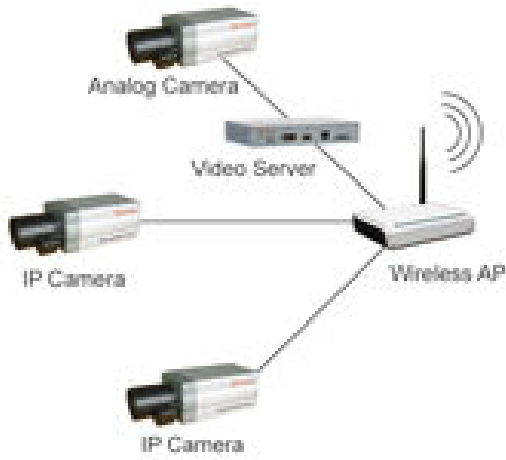


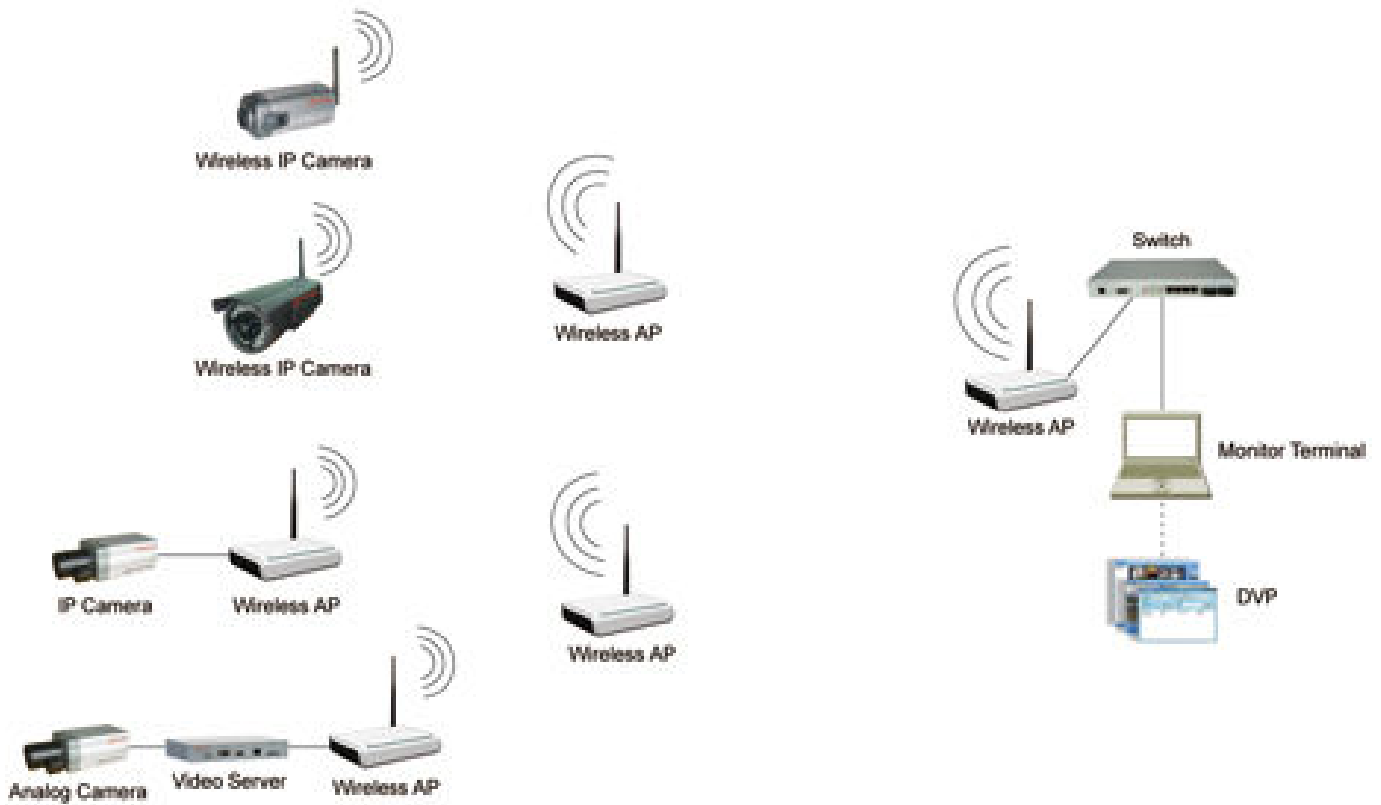
### 1-Point-to-point Wireless Solution (1km)



