

NEW

OTAi
always innovative

Outdoor Video surveillance Redefined

Upto 20 kms with Integrated Antenna
←
Upto 100 kms* with External Antenna

HD Video



Passive PoE Source
12-24Vdc

802.3af/at complied

Power + Data

pluto  **vision**

High Performance Outdoor AP/CPE with 3af PoE Output

- High TX Power (26dBm)
- Wide Input PoE Power Range (12-24Vdc)
- 3af Complied PoE Out port with Detection
- Direct DC Power (12-48 V) (optional)
- Integrated Solar Powered (optional)
- Connect upto 4 IP camera per AP/CPE (optional)

Pluto vision is an Enterprise outdoor specially designed with integrated 3af PoE out port. Fully complied 3af PoE out port is ready to offer power and data (10/100 base T) to any PoE device. It's just plug and play premium quality high gain integrated antenna ensures stable long distance point to point link or point to multipoint links.

Pluto vision is a unique product, the first access point to have PoE in and PoE out Ports. PoE out port is fully complied to 802.3af standards with detection function. Any 3af complied PoE device like IP Camera / IP Phone / Base Station / Access Point can be connected to this port. Both the device can operate on single power source making the installation simple and cost effective.

Pluto vision has many applications in the remote fields where additional Power & Data are required by another remote device. PoE out port can be used as redundant LAN port or addition Plug & Play LAN connectivity to remote devices used for SCADA applications in Defense, Oil & Gas and Power Distribution.

Non PoE remote devices can be connected to the network using Onnet PoE Splitter. PoE Splitter extends data and power separately to the device with Power options of 5 / 7.5 / 9 / 12Vdc.

Pluto vision has wide operating PoE power range from 12V / 24Vdc.

The device can also be customized to operate directly from the battery bank of 12V / 24Vdc or 48Vdc.

Pluto vision offers wide choice of high gain premium quality integrated MIMO antenna with single and dual polarization. Right selection of antenna gain ensures best stability and high throughput.

Pluto vision can be used to establish P-P link upto 20kms with integrated antenna supporting both 2.4GHz and 5.8GHz frequency band. The range can be extended upto 100kms * with suitable external antenna.

Flexible, high-capacity architecture

Pluto vision offers Wide Choice of integrated antenna for flexible outdoor wireless deployments using the 2.199 – 2.499 GHz or 4.9GHz- 6.1GHz frequency band including 2.4GHz and 5.8GHz ISM band.

The device can be configured as AP / Client / Client Bridge / Mesh Repeater for WiFi Applications or as a point to point, point to multi-point and full mesh backhaul.

Intelligent wireless mesh routing

Integrated OTAi mesh OS, adaptive wireless OSLRD (optional) / STATIC routing technology supported by spanning tree protocol automatically optimizes traffic routes between wireless mesh routers and creates a truly adaptive mesh infrastructure.

The mesh infrastructure adjusts dynamically to traffic levels and RF signal strength to ensure high availability and optimal performance.

Seamless Mobility

Advanced algorithm of quick RF routing and bridging capabilities of OTAi software allows Wi-Fi clients to move between wireless mesh routers in very less time (within Threshold time) maintaining a seamless connection for latency-sensitive applications, such as video and voice.

HD-quality video

Full Scale user friendly QoS with traffic shaping Presets, HD-quality video from mobile and fixed surveillance cameras, monitors and recording systems can be easily transported over Wireless network on Real time Basis, Say up to 30 frames per second

Advance Network Features

Other Advanced Network features Include VLAN Tagging, Firewall, NAT, Qos And Bandwidth management. The advance routing offers operating modes like Gateway / BGP / RIP2 & OSLR. (PPTP, L2TP, PPPoE) Server / Client & STATIC IP routing options. Unique DHCP for warding option for fast Roaming, Authentication via captive portal, Integrated HotSpot Clients Like Sputnik / Chilli Spots / HOTSPOT SYSTEM, (-96) RX Sensitive, STP protocols put the Pluto on the TOP of the Index when compared with similar products available In market.





