PAR-P4DRIRA3312
4 Megapixel IP Plug & Play Outdoor Rugged Dome, 3.3-12mm Auto-Focused Motorized Lens, 98' IR Range, PoE/DC12V, CVBS Output, SD Card Slot

4 Megapixel Plug & Play	H. 265	True Day/Night
True WDR	3.3-12mm Auto-Focus Motorized	IR 98' Range
CVBS Output	TF Card Slot	Audio In/Out
IP66 Weather Resistant	PoE/DC12V	IK10 Vandal Resistant
Free App iOS & Android	FREE CMS	Free MAC Client Through NVR

Features

- 4 Megapixel (2592 x 1520) Resolution
- H.265/H.264/MJPEG Compression
- True Day/Night
- True WDR 120dB
- Motorized Auto-Focus Lens
- IR Range up to 98'
- CVBS Video Output
- TF Card Local Storage, 128GB
- Audio Input/Output
- IP66 Weather Resistant
- IK10 Vandal Resistant
- 12VDC/PoE
- Free iOS & Android Apps for Smart Phones & Tablets
- Free Central Management Software (CMS) to manage multiple units & sites from a single platform
- Free MAC client software available, through the Paramont NVR, to manage your system from your Apple computer

Mounting Options

IPM-DRPM1: Pendant Mount #1
Must be used with IPM-JB3

IPM-JB3
Junction Box #3

IPM-DRWM1: Wall Mount #1
Must be used with IPM-JB3

IPM-DRWM3
Wall Mount #3

Camera

Camera	
Image Sensor	1/3" CMOS
Image Size	2688 x 1520
Electronic Shutter	1/25s ~ 1/100000s
Auto Iris	Fixed Iris
Min Illumination	0.05 Lux @ F1.2, AGC On; 0 Lux with IR
Lens	3.3-12mm @ F1.4, Angle of View: 80° ~ 38°
Lens Mount	Ø14
True Day/Night	ICR
Wide Dynamic Range	120dB
BLC	Yes
HLC	Yes
Defogging	Yes
Digital NR	2D/3D DNR
Angle Adjustment	Pan: 0°~360°, Tilt: 0°~77°, Rotation: 0°~360°

Image	
Video Compression	H.265/H.264/MJPEG
H.265 Compression Standard	Main Profile @ Level 4.1 High Tier
Resolution	4 MP (2592 x 1520), 2K (2560 x 1440), 3 MP (2304 x 1296), 1080p (1920x1080), 720p (1280x720), D1, CIF, 480x240
Main Stream	60Hz/30 FPS: 4MP, 2K, 3 MP, 1080p, 720p | 50Hz/25 FPS: 4MP, 2K, 3MP, 1080p, 720p
Bit Rate	64Kbps ~ 10Mbps
Encode Mode	VBR/CBR
Quality	Five Levels Under VBR; Freely adjustable under CBR
Image Settings	ROI, Saturation, Brightness, Chroma, Contrast, Wide Dynamic, Sharpen, NR: Adjustable through client software or web browser
Audio Compression	G.711A/U
ROI	Each ROI to be configured separately

Interfaces	
Network	RJ45
Audio	MIC-in x 1, MIC-out x 1
Video Output	CVBS Video Output (BNC x 1)
Storage Card	Support TF Card, Up to 128GB
RS485	Yes
Alarm Input	1 Channel
Alarm Output	1 Channel

Functions	
Remote Monitoring	IE Browsing, CMS Remote Control
Online Connection	Supports simultaneous monitoring for up to 10-users; Support multi-stream real-time transmission
Network Protocol	TCP/IP, UDP, DHCP, UPnP, NTP, RTSP, PPPoE, DDNS, SMTP, FTP
Interface Protocol	ONVIF, GB-T/28181-2011
Storage	TF Card Local Storage, Network Remote Storage
Smart Alarm	Motion Alarm, Sensor Alarm
PoE	Yes
IR Distance	98 Feet
Environmental	IP66 Weather Resistant
Housing	IK10 Vandal Resistant

Other	
Power Supply	DC12V/PoE
Power Consumption	<2.5W
IR Consumption	<5W
Operating Environment	-4° ~ 122°F (-20° ~ 50°C), 10-90% Humidity
Dimensions	Ø 5.9 x 4.48 Inches (150x114mm)
Weight	2.27lbs (1030g)

