



## 16 Channel 4K Embedded NVRs

# PIXEL MASTER NR-16F85-8PRA

### Features:

- Supports 4K Live display
- Up to 4K recording
- 3TB-20TB HDD
- Built-in PoE switching hub
- Automatic router port forwarding
- FW Upgradable by USB or network
- Supports P2P - network setup by QR code scan
- Network ports (WAN/LAN) - 1 each
- HDD failure notification (S.M.A.R.T)
- PC & web based remote agent, smartphone applications
- Plug and play PixelPro IP cameras with no configuration required



**CBC AMERICA**

## NR-16F85-8PRA

## 16 Channel 4K Embedded NVRs

### ■ Specifications

MODEL	NR-16F85-8PRA	
	Channels	16CH
VIDEO	Input Signal	16 x IP Camera (Max 8MP)
	Main Monitor	VGA or HD Display
	Main Monitor Resolution	2160p / 1080p / 720p / SXGA
	Spot	-
AUDIO	Motion Detection	Yes (From IP Camera)
	Input Signal	16 CH (From IP Camera)
	Output Signal	1CH
	Microphone	1CH
RECORDING	CODEC	G.711
	CODEC	H.264 / H.265
	Rec. Rate	Max. 30 FPS@8MP/CH (Depends on IP Camera)
ALARM I/O	Rec. Resolution	Max. 8MP (Depends on IP Camera)
	Alarm Input	16 CH (IP) + 2 CH (Internal) (Depends on IP Camera)
STORAGE	Alarm Out	16 CH (IP) + 1 RELAY (Internal) (Depends on IP Camera)
	Internal HDD	5 EA
INTERFACE	External Storage	YES (eSATA, NAS (for backup))
	Internal ODD	NONE
	USB	3 ports
	Interface	1 RS-485 / 1 RS-232
HUB	LAN	8 (IP Camera, PoE (802.3at)) + 1 (LAN) + 1 (WAN)
	Remote Control	YES
	Network	2GE + 8GE(PoE)
	Total PoE Power	72W
ADDITIONAL	Manageable by IPX	ARM9 interior
	Adaptor	48V, 96W
POWER	Watchdog	YES
	Cooling Fan	1EA
ENVIRONMENT	Power Supply	SMPS 12V 100W + SMPS 52V 100W
	Power Consumption	15W max. without HDD
CHASSIS	Temperature / Humidity	32°F~104°F (0°C ~ 40°C) / 10 ~ 90% NC
	Dimensions (mm)	2U - 16.9" x 14.4" x 3.5" (430 x 367 x 88.4mm)
CERTIFICATIONS	Weight	11 lbs. (5 Kg)
	UL, CUL, FCC, CE	UL, cUL, FCC, CE, KC, C-tick
MONITORING	Display Rate	Up to 480fps/400fps (Real-time)
	Decoding Rate	Max Total 120fps @ 8M
	Display Resolution	2160p / 1080p / 720p / SXGA
	Display Mode	1,4,8,9,16
	Sequence	Programmable Sequence
	Digital Zoom	YES
	Covert	YES
	Camera Color Control	Yes (Contrast, Hue, Tiny, Brightness) (Depending on IP Camera)
	Camera Image Control	Yes (White Balance, Exposure, Flickerless) Depending on IP Camera
	Audio Monitoring	Yes (From IP Camera)
RECORD	Microphone	Yes (MIC to IP Camera)
	PTZ Camera Support	YES (IP, RS485)
	Schedule Method	Daily/Weekly Each Hour
	Programmable For Ch	Yes
	Record Time Limit	Yes
	Event Recording	Yes
	Intensive Recording	Yes (Motion / Alarm)
SEARCH & PLAYBACK	Pre-Event Recording	0/1/2/3/4/5/10/15 Sec
	Panic Recording	Yes
	Display Mode	1,4,9,16
	Playback Rate	Up To 480FPs
	Playback Speed	X1, X2, X4, X16, X32, X64
	Type	Calendar / Event / Time / Thumbnail
	Playback Zoom	Yes
	Snapshot	Yes (JPEG)

All specifications are subject to change without notice.



## NR-16F85-8PRA

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### ■ Specifications

MODEL	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
	Watermark	MD5
	Watermark Verification	Yes
	Archived Data Playback	Yes
NETWORK	Max. Connections	32 Users
	DHCP	Yes
	HTTPS	Yes
	SSL	Yes
	DDNS	Yes
	Transmission Rate	MAX 480 FPS
	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	Dependant on IP Camera
	Disk Event	Yes
	System Event	Yes
Network Event	Yes	
STORAGE	Disk S.M.A.R.T Check	Yes (Dependant on HDD Spec)
	External Storage	Yes (eSATA, NAS (for Backup))
	Auto Disk Recovery	Yes
	Deleting Partial Data	Yes
USER	Group Authority	Yes (Admin / Manger / User)
	Operating System	LINUX®
ADDITIONAL	F/W Upgrade	Yes (USB / Network)
	Setup Import/Export	Yes
	Keyboard Controller	No
	Backup Viewer	Yes (Multi-channel Playback Support )
	Language	Multi-Language
	Video Analytics	Yes, in combination with 4MP Ganz PixelPro Cameras

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