, C-Tick	
	DISPLAY RATE	Up to 480fps/400fps (Realtime)	
MONITORING	DECODING RATE	Max Total 120fps @ 4K	
	DISPLAY RESOLUTION	2160p / 1080p / 720p / SXGA	
	DISPLAY MODE	1, 4, 6, 8, 9, 16	
	SEQUENCE	Programmable Sequence	
	DIGITAL ZOOM	Yes	
	COVERT	Yes	
	CAMERA COLOR CONTROL	Yes (CONTRAST, HUE, TINY, BRIGHTNESS) (Depend on IP Camera)	
	CAMERA IMAGE CONTROL	Yes (WHITE BALANCE, EXPOSURE, FLICKERLESS) (Depend on IP Camera)	
	AUDIO MONITORING	Yes (From IP Camera)	
	MICROPHONE	Yes (MIC to IP Camera)	
	PTZ CAMERA SUPPORT	Yes	
	Recording	SCHEDULE METHOD	DAILY / WEEKLY / EACH HOUR
		PROGRAMMABLE FOR CH	Yes
RECORD TIME LIMIT		Yes	
EVENT RECORDING		Yes	
INTENSIVE RECORDING		Yes (MOTION / ALARM)	
PRE-EVENT RECORDING		0 / 1 / 2 / 3 / 4 / 5 / 10 / 15 SEC	
PANIC RECORDING		Yes	
SEARCH & PLAYBACK	DISPLAY MODE	1, 4, 9, 16	
	PLAYBACK RATE	Up to 480FPS	
	PLAYBACK SPEED	x1, x2, x4, x16, x32, x64	
	CALENDAR SEARCH	Yes	
	EVENT SEARCH	Yes	
	THUMBNAIL SEARCH	Yes	
	BOOKMARK SEARCH	Yes	
	INSTANT PLAYBACK	Yes	
PLAYBACK ZOOM	Yes		
SNAPSHOT	Yes (JPEG)		

SPECIFICATION



Model Name		NR-4F81-4PA-V	NR-8F82-8PA-V	
				
ARCHIVING	ARCHIVING DEVICES		USB Memory, FTP	
	REMOTE ARCHIVING		Yes (WEB RA, VMS, FTP)	
	SNAPSHOT ARCHIVING		Yes	
	DATA RESERVING		Yes	
	RESERVED DATA LIST MANAGEMENT		Yes	
	BACKUP DATA FORMAT		AVI, RAW	
	WATERMARK		MD5	
	ARCHIVED DATA PLAYBACK		Yes	
NETWORK	MAX. CONNECTIONS		32 USERS	
	DHCP		Yes	
	HTTPS		Yes	
	SSL		Yes	
	DDNS		Yes	
	TRANSMISSION RATE	MAX 120 fps(Depend on IP Camera)		MAX 240 fps (Depend on IP Camera)
	BANDWIDTH CONTROL		Yes	
	WEB BROWER ACCESS		Yes	
	REMOTE MONITORING		Yes	
	REMOTE PLAYBACK		Yes	
	REMOTE ARCHIVING		Yes	
	REMOTE HEALTH CHECK		Yes	
	VMS SUPPORT		Yes	
	ONVIF CAMERA SUPPORT		Yes (Profile-S)	
	TWO-WAY AUDIO		Yes	
	PC BASED REMOTE AGENT		Yes	
	SMART PHONE APPLICATION		Yes (iPhone, iPad, Android)	
	WEB BASED REMOTE AGENT		Yes	
	SDK		Yes (HTTP BASED SDK, PC Codec Library)	
	IP FILTERING		Yes	
	AUTO ROUTER PORT FORWARDING		Yes	
	DUAL STREAMING		Yes	
	FTP CLIENT		Yes (For ARCHIVING)	
	E-MAIL		Yes (SMTP CLIENT)	
	AUTHORITY CONTROL		ADMIN / MANAGER / USER	
	AUTO IP CAM INSTALLATION (PLUG AND DISPLAY)		Yes	
	PROTOCOLS	WS-Discovery, RTP, RTSP, RTCP,S MTP, NTP, HTTP, FTP, DDNS, DHCP, uPNP (Router Port Forwarding), HTTPS, SSL		
WIFI		-		
EVENT & ACTIONS	ALARM OUT		Yes	
	EVENT NOTIFICATION		Yes	
	VIDEO POPUP		Yes	
	ALARM SENSOR EVENT		Yes	
	VIDEO LOSS EVENT		Yes	
	MOTION DETECTION EVENT		Yes	
	MOTION SENSOR AREA		DEPEND ON IP CAMERA	
	DISK EVENT		Yes	
	SYSTEM EVENT		Yes	
	NETWORK EVENT		Yes	
STORAGE	DISK S.M.A.R.T CHECK		Yes (DEPEND ON HDD SPEC)	
	EXTERNAL STORAGE		Yes (eSATA, NAS (for Backup))	
	AUTO DISK RECOVERY		Yes	
	DELETING PARTIAL DATA		Yes	
USER	GROUP AUTHORITY		Yes (ADMIN / MANAGER / USER)	
ETC	OPERATING SYSTEM		LINUX®	
	F/W UPGRADE		Yes (USB / NETWORK)	
	SETUP IMPORT/EXPORT		Yes	
	KEYBOARD CONTROLLER		Yes	
	BACKUP VIEWER		Yes (Multi Channel Playback Support)	
	LANGUAGE		MULTI-LANGUAGE	
	VIDEOANALYTICS		Yes, in combination with 4MP PixelPro-Cameras	
DE-WARPING		-		

