

FarSite

FarSite is a suite of Broadband IP based Real time, Active monitoring/ control Video surveillance, Security and Alarm monitoring solution that protects your homes, offices, factories and remote site against burglary, theft and vandalism.

FarSite enhances the User to minimized false alarms, increase situational awareness and support vital on-scene decision to have better visibility. It comprise of the following modules to augment a complete suite of surveillance, security and alarm monitoring solutions.

- **FarSecure**
- **FarEyes**
- **FarAlarm**
- **FarSite Manager**

Features

- Hassle free installation
- Around the clock monitoring
- Fast emergency response
- Reduce operation cost
- Low total cost of ownership
- Management of risks and reduce site visits cost
- Early warnings for pre-emptive action to avoid outages
- Ease of planning for expansion or crisis management
- Ensure SLA (Service Level Agreement) compliance
- Operate on both Static or Dynamic IP environment
- Generation of management report, in accordance to vital information required
- Numerous alarm notification via Email, SMS, SNMP and etc or User define methodology



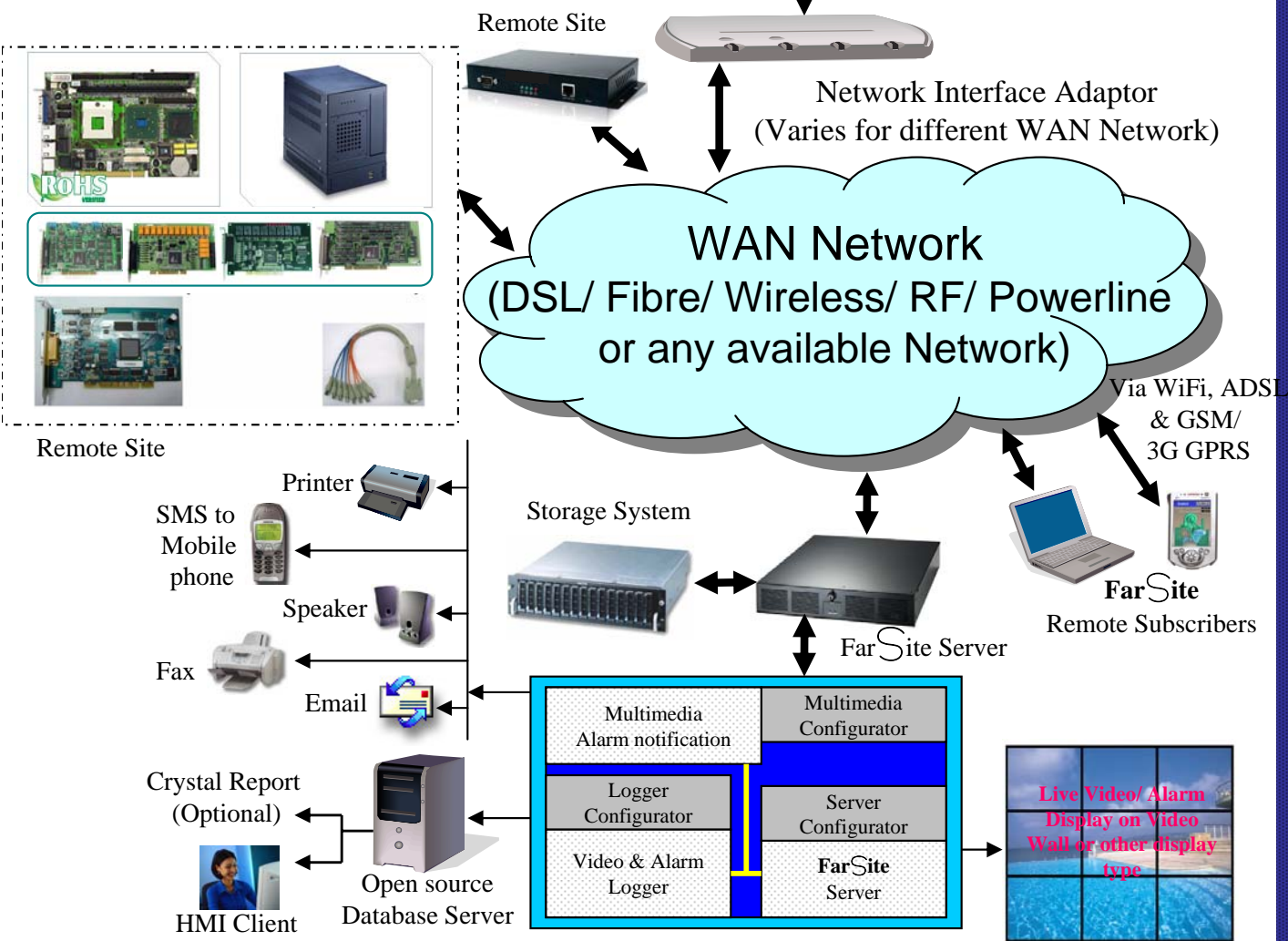
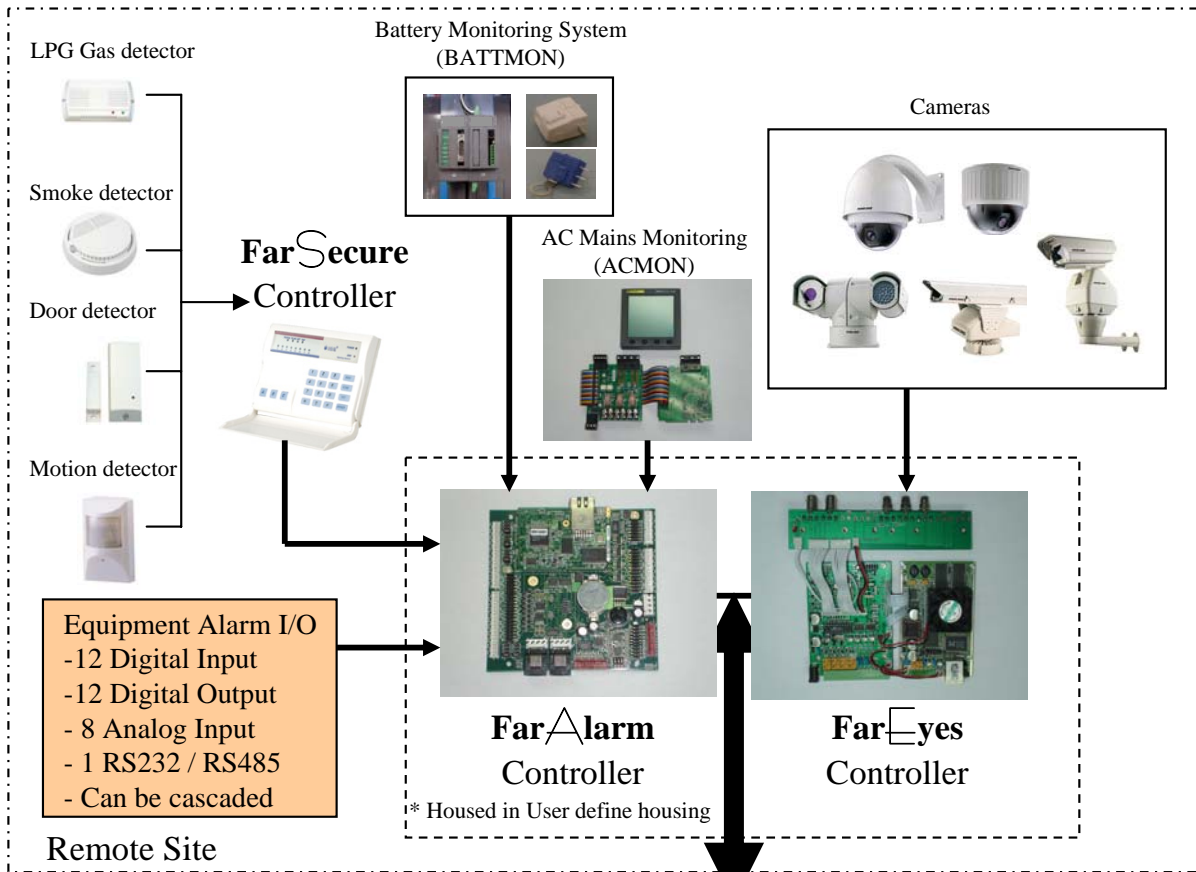
Benefits