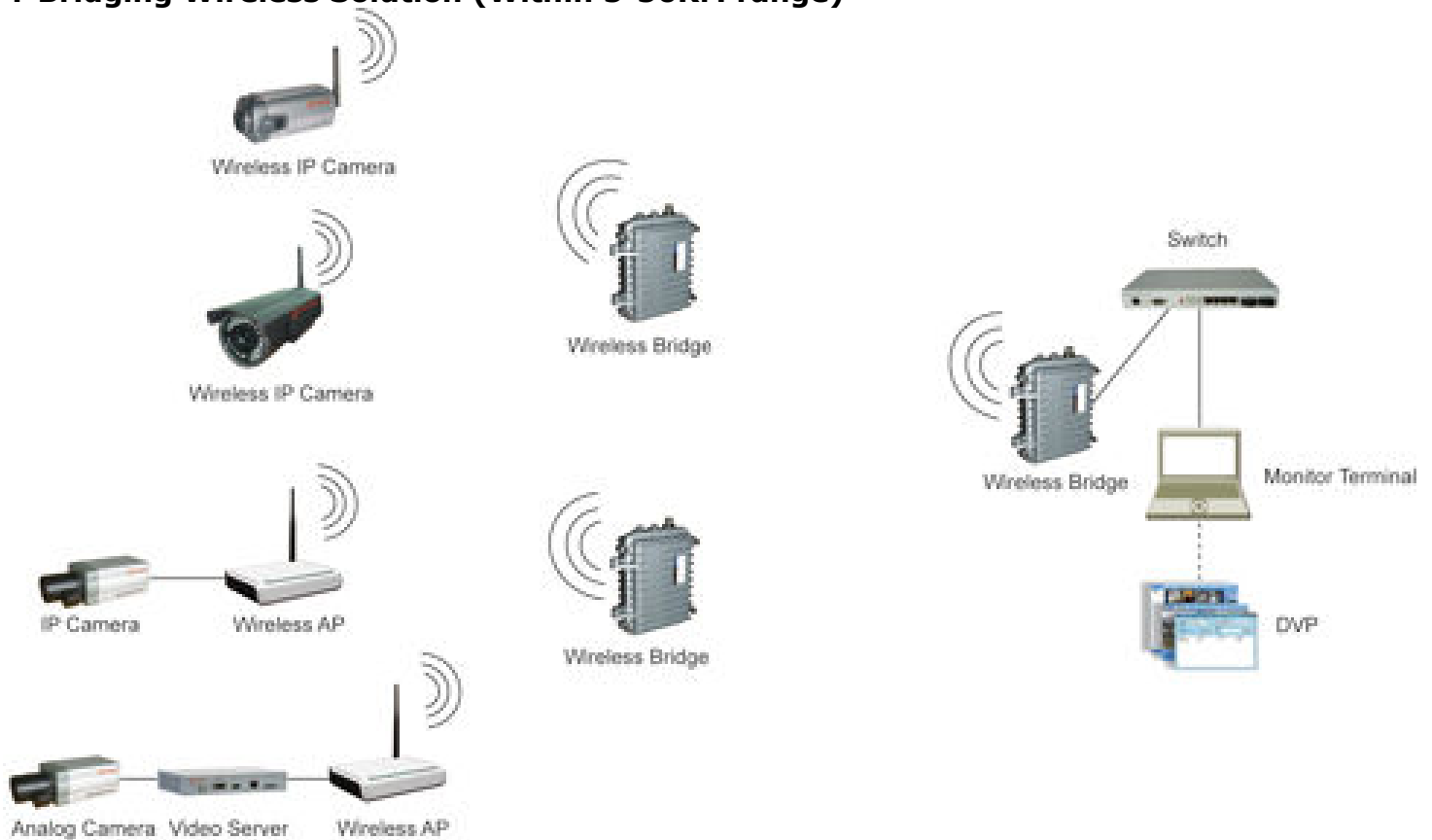
### 2-Point-to-multipoint Wireless Solution ( 1 KM)



### 3-Bridging Wireless Solution (Within 1-5km range)



### 4-Bridging Wireless Solution (Within 5-50KM range)



## Required equipments in network construction

### Network Video Server

#### Introduction:



#### 1. Overview

FBVAD2000 Series Video Server is the product using latest technology which can be integrated easily into your existing analog CCTV (closed circuit television) system, helping users migrate analog security system into an IP-based video solution.

Video server digitizes analog video, audio and data signals, and then sends digital motive images directly over an IP network, such as a LAN, intranet or Internet. It essentially turns an analog video system into a network video system and enables users to view live video using a Web browser or management software on any local or remote computer on a network. It allows authorized viewers from different locations to simultaneously access videos from the same analog camera, as well as IP Cameras when they are added to the system.