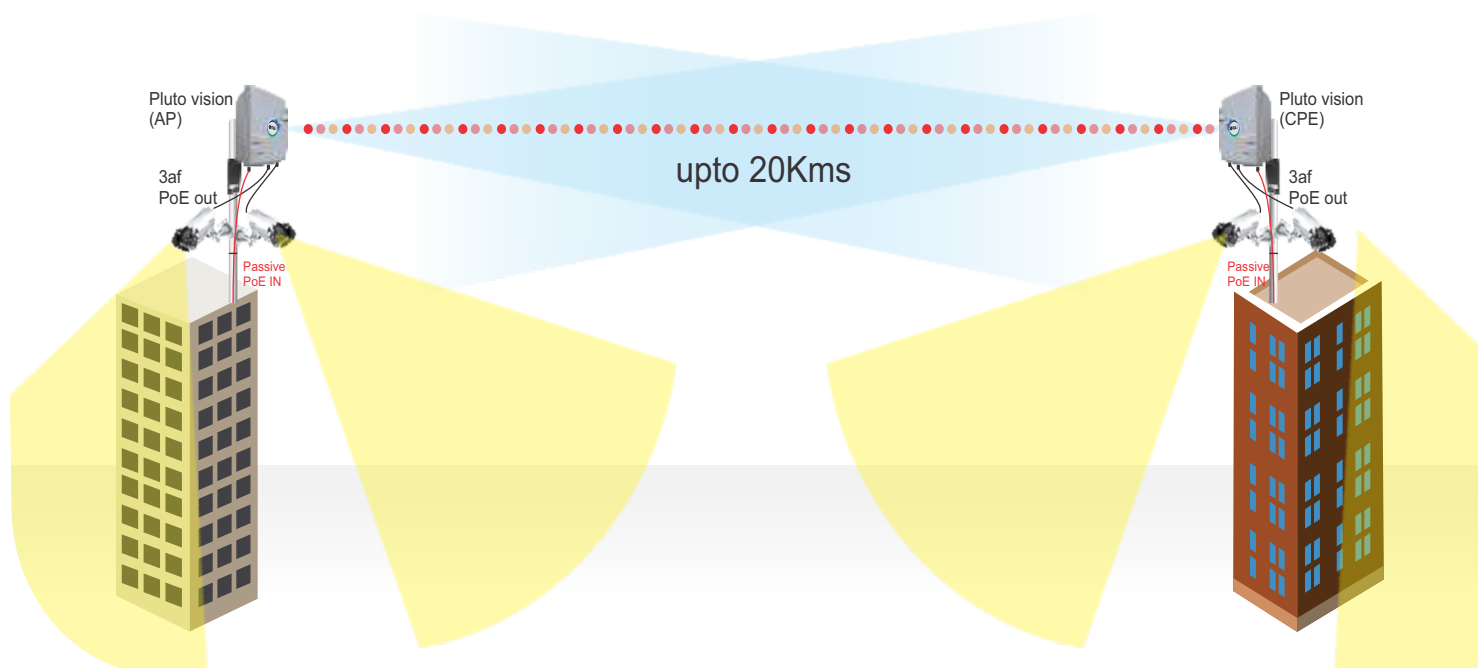
World's 1st
Outdoor
AP / CPE with
3af PoE out

Power to Connect

Pluto vision has very strong applications for transporting heavy VIDEO traffic along with Voice & Data over long distance. Pluto vision can play key role while designing cost effective and reliable outdoor surveillance projects like large Housing Campus / Collage Campus / Sports Stadiums / Constructions Sites / Mines / Oil Fields / Airports / Golf clubs / Resorts / Traffic Monitoring etc..

