

Portable Adaptive Surveillance System (PASS)

Portable and rapid setup of IP video surveillance has never been simpler with the introduction of the PASS system. PASS allows a user to place CCTV, thermal cameras, and/or illuminators throughout a building, facility, campus, or military/commercial installation. Environmentally resistant Video Audio Data Network (VADN) nodes are then distributed throughout the area to create an IP video and data infrastructure. The VADN nodes which are interconnected via standard cabling or wireless links collect video, audio and data signals and transport them to a Surveillance Base Station (SBS). The surveillance base station provides IP video viewing, PTZ camera control, illuminator control, bi-directional audio, motion detection, DVR, and alarm notification with video clips and snapshots. A fixed mountable VADN is also available for more permanent surveillance applications.



Video Audio Data Network (VADN) Nodes



Surveillance Base Station Display



PASS System Description:

S4 Tech is pleased to introduce its Portable Adaptable Surveillance System (PASS). The PASS system consists of several modules and has been designed to be portable, rugged, modular, cost effective, easy to install in the field, and easy to maintain. The modularity of the system based on distributed VADN nodes, allows for various camera and cabling and wireless configurations to be readily implemented. The ruggedness of the system, especially its temperature and dust resistance and high degree of power filtering and surge protection allow the system to function in harsh environments and from generator power. The PASS system utilizes MPEG4 digital compression to efficiently transmit video across its network infrastructure making it very scalable to add more cameras or more nodes. Included in the system is video management software capable of providing simultaneous viewing of all cameras and remote control of all PTZ cameras. The video manager also provides motion detection with visual/audible alarms, digital video storage, archiving, alarm logs with video clips and snapshots, and replay capabilities. Remote control of relays can be used to remotely turn on/off control devices such as illuminators and siren alarms in the field. The PASS system also includes audio capabilities allowing the user to connect an intercom, microphone, or loudspeaker at a target location.

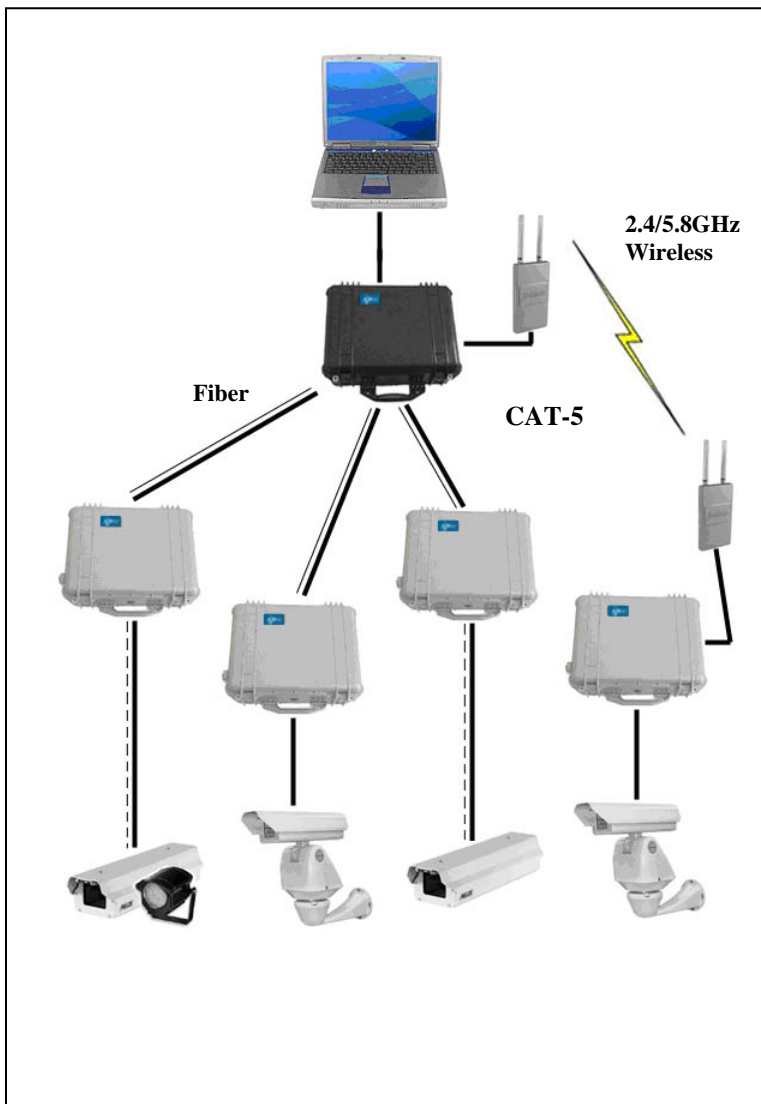
System Specifications:

- Supports any NTSC CCTV cameras; day/night, thermal, PTZ
- Remote controlled infrared illuminators for 0 lux operation
- Man-portable cases that meet commercial airline transport requirements
- Human detection at 750 meters and vehicle detection at 1500 meters by cameras
- Motion detection capability with visual/audible alarms on all camera feeds
- Centralized IP network based control and viewing of all cameras
- Digital video storage, archiving, and replay capability
- Video snapshots of subjects or events (may be printed and/or emailed)
- All VADN nodes support standard Cat-5/5e/6, Single/Multi-Mode Fiber, or 75ohm Coax cabling with standard connections – RJ-45, BNC, SC, ST
- 2.4/5.8GHz dual mode wireless radios with POE connect to VADN nodes
- Universal power inputs 90-260VAC on all nodes and major components
- Power filtering and surge protection on all power, video, and data lines
- Battery powered options
- NEMA 4X portable and permanent nodes
- Temperature control, dust isolation, and solar shields on all communication nodes
- 0-60 deg C operation
- Connection Distance Table on following page.

Connection Distance Table:

Device 1	Device 2	Media	Transmission Distance
VADN Node	VADN Node	Wireless	200-3000m
VADN Node	VADN Node	Cat-5/5e/Cat-6	150-200m
VADN Node	VADN Node	Multi-Mode Fiber	2km
VADN Node	VADN Node	Single-Mode Fiber	20km
NTSC Camera	VADN Node	RG-6 coax	500m
NTSC Camera	VADN Node	RG-59 coax	300m
NTSC Camera	VADN Node	Cat-5/5e/Cat-6	600m
Display Station	SBS Node	Cat-5/5e/Cat-6	150-200m

Typical System Layout:



PASS minimizes time, cost, and installation space. The distributed VADN nodes eliminate the need for telecom closets. Standard network cabling and power are all that is needed making installation rapid, simple, and cost effective. Wireless and fiber links extend the network range and allow operation in difficult areas. Rugged NEMA 4X temperature regulated VADN nodes with multiple levels of power/signal filtering and surge protection ensure reliable low maintenance operation even in harsh environments.

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