#### 2. Features

- Using state-of-the-art H.264 encoding technology
- supports Full D1 resolution or 4\* CIF resolution
- Max 30 frames/sec @ D1 resolution
- Much better video quality under low bit rate network
- Embedded Streaming Video
- Digital Video Motion detection
- Support OSD setting, including time, text or picture types
- Support USB and SD ports to record videos (Optional)
- Support Pelco-D/Pelco-P/YAAN PTZ Control
- Using Fi-View-VS software to monitor or configure the setting

#### 3. Specification

##### 3.1. System

- Main Processor: High performance embedded microprocessor
- Operating System: LINUX
- Control Mode: WEB & Windows based software

##### 3.2. Video

- Video Input: 1/2/4 Channel, 1.0Vp-p, 75Ω
- Video Server Video Server
- Video Standards: PAL (625Line, 50f/s) , NTSC (525Line, 60f/s)
- Video Compression: H.264
- Video Resolution: D1/ HalfD1/ CIF/ QCIF
- Frame speed: PAL 1f/s-25f/s NTSC 1f/s-30f/s ;
- Connector: BNC

##### 3.3. Audio

- Audio Input: 1/2/4 channel
- Audio Output: 1 channel (Optional)
- Audio Compression : ADPCM

Connector: RCA

### 3.4. Alarm

2/4 channel bi-directional

Connector: Terminal Block with Screw Clamps

Normally open

Nominal switching capacity: 3A/277VAC or 3A/30VDC

### 3.5. Data Interface

RS232: Data transmitting, DB9 connector, for advanced debug

RS485: PTZ control, Terminal Block with Screw Clamps connector

### 3.6. USB Interface

1 Host port

Compatible with USB 1.1

### 3.7. SD Interface

compatible with popular SD cards

### 3.8. Environmental

Power Supply: 12VDC