Ordering Information
PAR-P4DRIRA3312: 4 Megapixel Auto-Focus Motorized Dome, 3.3-12mm

4 MEGAPIXEL PLUG & PLAY

PAR-P8BIRA3312

8 Megapixel IP Plug & Play Outdoor Bullet 3.3-12mm Auto-Focus Motorized, 164' IR Range, PoE/DC12V, CVBS Output, SD Card Slot

Features

- 8 Megapixel (3840 x 2160) Resolution
- Motorized Auto-Focus 3.3-12mm Lens
- H.265/H.264/MJPEG Compression
- True Day/Night
- 30 FPS Recording and Live
- D-WDR
- Motorized Auto-Focus Lens
- IR Range up to 164'
- CVBS Video Output
- TF Card Local Storage, 128GB
- Audio Input/Output
- IP66 Weather Resistant
- 12VDC/PoE Operation
- ONVIF
- Free iOS & Android Apps for Smart Phones & Tablets
- Free Central Management Software (CMS) to manage multiple units & sites from a single platform
- Free MAC client software available, through the Paramont NVR, to manage your system from your Apple computer

Camera	
Image Sensor	1/2.5" CMOS
Image Size	3840 x 2160
Electronic Shutter	1/25s ~ 1/100000s
Auto Iris	Fixed Iris
Min Illumination	0.01 Lux @ F1.2, AGC On; 0 Lux with IR
Lens	3.3-12mm @ F1.4, Angle of View: 97.5° ~ 38.5°
Lens Mount	Ø14
True Day/Night	ICR
Wide Dynamic Range	Digital WDR
BLC	Yes
HLC	Yes
Defogging	Yes
Digital NR	2D/3D DNR
Angle Adjustment	Any Angle
Image	
Video Compression	H.265/H.264/MJPEG
H.265 Compression Standard	Main Profile @ Level 4.1 High Tier
Resolution	8MP (3840 x 2160), 1080p (1920x1080), 720p (1280x720), D1, CIF, 480x240
Main Stream	60Hz/30FPS: 8MP, 1080p, 720p 50Hz/25 FPS: 8MP, 1080p, 720p
Bit Rate	64Kbps ~ 16Mbps
Encode Mode	VBR/CBR
Quality	Five Levels Under VBR; Freely adjustable under CBR
Image Settings	ROI, Saturation, Brightness, Chroma, Contrast, Wide Dynamic, Sharpen, NR: Adjustable through client software or web browser
Audio Compression	G.711A/U
ROI	Each ROI to be configured separately
Interfaces	
Network	RJ45
Audio	MIC-in x 1, MIC-out x 1
Video Output	CVBS Video Output (BNC x 1)
Storage Card	Support TF Card, Up to 128GB
RS485	Yes
Alarm Input	1 Channel
Alarm Output	1 Channel
Functions	
Remote Monitoring	IE Browsing, Firefox, CMS Remote Control
Online Connection	Supports simultaneous monitoring for up to 10-users; Support multi-stream real-time transmission
Network Protocol	TCP/IP, UDP, DHCP, UPnP, NTP, RTSP, PPPoE, DDNS, SMTP, FTP
Interface Protocol	ONVIF, GB-T/28181-2011
Storage	TF Card Local Storage, Network Remote Storage
Smart Alarm	Motion Alarm, Sensor Alarm
Smart Analysis	Object removal detection, line-crossing detection and intrusion detection
PTZ	RS485 x 1
PoE	Yes
IR Distance	164 Feet
Environmental	IP66 Weather Resistant
Other	
Power Supply	DC12V/PoE
Power Consumption	<4.5W
IR Consumption	<8W
Operating Environment	-4° ~ 122°F (-20° ~ 50°C), 10-90% Humidity
Dimensions	Ø 4.29 x 11.18 Inches (109x284mm)
Weight	2.45 lbs (1115g)