- Support any or a combination of Telecommunication network, with suitable network adaptors if it is not Ethernet connection
- Ease of viewing of site events and crisis
- Centralized database management for reliable and high quality data backup
- Viewing of alarm triggered or continuous viewing of site information
- Can be customized to meet most application-specific requirements

Applications

- Video surveillance, security and equipment alarm management for:
 - Telecommunication infrastructure
 - Government authorities public network infrastructure
 - Traffic monitoring, violation and law enforcement
 - Residential Home
 - Banks and financial institutions with multiple branches
 - Logistics companies with multiple warehouses and stores
 - Retailers with multiple outlets

Typical FarSite network



EDPN Technologies Pte Ltd

63 Hillview Avenue #09-15B Lam Soon Industrial Building Singapore 669569

Tel: +65 67636511

Fax: +65 67646511

Email: eddy.poon@edpn.biz

* Subject to changes without notice

FarSecure

The **FarSecure** is a state of art security system that support both wired and wireless connection to all the alarm access points. It supports unparallel alarm detection functionality from the various sensor and give a comprehensive alarm information.

Features

- Transmission by RS485 bus and phone line
- Hi-speed DTMF communication, 4+2 communication protocol
- Four groups of telephone numbers (center telephone, mobile phone and direct line)
- Alarm report for battery low-voltage detector Arming, disarming, emergency alarm made by the remote control and phone line disconnection
- Non-volatile EEPEOM as programming memory, no data loss
- Outgoing arming and stay arming made through the shortcut key
- Telephone remote-control arming and disarming.
- Audio emergency report
- Advanced wireless learning pair-code mode
- Wireless Coding: 24-digit random 16 Million ID code
- Receiving frequency: 315MHz, 433MHz
- Voice prompt: 7-band voice operating alarm prompt
- Working mode: stay, outgoing
- Cryptographic operation (installer code, user code, and duress code)
- Zone type: instant zone, delay zone, 24-hour zone, side road zone
- Input connection: normally Off, normally On (E.O.L) , series 10K resistor
- Method of arming & disarming: cryptographic arming & disarming, swift arming, arming & disarming by remote control, arming & disarming by telephone
- Emergency key: A (emergency help) . B (medical aid) . C (fire alarm)
- Time of alarm: 0-250 seconds, programmable
- Delay time of in & out: 0-250 seconds programmable
- Alarm output current: max.200mA/12VDC



Magnetic Door contact

- Alarm output on both wireless & N.C. relay contact
- Alarm for low battery and tampering



Motion Detector

- Alarm output on wired or wireless connection
- Both PIR only and PIR & DRO technology available
- Ceiling or Wall mount version available
- Battery low alarm optional
- Temperature compensation model available



Gas Detector

- Alarm output on wired or wireless connection
- Different model employed to detect Coal gas (Hydrogen), LPG (Propane) and Natural gas (Methane)



Smoke Detector

- Alarm output on wired or wireless connection
- Ionic detection meeting UL 217 standard



FarEyes

The FarEyes is an active, on-line IP video surveillance solutions that uses standard analog CCTV cameras and IP technology to transmit high quality Video/ Audio streams for Surveillance, Security, Training and other applications.

FarEyes transport real time MPEG4 compressed Video streams per channel. You can now record true 25/ 30 fps video on every channel by using 40Gflops, World fastest Digital Signal Processor. You can now capture crisp Real time recording, do remote recording and at last have a comprehensive and clear surveillance Video.