Power consumption: <10W

Working Temperature: 0°C – +55°C

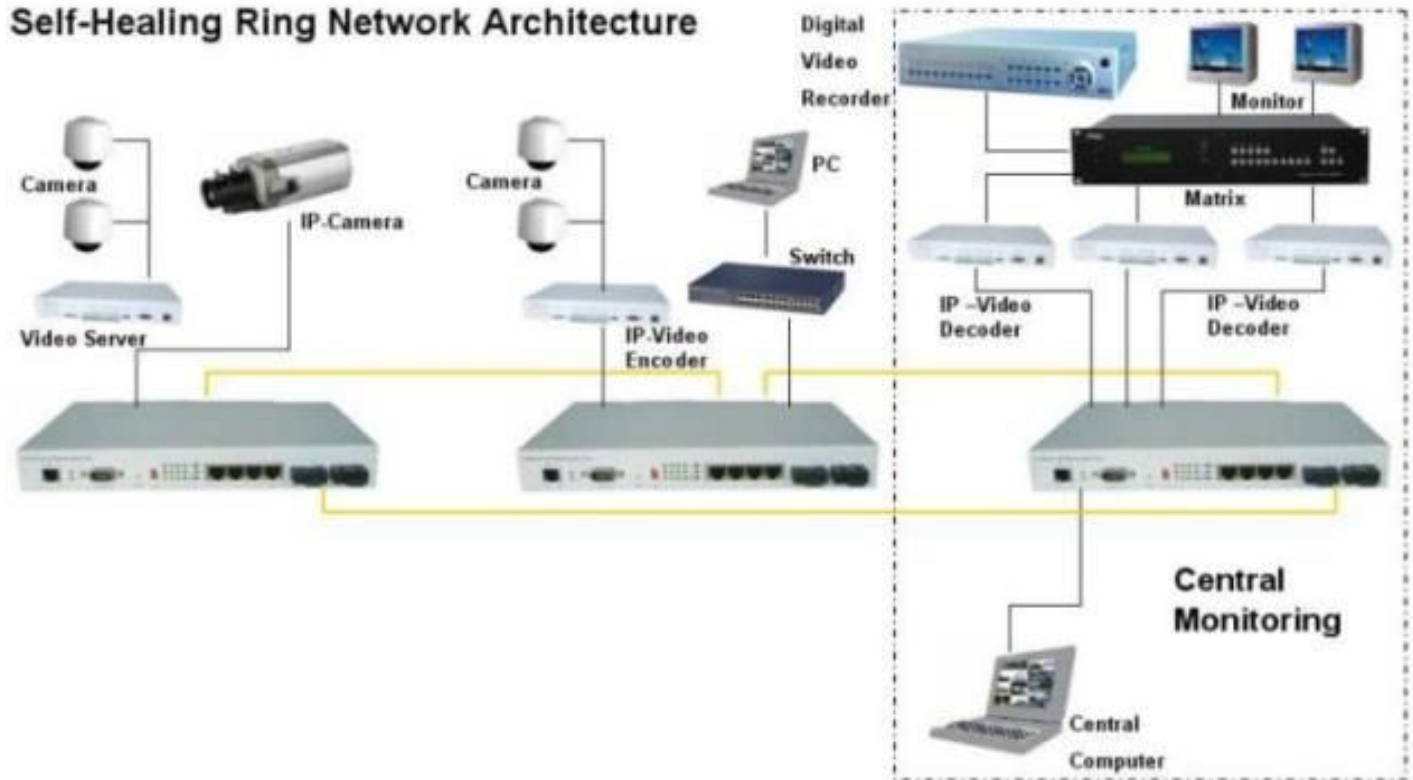
Working Humidity: 10% – 90%

Atmosphere Pressure: 86kpa – 106kpa

Mounting: Desktop

## 4 Application

### Self-Healing Ring Network Architecture



## 5. Order Information

### Model:

FBVAD2000 Video Server, Video Encoder/Decoder, IP Camera

### **F8-SH13A-1VT-1AT-2DTR-2CTR**

1 Video input, 1 Audio input, 2Data(RS232+RS485), 2 Alarm Input/Output

### **F8-SH13A-4VT-4AT-2DTR-4CTR**

4Video input, 1 Audio input, 2Data(RS232+RS485),4 Alarm Input/Output

## Video Encoder/Decoder



### Introduction:

### Overview

FBVAD2000 Series Video Encoder/Decoder are the products using latest technology which can be integrated easily into your existing analog CCTV (closed circuit television) system, helping users migrate analog security system into an IP-based video solution.

Video Encoder can encode the analog video, audio and data signals, and then sends digital motive images over an IP or E1 networks. At the other end, the Decoder decode the digital motive images to analog video, audio and data signals, and transmit these signals to TV Wall or other kinds of monitor system.

### Features

Using state-of-the-art H.264 encoding technology

supports Full D1 resolution or 4\* CIF resolution

Max 30 frames/sec @ D1 resolution

Much better video quality under low bit rate network

Embedded Streaming Video and Web Servers

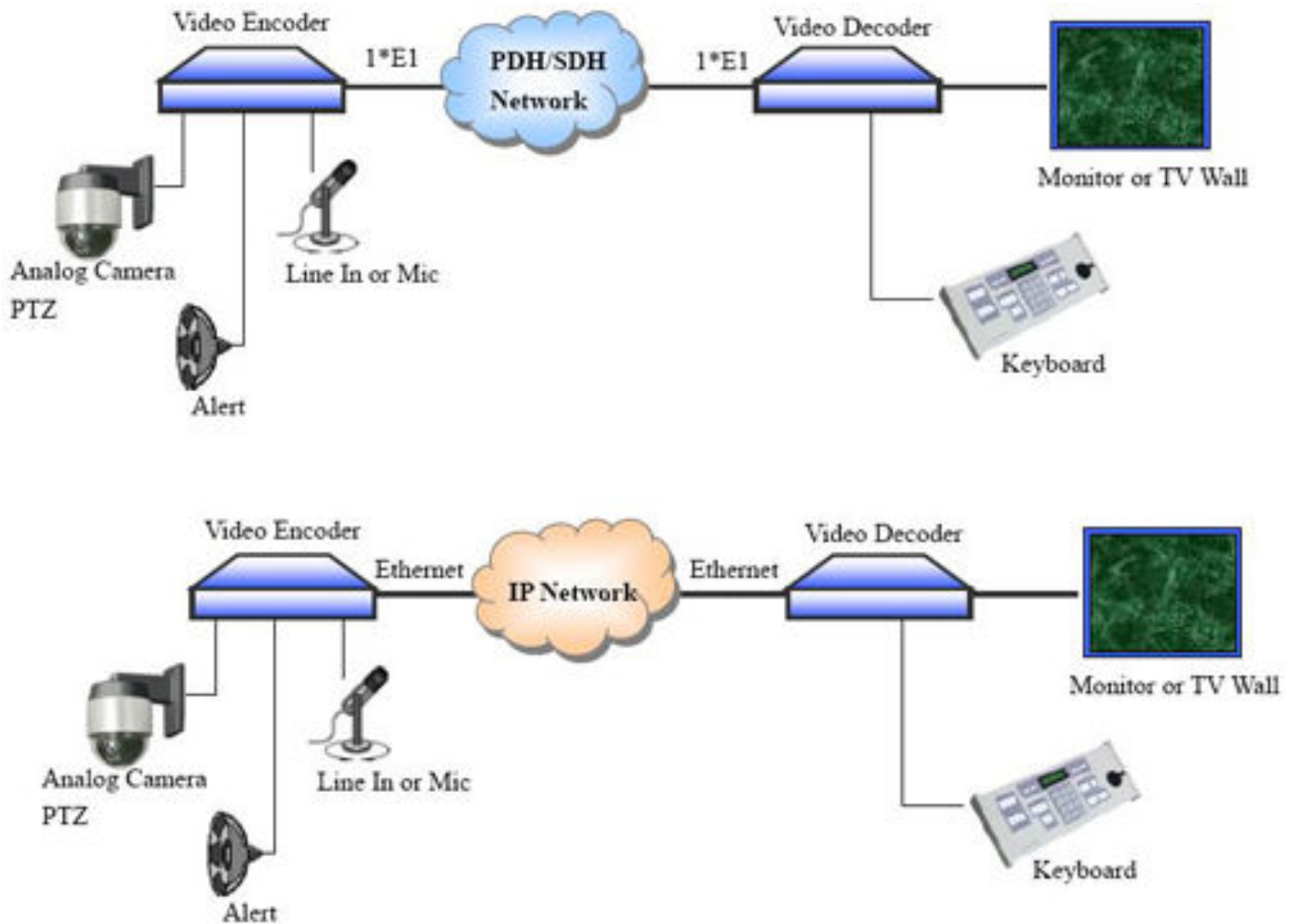
Digital Video Motion detection and event triggered alarm processing