Mounting Options

IPM-BULLETPENDENT: Pendent Mount Kit
Includes IPM-JB2, IPM-DRPM1, IPM-ADAPTER1

IPM-JB1
Junction Box #1

IPM-JB2
Junction Box #2
Must use with IPM-ADAPTER1

IPM-ADAPTER1
Adapter #1

IPM-DRPM1: Pendent Mount #1
Must be used with IPM-JB1 or IPM-JB2

Ordering Information

PAR-P8BIRA3312: 8 Megapixel Motorized Auto-Focus Bullet, 3.3-12mm

PN1A-8X8
8 Channel NVR with 8 Plug & Play Ports

8 Plug & Play PoE Ports	5 Megapixel	ONVIF
HDMI 1080p with 4K Monitor Support	VGA Main Monitor	P2P Connectivity
Thumbnail Search	H. 265	Free App iOS & Android
FREE CMS	Free MAC Client	

Standard Features

- 8 Plug & Play Ports for easy camera setup PoE (Power Over Ethernet) available on all ports
- Up to 5 Megapixel Resolution Recording
- 64 Mbps Bit Rate Input
- Supports up to 8 channel simultaneous playback
- Works with ONVIF or other supported IP cameras
- Local HDMI main monitor output with 4K Support
- Local VGA main monitor output up to 1080p
- True P2P Connectivity
- Multiple video search options including Thumbnail Search for quick retrieval of footage.
- H.265 video compression
- Free iOS & Android Apps for Smart Phones & Tablets
- Free Central Management Software (CMS) to manage multiple units & sites from a single platform
- Free MAC client software to easily manage your system from your Apple computer

System	
Compression	Standard H.265
OS	Embedded Linux
Video	
Network Input	8 Ch IPC Input - 8 PnP PoE Ports
Network Access Bandwidth	64Mbps
Network Access Format	5MP, 4 MP, 3 MP, 1080p, 960p, 720 @25, 30 FPS
Output	HDMI x 1: 4K / 2K / 1920x1080 / 1280x1024 VGA x 1: 1920x1080 / 1280 x 1024
Audio	
Network Input	8 Ch IPC Audio Input
2-Way Audio	RCA x 1
Local Output	RCA x 1
Record	
Record Stream	Dual Stream Recording
Resolution	5MP, 4 MP, 3 MP, 1080p, 960p, 720p
Mode	Manual, Timer, Motion, Sensor
Playback	
Simultaneous Play-back	8 Channel
Search	Thumbnail, Time, Event, Tag Search
Function	Play, Pause, FF, FB, Digital Zoom, etc. up to 32x
Alarm	
Mode	Manual, Sensor, Motion, Exception
Input	Support IPC Alarm Input
Output	Support IPC Alarm Output
Triggering	Record, Snap, Preset, E-mail, etc
Network	
Interface	RJ45 10 /100MBps x 1
Protocol	TCP/Ip, PPPoE, DHCP, DNS, DDNS, UPnP, NTP, SMTP
Web Client	Max 10 Users Online
Mobile Device	
OS	iOS, Android
Storage	
HDD	SATA x 1, Max 6 TB per HDD
Backup	
Local Backup	USB, USB Mobile HDD
Network Backup	Yes
Port	
USB	USB 2.0 x 2 (One on the front panel and the other on the rear panel)
Remote Controller	Yes
Other	
Power Supply	DC48V
Consumption	< 5W (Without HDD)
Dimensions	11.81 x 10.62 x 2.16 Inches (300 x 270 x 55mm)
Work Environment	14°~122° F (-10° ~ 50°C)

Ordering Information
PN1A-8X8/2T: 8 Ch, 8 PnP Ports, 2 TB
PN1A-8X8/4T: 8 Ch, 8 PnP Ports, 4 TB
PN1A-8X8/6T: 8 Ch, 8 PnP Ports, 6TB

PARAMONT IP

UN1A-4X4 4 Channel NVR with 4 Plug & Play Ports

Plug & Play 4 Plug & Play Ports	PoE 4 PoE Ports	Up to 6 Megapixel	30 FPS	ONVIF	HDMI 1080p	VGA Main Monitor
Front Panel Controls	Bandwidth Optimization	Arming Schedule	Digital Zoom	Smart Search	NAS | SAN	uPnP Router Setup
Remote Backup	Substream	Remote Preview	Multi-Browser	2-Way Audio	VCA	Free App iOS & Android
FREE CMS	Free MAC Client					