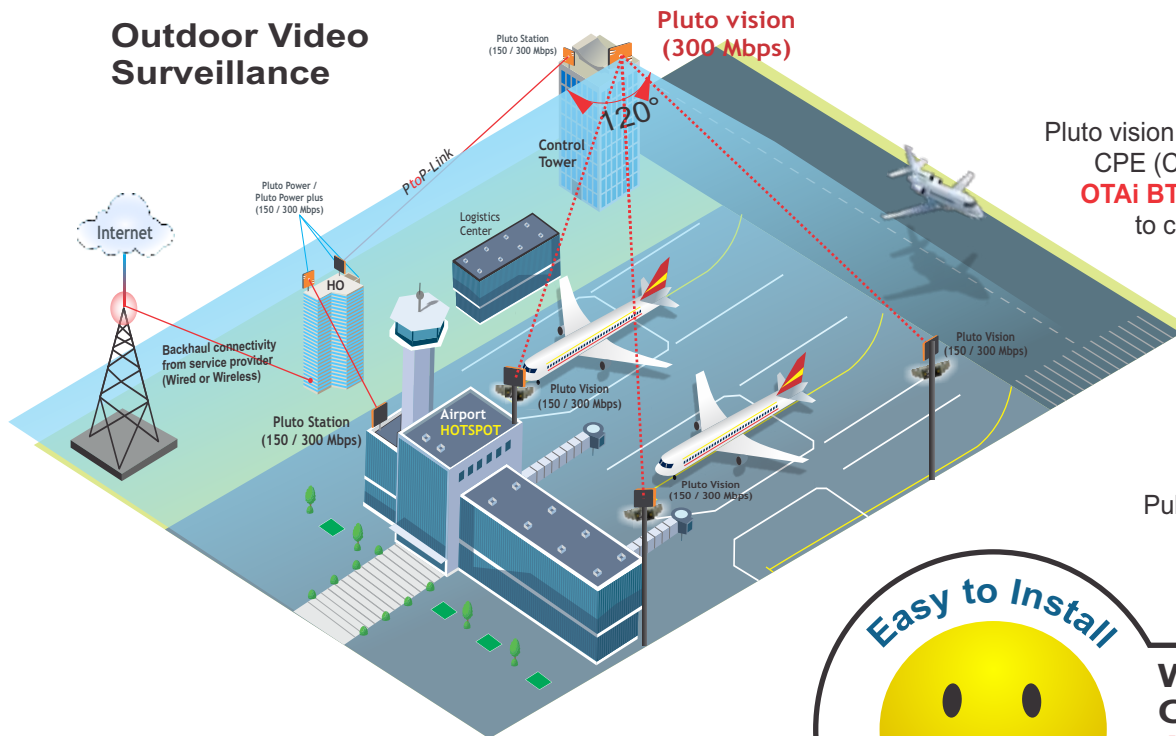
1) Remote Video & Data Monitoring (Point to Point Application)

Two Pluto vision can be bridged as Point to Point wireless link up to 20Kms with high performance integrated antenna and up to 100Kms* with external high gain antenna. Devices like HD and Mega pixel IP camera, Remote Sensors, Weather Station, & SCADA Devices with real time applications can be connected from large distance to the control station when caballing or other cost effective communication options are not available. Quick deployment and stable connectivity are the key advantage of this devices. The network can be relocated or reestablished very easily and cost effectively.



2) Wide Area Multipoint Video Network (BTS & CPE Application)