Dual code rates optional

Using E1 or Ethernet to transmit the compressed video

Using web-based interface to monitor or configure the setting

## Typical Application



## IP Camera Extender

### Introduction:



### 1. Overview

IP Camera Extender is a high quality and good performance device with standard 10/100Mbps Ethernet interfaces integrated, Its transmission distance is extended to 4km by 1-pair copper or 6Km by 2-pair wire. IP Camera Extender is designed with 16TC-PAM code according to ITU-T G.991.2 and ITU-T G.994.1, which can improve the transmission performance and economize resource. As the new generation product, it has not only the technical advantage but also very simple installation and maintenance procedure at the same time. It is the best solution for the customers.

### 2. Features

New generation technology, maximal transmission speed 4.6Mbps.  
One-pair wire or two-pair wire optional.

Flexible data ports. Support dual data port in one device.  
The distance can extend to 3.7-4km with 0.4mm (AWG26) by the speed under 2Mbps for one-pair device and 4~4.5Km for two-pair device  
10/100Base-T interface accordant with standard IEEE802.3 and 1Mbytes buffer inserted.  
MAC address list inserted and 4096 MAC address available.  
DSL speed is modifiable  
Easy to install and operate. Working preferences by DIP switch and software control.  
Using 16TC-PAM Code to reduce ISI and to improve the transmission performance.  
AC110~240V or DC48V power supply optional.

### **3.Specification**

#### **3.1. DSL**

Connector: 4 pin industrial terminal (standalone device) and RJ11 (plug-in card)  
Line Code: TC-PAM  
Impedance : 135Ω

#### **3.2. Ethernet**

Compliant with IEEE802.3, IEEE802.3u, IEEE802.3x  
Connector: RJ45  
10/100Mbps auto-sensing, Half/Full duplex auto detected

#### **3.3. Management Port**

Connector: RS232/DB9(for Platform Machine)  
CONSOLE/RJ45(for Plug-in Card)  
Setting timeslots, clocking source, alarms, E1/DSL loopback etc.  
CLI interface, use hyper-terminal to management

#### **3.4.Power**

Platform Machine:  
AC/DC optional  
AC: 220V, 50Hz±5%, Waveform Distorting Rate<5%  
DC: -40V~ -57V  
Power Consumption≤15W  
Plug-in Card:  
Power consumption≤10W