SPECIFICATION

Model Name		NR-16F82-8PA-V (w/o external Hub NR-8P)	NR-16F85-8PRA
			
ARCHIVING	ARCHIVING DEVICES		USB Memory, FTP
	REMOTE ARCHIVING		Yes (WEB RA, VMS, FTP)
	SNAPSHOT ARCHIVING		Yes
	DATA RESERVING		Yes
	RESERVED DATA LIST MANAGEMENT		Yes
	BACKUP DATA FORMAT		AVI, RAW
	WARTERMARK		MD5
	WARTERMARK VARIFICATION		Yes
	ARCHIVED DATA PLAYBACK		Yes
NETWORK	MAX. CONNECTIONS		32 USERS
	DHCP		Yes
	HTTPS		Yes
	SSL		Yes
	DDNS		Yes
	TRANSMISSTION RATE		MAX 480 fps (Depend on IP Camera)
	BANDWIDTH CONTROL		Yes
	WEB BROWER ACCESS		Yes
	REMOTE MONITORING		Yes
	REMOTE PLAYBACK		Yes
	REMOTE ARCHIVING		Yes
	REMOTE HEALTH CHECK		Yes
	VMS SUPPORT		Yes
	ONVIF CAMERA SUPPORT		Yes (Profile-S)
	TWO-WAY AUDIO		Yes
	PC BASED REMOTE AGENT		Yes
	SMART PHONE APPLICATION		Yes (iPhone, iPad, Android)
	WEB BASED REMOTE AGENT		Yes
	SDK		Yes (HTTP BASED SDK, PC Codec Library)
	IP FILTERING		Yes
	AUTO ROUTER PORT FORWARDING		Yes
	DUAL STREAMING		Yes
	FTP CLIENT		Yes (For ARCHIVING)
	E-MAIL		Yes (SMTP CLIENT)
	AUTHORITY CONTROL		ADMIN / MANAGER / USER
	AUTO IP CAM INSTALLATION (PLUG AND DISPLAY)		Yes
PROTOCOLS		WS-Discovery, RTP, RTSP, RTCP,S MTP, NTP, HTTP, FTP, DDNS, DHCP, uPNP(Router Port Forwarding), HTTPS, SSL	
WIFI		-	
EVENT & ACTIONS	ALARM OUT		Yes
	EVENT NOTIFICATION		Yes
	VIDEO POPUP		Yes
	ALARM SENSOR EVENT		Yes
	VIDEO LOSS EVENT		Yes
	MOTION DETECTION EVENT		Yes
	MOTION SENSOR AREA		DEPEND ON IP CAMERA
	DISK EVENT		Yes
	SYSTEM EVENT		Yes
	NETWORK EVENT		Yes
STORAGE	DISK S.M.A.R.T CHECK		Yes (DEPEND ON HDD SPEC)
	EXTERNAL STORAGE		Yes (eSATA, NAS (for Backup))
	AUTO DISK RECOVERY		Yes
	DELETING PARTIAL DATA		Yes
USER	GROUP AUTHORITY		Yes (ADMIN / MANAGER / USER)
	OPERATING SYSTEM		LINUX®
ETC	F/W UPGRADE		Yes (USB / NETWORK)
	SETUP IMPORT/EXPORT		Yes
	KEYBOARD CONTROLLER		Yes
	BACKUP VIEWER		Yes (Multi Channel Playback Support)
	LANGUAGE		MULTI-LANGUAGE
	VIDEOANALYTICS		Yes, in combination with 4MP PixelPro-Cameras
DE-WARPING		-	Yes, with ZN-F12F12-NL

OPTIONS

ACCESSORY

Model	NR-RM2	NR-8P
Typ	Rack Mount for NR16-F85	8ch External PoE Hub
		
Dimensions	W26.2 × H84.8 × D61 mm	W305 × H38 × D142 mm
Weight	123 g	940 g



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