Features

- Transmit MPEG4 Video streams at 25/ 30 fps up to D1 (4 X cif) resolution
- Synchronized Video stream
- 2 way Audio communication
- PC and TV compatible
- RS485 interface Pan/ Tilt/ Zoom control for PTZ camera
- Advance search mode for fast viewing of alarm triggered video
- Optional built in storage to overcome momentarily or short-term network outages
- Other User define video processing option available
- Optional bandwidth on demand recording



Technical specifications

Specification	IPVS
DSP Processor	64 bits
Video Inputs	PAL / NTSC, 1Vpp / 75Ω / Composite Video / BNC Terminal
Video Compression	MPEG4
Video Frame Rate	PAL (25fps) / NTSC (30fps), Min data stream 32Kbps
Video Quality Adjustment	Brightness / Contrast / Saturation / Hue / Picture Quality
Video Digital resolution	PAL: 704×576 / 704×288 / 352×288 NTSC: 704×480 / 704×240 / 352×24
Real Time Video Stream In	One/ Two or Four
Audio Input	100mVpp / 16Ω / RCA terminal
Audio Output	1mVpp / 16Ω / RCA terminal
Audio Compression	MP3
Ethernet Port	RJ45 / 10/100BaseT
Network Bandwidth	Not less than 64Kbps / Continuous adaptive
Watchdog Timer	Yes
SDRAM	64MB
ROM	4MB
Alarm Input	4 channels, support sensors of constant opening or constant closing switch
Alarm Output	4 channel on-off (120VAC: 1A, AC120V: 1A)
Parameters Settings	Web based, optionally available
Password Security	3 Level
Firmware Upgrade	Via network

FarAlarm

The FarAlarm monitors and controls variety of Digital Inputs, Digital Outputs and Analog Inputs from Site equipment alarm and operation status to provide an aggregate TCP/ IP, RS232 RS485 connection to the network for remote management.



Technical specification

Microprocessor	44.2Mhz
Output port	10/ 100 Base T / RS485 or RS232 (Factory preset)
Flash memory	512K
Program SRAM	512K
Data SRAM	256K
Digital input	16 X individually hardware configurable pull-up or pull-down, $\pm 36Vdc$, switching threshold 1.4V typical
Configurable I/O	16 X individually software configurable, $\pm 36Vdc$, switching threshold 1.5V or sinking Digital outputs up to 40V, 200mA each
Digital output	4 X individually software configurable, up to 40V, 2mA each
Analog input	8 X 11 bit resolution software configurable Unipolar or Bipolar 1/2/3/10 Vdc; 4 of the 8 channel can be hardware configurable to 4 to 20mA, 12KHz update rate
Serial port	Up to 2 X available expansion serial ports (1XRS485/ 1XRS232)
Real time clock	Yes
Watchdog	Yes
Available options	Relay expansion card/ Digital I/O expansion card / Flash expansion card / WIFI 802.11b communication/ GPRS communication

ACMON

The ACMON Power quality meter offers high performance easurement capabilities required to monitor an electrical installation. The power quality meter is able to monitor three phase and neutral at the same time.

Current and Voltage accuracy	Single / Three phase AC input, 0.1%
Energy and Power accuracy class	1
Number of sample cycles	128
Parameters monitored	
Instantaneous RMS	Current/ Voltage/ Frequency Active, Reactive, Apparent Power/ Power Factor
Power quality	Current/ Voltage Harmonic distortion
Time stamping	Yes
Options	White backlit LCD display/ Multi-lingual/ Pulse output: Remote metering

BATTMON

The real time functionality of BATTMON is one of the greatest strength. It allows network operators to see the state of the battery reserve across their network at a glance. This will give them the assurance that, if the needs arise, the battery will perform to their design specifications. It uses modular components, is easy to install and can be retrofitted to any existing battery system. It is cost effective so that it can be deployed permanently to all sites in a network, not just main installations. BATTMON also functions as a means of warning the user when the life of the battery, or individual cells, are in danger.