Outdoor Video Surveillance



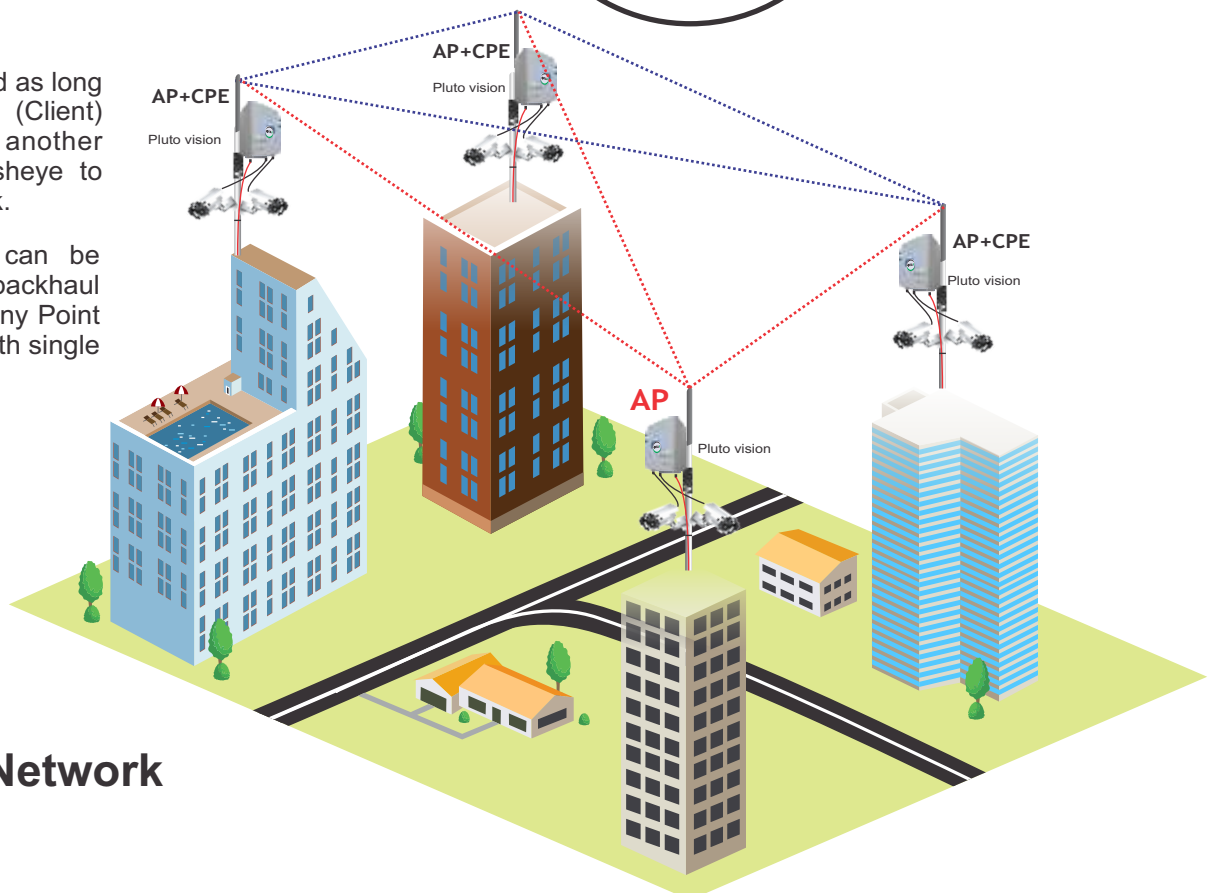
Pluto vision can be used as Remote CPE (Client) in conjunction with **OTAi BTS max** or **Pluto fisheye** to create wide area wireless surveillance network for Golf Club, Airports, Education Campus, Construction Sites, Highway, Forest Post, Defense Post, Border Posts, Oil Fields, Mines, Marine Posts, Sensitive Public Areas & many more.



3) Any Point to Any Point & WISP Network

Pluto vision can be used as long distance Remote CPE (Client) and cascaded with another OTAi BTS or Pluto fisheye to extend wireless network.

Multiple Pluto vision can be cascaded with one backhaul Pluto vision to create Any Point to Any Point network with single PoE power source.



MESH Network

Model	Pluto vision
Chipset	Atheros AR7240 (400 MHz) Network Processor
Flash	8M
SDRAM	32M
Frequency Band	<ul style="list-style-type: none"> • 2.400 GHz (ISM BAND) • 5.800 GHz (ISM BAND) • 2.199 GHz - 2.499GHz (Extended Frequency Band) • 4.900 GHz -6.100 GHz (Extended Frequency Band)
Tx Power	26dBm \pm 2 , Adjustable.