UN1A-4X4 Features

- Connect up to 4 IP cameras in any combination with no special licenses required
  - 'Hands Free' Plug-and-Play cameras on the 4 built-in PoE ports
  - Power cameras with up to 30W each (802.3af PoE) from a total of 50W built in PoE power
- Stream an aggregate bandwidth to the NVR of up to 40Mb/s from all connected cameras
- Choose up to 8Tb of internal HDD storage, or record to external NAS/SAN

Standard UN1A Features

- Onvif or other supported IP cameras* (*See list of manufacturers/models)
- Select camera resolutions up to 6MP
- Local HDMI/VGA monitor displays at up to 1920x1080
- Employ digital zoom in both live view and playback for expanded view of fine details
- Record based on schedule: Continuous, Motion, Event, Alarm, Combinations, None
- Easy to use on-screen menus include digital zoom and instant playback of recent video
  - Operate using front panel controls, wheel mouse or optional IR remote
- Quickly locate and review event video
  - Search by date/time, or preview images by pointing along a color coded timeline of record type
  - Play based on results of extensive event/alarm log search
  - Search for VCA events such as line crossing or area intrusion (requires compatible cameras)
  - Use "Smart Search" to define an area of interest; the NVR quickly reviews recorded video to list instances of motion in that area for review by the operator
- Optional arming schedule for action/notifications and alarms (e.g. ignore on-camera motion from specific cameras during normal business hours)

- View, record and play main stream for detail, or sub-stream to conserve bandwidth and CPU resources
- System automatically conserves resources by selecting sub-stream during multiple camera viewing
- User selectable viewing optimization for image detail/fluency or motion
- Choose up to 12Tb of internal HDD storage, or record to external NAS/SAN
- Option to enable pass thru access from LAN/WAN to cameras or to isolate camera network from LAN/WAN for increased security
- Easy remote access: view NVR over Internet without programming router: built-in uPnP router NAT/port mapping forwards ports automatically (*Router must support/permit uPnP function)
- Your choice of IE, Firefox or Safari browsers to view live or playback video, or to manage NVR
- Unique Channel 0 remote stream displays user defined multi-view in the bandwidth of a single channel
- View multiple live/playback video streams on Android/iOS apps, or get HD viewing from tablet specific app
- Free Windows and MAC CMS Client for up to 64 live/4 playback views, manage and back up multiple sites
- Two way audio support (compatible camera required) from NVR, web screens and CMS
- Compact desktop chassis

Ordering Information
UN1A-4X4/2T: 4 Ch, 4 PnP, 2 TB
UN1A-4X4/4T: 4 Ch, 4 PnP, 4 TB
UN1A-4X4/6T: 4 Ch, 4 PnP, 6 TB
UN1A-4X4/8T: 4 Ch, 4 PnP, 8 TB