Master module indicator	Status LED, 4 string alarm LEDs
Master module alarm	Voltage free relay contact (Urgent/ Non-urgent)
Inputs	Cell/ Monobloc voltage ($\pm 0.5\%$ accuracy) / String current ($\pm 1\%$ accuracy) / Ambient temperature ($\pm 1\%$ accuracy) / String temperature ($\pm 1\%$ accuracy)
Battery terminal voltage	2 / 6 / 12/ 24/ 36/ 48 V
Monitoring capability	Battery string: UP to 4 strings Number of Battery: Up to 96 units
Alarm conditions	Cell/ Monobloc voltage low / Cell/ Monobloc Divergence / Discharge voltage low / String temperature Low capacity / Low charge
Measure value	Actual capacity / Reserve charge / Reserve time / State of health
Data	Weekly log: 7days X 24 Hr / Year log: 365 days (averaged) / Last 2 partial discharges / Last full discharge

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FarSite Manager

The FarSite Manager comprises of three modules, mainly to manage and control the Alarm I/O and the Video surveillance at site.

- FarManage
- FarView
- FarSearch

The FarManage is a Automation Software suite for Microsoft Windows® operating systems. It is a HMI and SCADA product designed from the ground up based entirely on the OPC foundation specification for Data Access, Alarm and Events, Historical Data Access.

Features

- Fast, reliable and scalable
- Simple development, Multi-Targets
- Modular software modules
- Web-enabled
- Open database and Historical storage
- Distributed enterprise wide multimedia alarming and notifications that support different rules and action sets
- Automatic Diagnostic and Analysis
- Comprehensive and Simple reporting
- Data Bridging and Redundancy options available

Functionality

- Live and Active alarm/ event viewing which can be saved and re-loaded based on various configuration files to define its operation
- Monitor alarm Data and/or “Expressions” with data compression or filter for alarm conditions both on Live and Historical occurrences
- Contain help instructions on a per-alarm basis to assist operators in solving the alarms when viewing them.
- Associate a default graphic display with each alarm, thus an operator could quickly jump to the associated display to view details on the alarm.
- Offer alarm area grouping of alarms so configured into categories
- Have a delay time specified alarm
- Digital I/O / Analogue limit/ Deviation and/ or Rate of change alarm type supported
- Single or Multiple Data logging base on User define interval/ period/ percentage of change or absolute threshold
- Run locally or over the network, supplying alarms and events to multiple alarm clients on multiple machines.
- Data logged on Single or Multiple open database of MS SQL/ Access/ Data Engine or Oracle
- Major report view in Bar/ Tabular/ Pie view with optional Crystal report view

The FarView enable viewing of video/ image data capture by the video surveillance system.

Features

- User selectable 1/ 2/ 4/ 9 and 16 video points on a single screen, up to 5 screen (selectable)
- Proprietary view options (To consult)
 - Hot Spot Multi-view (HSM)
 - Digital Zoom (DZ)
 - Motion Zoom In (MZI)
 - Specific View Alarm Detection (SVAD)
 - Still Object Detection (SOD)
- Remote control of:
 - Start/ Stop Audio input and Microphone
 - Manual over-ride for video recording and still image capture
 - Camera selection
 - Digital output alarm control
 - Select Video format (PAL/NTSC)
 - Time synchronization
 - User management
 - Video channel setting for display and place text/ clock, PTZ protocol selection, video signal missing detection
 - Video quality setting for continuous/ variable bit rate, frame per second and image size (cif to 4cif),
 - Adjust brightness, contrast, saturation and hue of video
 - Event setting for motion detection area and video recording schedules

The FarSearch is a remote subscriber software which assist the User to better understand the site conditions and visibility at a glance. It comprises of multi-colour icon representations for different user define alarms and events with date and time stamped