Operation Mode	AP, Client, Client Bridge, WDS Station , WDS AP , MESH Repeater
Standards	802.11a/n or b/g/n access point for Client access or CPE 802.11a/n or b/g/n mesh router for backhaul Ethernet: IEEE 802.3/u (10/100BaseT)
Data Modulation	BPSK, QPSK, CCK & QAM 64 (OFDM),
Data Rate	A)1T 1R , 150 Mbps Max
802.11n (HT) High-Throughput	HT 20/40

Interfaces	
Data	2 x 10/100BaseT Ethernet Port Auto MDI/MDIX,
Power (PoE) PoE In	12V - 24V Passive PoE , RJ 45 Power Pins : 4,5(+ve) & 7,8 (-ve)
PoE Out	12V - 24V Passive PoE or 80.2 3af / at Complied (PoE out max 24W)
Power	14W (Max consumption)
Watchdog Timer	Software / Hardware / Temperature
Wireless Users	Max : 254 Recommended : 64

Router Specifications	Basic Network Platform TCP/IP protocol suite
Networking	NAT/PAT, DHCP server, relay, client, VLANs Support for HTTP, HTTPS, SSH, Telnet, SNMP V2 (Read Only Excess), NTP Server & Client
Security	64/128/ 256 bit WEP, WPA, WPA2,RADIUS and 802.1x encryption Mode For Wireless Network MAC and IP address filtering, Access control list
Band Width Management	Per IP/protocol/subnet/port, CBQ, RED, SFQ, byte limited queue, packet limited queue
Tunnels	PPTP, EoIP (Ethernet over IP) Multicasting support (beta available)
Bridging	Spanning tree protocol, multiple bridge interfaces, bridge firewall
QoS	Full Scale QOS with traffic shaping and user friendly Presets .
DNS Client / Server	Name resolving for local use, Dynamic DNS Client
Multiple SSID	Offers Virtual AP support with multiple SSID & individual encryption and IP address/ DHCP
HotSpot	Built-in HotSpot Clients (Sputnik / Chilli Spots / HotSpot System) Plus PPPoE Server / Client

Operating Temperature	(-40°)C - (70°)C
Storage	(-20)% - (90)%
Humidity	5%~98% non-condensing
Weather Rating	IP 67
Wind Survivability	Up to 165 mph
Mounting	Mast /Pole mounting (Aluminum , Light Weight, non-corrosive)



Model Options And Order Codes

Order Code	Frequency	Antenna type				Enclosure Size	Max Data Rate	Recommend Distance For Best Throughput
		Gain	Polarisation	Hplane	Vplane			
PV 2414 SP	2.4-2.5	14	SP-Panel	38	38	185x185x56mm	150Mbps	00-06 Kms P-P Distance
PV 2416 SPEX	2.199-2.499	16	SP-Panel	30	30	270x270x75mm	150Mbps	00-10 Kms P-P Distance
PV 2400 NF	2.4-2.5	24	24dbi External Andrew Antenna	as per manufacturer	as per manufacturer	270x270x75mm	150Mbps	00-25 Kms P-P Distance
PV 5016 SPEX	4.900-6.100	16	SP-Panel	30	30	270x270x75mm	150Mbps	00-06 Kms P-P Distance
PV 5019 SP	5.1-5.9	19	SP-Panel	20	20	185x185x56mm	150Mbps	00-12 Kms P-P Distance
PV 5021 SP	5.1-5.9	21	SP-Panel	15	15	270x270x75mm	150Mbps	00-16 Kms P-P Distance
PV 5023 SPEX	4.900-6.100	23	SP-Panel	11	11	385x385x80mm	150Mbps	03-20 Kms P-P Distance
PV 5000 NF	5.1-5.9	29	29dbi External Solid State Dish Antenna	06	06	270x270x75mm	150Mbps	05-40 Kms P-P Distance0
PV 5000 NF	5.1-5.9	16	16dbi External Omni Antenna	360	15	270x270x75mm	150Mbps	00-04 Kms P-MP Distance
PV 2400 NF	2.4-2.5	16	16dbi External Omni Antenna	360	15	270x270x75mm	150Mbps	00-04 Kms P-MP Distance

Configurations are subject to change without notice.