ULTRA IP

UN1A-4X4 4 Channel NVR with 4 Plug & Play Ports

Streaming Video Inputs & Recording	
Maximum Number of IP Cameras	4
Number of built in PnP/PoE Switch Ports	4
Supported Live View/ Record Resolutions	6MP / 5MP / 3MP / 1080P / UXGA / 720P / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF
Sub-stream	Supported for recording, playback and live viewing
Audio streaming	Supported from audio capable cameras
Maximum FPS rate per camera (Live and Record)	30FPS Main stream; 30FPS Sub-stream Up to 120FPS total for 4 cameras
Maximum Record Streaming Video Input Bandwidth (all cameras combined)	40 Mb/s
Recording Compression	Depends on IP Camera; typically H.264 for main stream, MJPEG for sub-stream, H.264+
Recording Modes	Continuous, Motion, Alarm, Motion+Alarm, Motion or Alarm, Event, None
Motion & VCA Detection	Camera Side, configurable from NVR for compatible series cameras
Schedule Period	Per day in 1 hour blocks; or 8 time periods per day, each with different record mode; plus holidays
Pre- and Post- Event Recording	Pre-record 0~30 seconds; post record 5s~10 minutes
Built in network switch port speed	10/100 Mb/s each port
'Hands free Plug and Play' Cameras Fully Supported	Any Ultra-IP models (IPCAM protocol). See camera datasheets for details
Third Party Cameras Supported (requires traditional configuration and setup)	Onvif; Acti, Arecont, Axis, Bosch, Brickcom, Canon, Hikvision, Hunt, Panasonic, Pelco, PSIA, Samsung, Sanyo, Sony, Vivotek, Zavio
Local Live Presentation of Streaming Video/Audio	
Local Display Main Monitor Outputs	HDMI 60Hz: 1920×1080, 1600×1200, 1280×1024, 1280×720, 1024×768 VGA 60Hz: 1920×1080P, 1600×1200, 1280×1024, 1280×720, 1024×768
Camera Display Layouts	1, 2x2
Automatic Stream Selection	Single camera view and 720p 2x2 at main stream resolution; Automatic switching to sub-stream resolution in other multi-view displays to conserve CPU capacity and maintain parity between per-camera screen area and image size
Audio Output (requires audio equipped cameras)	1-ch Line Level, RCA (Linear, 1KΩ)
Playback of Recorded Video/Audio	
Supported Playback Resolutions	6MP / 5MP / 3MP / 1080P / UXGA / 720P / VGA / 4CIF / DCIF / 2CIF / CIF / QCIF
Nominal Local Playback Capability	4 channels 1080p (actual playback depends on decoding load which varies based on settings for recorded video bandwidth restrictions, resolution, image quality, FPS rate, compression efficiency, and complexity of pixel change in the scene) 4 Ch 720p, 1 ch @ 6mp
Playback search modes	Time/Date; Manual Tags; Smart Search for motion events from recorded video; Event (Motion/Alarm/VCA)
Playback Controls	Play; Pause; Forward/Reverse; speed control for single~1.8~xMax (256x) Slide bar with overview of record type and snapshot display from slider position
Digital Zoom During Playback	Supported on Local Displays and CMS
Local Hard Drives and Other Storage	
Number of Internal Hard Drives	1 SATA HDD; up to 8TB
S.M.A.R.T	With extensive statistics, alarms, on demand tests and reporting
Record to	HDD, NAS or SAN
Archive to	USB
Local Plug and Play Camera Network Support	
Integral PoE Switch	4 ports 10/100 Mb/s
Camera Network Security	Option to enable pass thru access from LAN/WAN to cameras or to isolate camera network from LAN/WAN for increased security
PoE Type	802.3at 30W max per port
Total Power Budget	50W all ports
PnP Network Support	Integral DHCP function with address-per-port initial assignment (Using InVid Tech Ultra-IP Series cameras connected to internal PnP PoE switch ports)
Remote Viewing and Local/Remote Configuration	
Built in Web Server Interface	Live view, playback and configuration via IE, Firefox, Safari (with free plug-in/extension installed)
CMS	PC and MAC Client supports multiple device viewing, playback (with digital zoom) and configuration; user rights per camera; E-map support; live view up to 64 cameras in 4:3 and 48 cameras in 16:9; up to 4 cameras in playback
Mobile Apps	iOS and Android supported up to 16; 4 camera playback; snapshots from live or play; copy clips/record to smartphone; audio support; PTZ control. HD version of app, optimized for tablets, is available
User Rights Control	Per user-per camera for multiple functions
Event Logging	Multiple types: alarm, exception, operation, information; dozens of sub-types within each major type
Firmware Upgrade	From USB or remotely
Backup/Restore Configuration	For NVR settings and for IP Camera settings; from USB or remotely
Network and Other Interfaces	
LAN/WAN Network Port	One 10/100/1000Mb/s RJ-45 port
Connection of non-PnP IP cameras	Supported
Remote Monitoring Output Maximum Bandwidth	80Mb/s
Maximum number of remote connections	32
DST/NTP	Supported; choice of time zone, NTP server, DST start/end/offset
Port Mapping/uPnP	Automatic port forwarding/redirection using uPnP on routers with this capability
Serial Interfaces	1xRS-485
USB Interfaces	1 USB2.0 front; 1 USB 3.0 rear
Audio Input	1 RCA (2VP-P, 1KΩ)
General Mechanical and Environmental	
Power Input	12VDC from included external power supply
Continuous Power Consumption	67W including PoE
Operating Temperature	14°F ~ 131°F (-10°C ~ +55°C)
Operating Humidity Range	10% ~ 90%
Cooling Fan	1
Size	12.4" x 9.1" x 1.8" (315 x 230 x 45mm)
Weight (without hard drives or ODD)	3.3lb (1.5Kg) NVR only allow ~1.4 lb. per HDD
Certifications	FCC, CE, RoHS

ULTRA