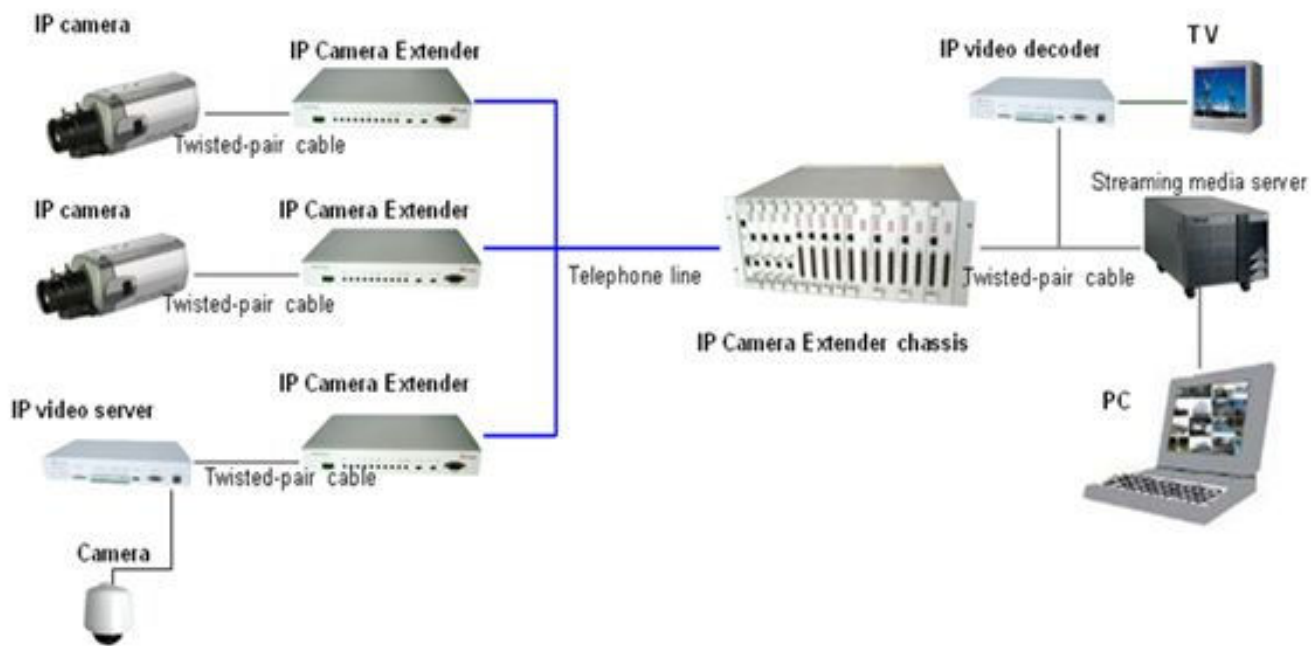
#### **3.5.Environment**

Operating Environment  
Temperature: 0~+50°C  
Humidity: 0~90°C, no condensing  
Storage Environment  
Temperature: -25~+70°C  
Humidity: 0~95%, no condensing

#### **3.6.Size & Weight**

Platform Machine  
Size:width×depth×height: 262 (W) x 163(D) x 36(H)mm  
Weight: 1.23Kg  
Plug-in Card  
Size:lenth×width: 133 × 108mm  
Weight :300g

## 4. Typical Application



## DVP Digital Video Surveillance Management Platform

### Introduction:



FibrIDGE-DVP offers the most optimized total solution for network video surveillance and enriches your video value.

Based on popular client/server frame, FibrIDGE DVP can pass through any kinds of IP network (Unicast/Multicast) to transmit and manage digital video and audio, and provides network video surveillance management system on the basis of Browser/Server frame.

FibrIDGE-DVP digital video surveillance management platform is compatible with popularly used DVR. Using FibrIDGE DVP, user can browse, control, configure and manage video/audio of the DVR quickly and conveniently.

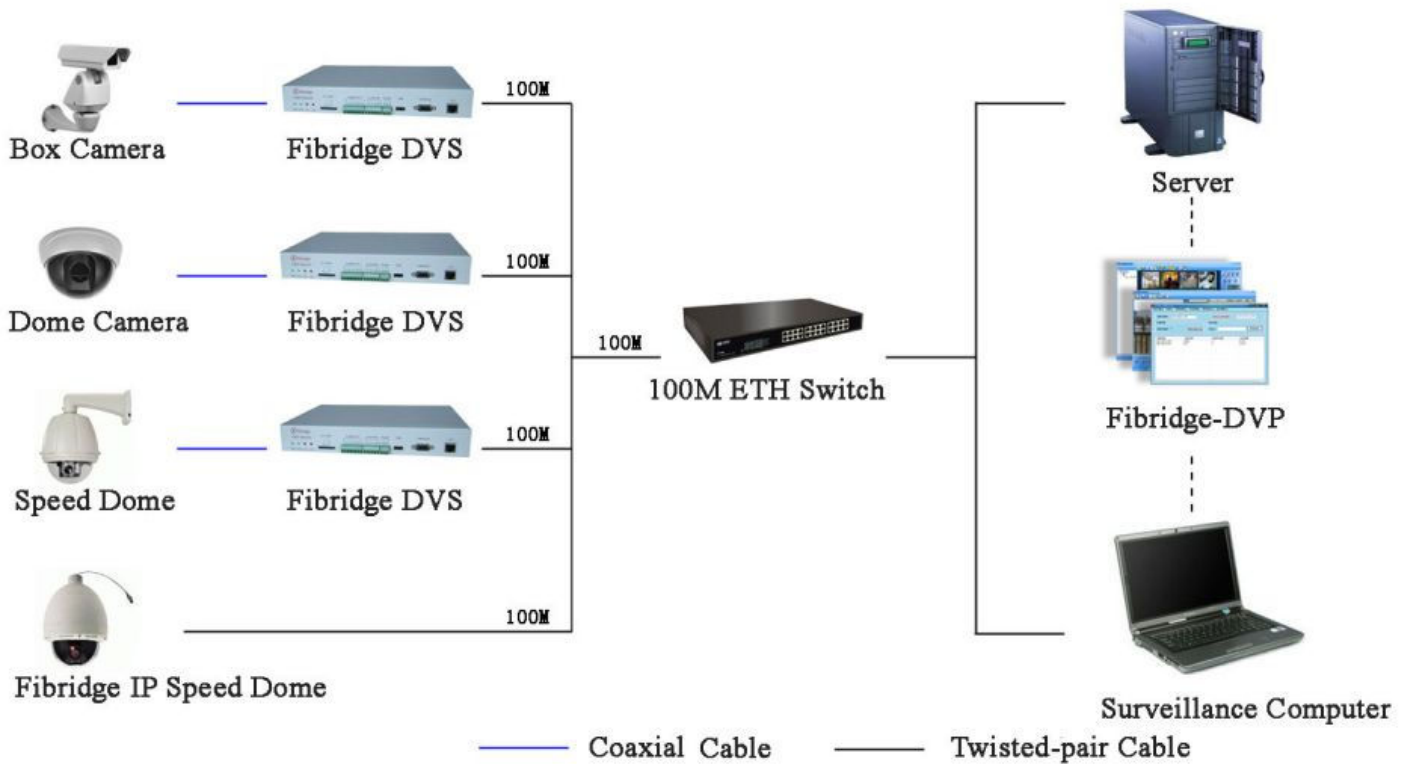
### 1, Features and benefits:

- \* Easily install and simply use
- \* Easily enlarge capacity and cost effective
- \* Flexible and easy storage, redundant backup available
- \* Support synchronous visit to multi-channel video without adding bandwidth cost
- \* Virtual matrix, entire network popedom attemp
- \* Transmit storage, real-time surveillance, and synchronous backup
- \* One platform with entire network maintenance

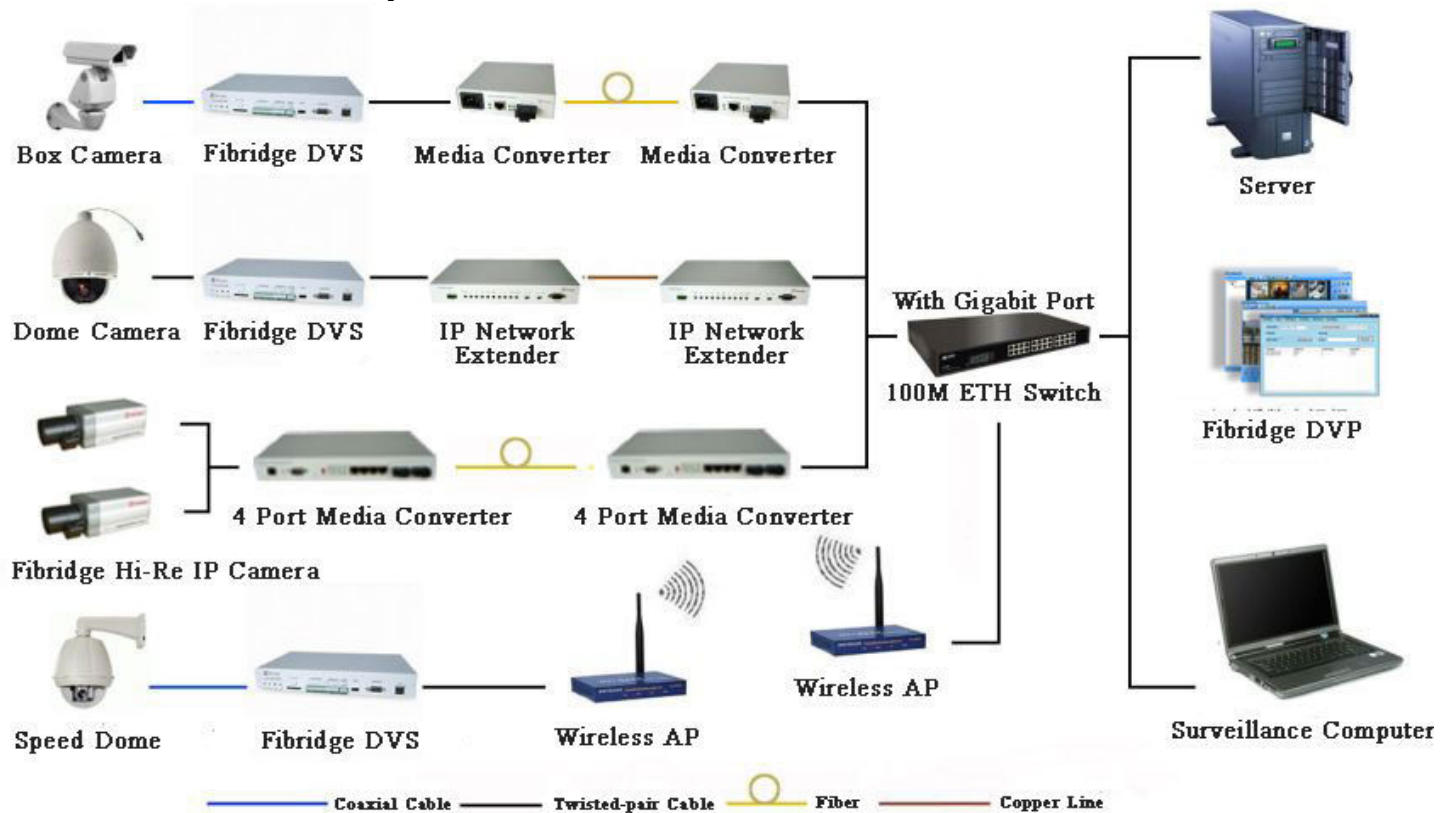


## 2, Fibridge DVP typical application topology:

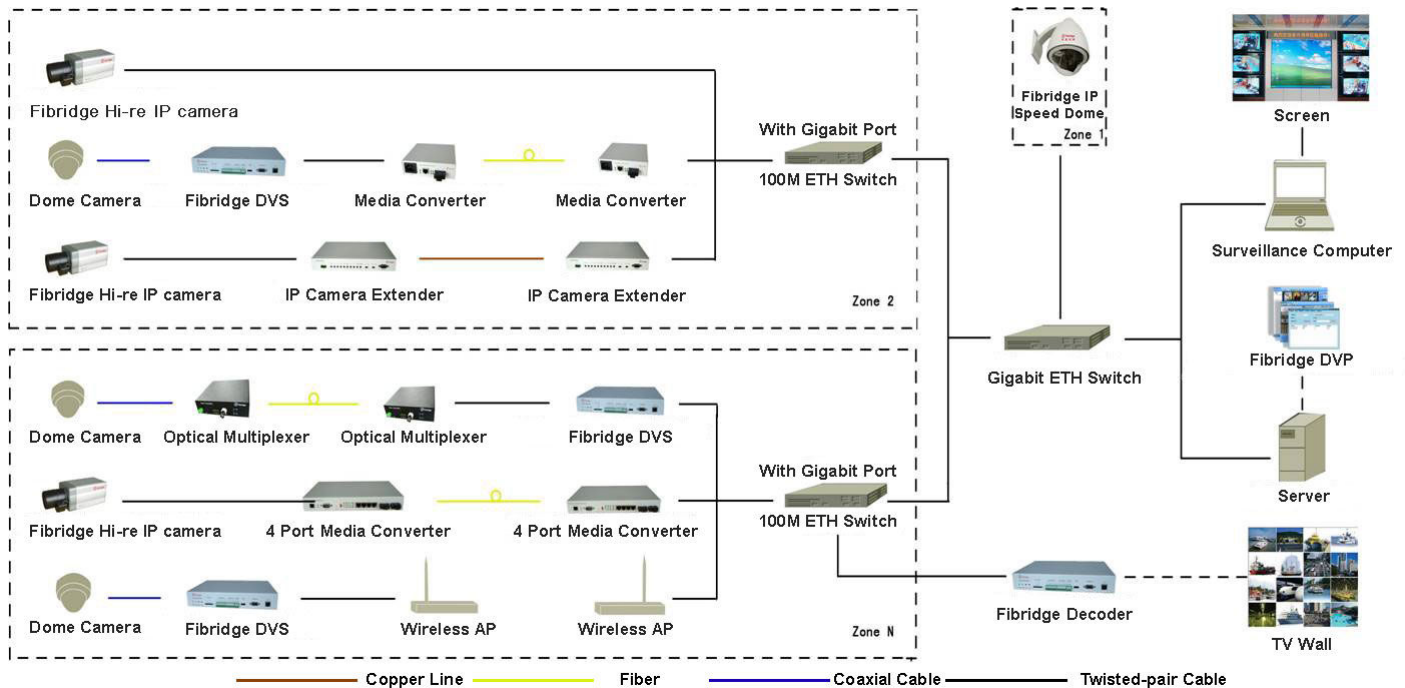
### a- Small Surveillance System



### b-Middle Surveillance System



## c- Large Surveillance System



### Order Information:

DVP Video Management Platform

DVP V3.0 Local Area Network M1 Standard Version,0-50 point

Standard Version,50-252 point

Standard Version,252-1000 point

Standard Version, above 1000 point

DVP V3.0 M2

Public Network, LAN, support cross segments

DVP V3.0 M3

Streaming Media Server software,support store-and-forward

DVP V3.0 M4

Support synchronous visit

DVP V3.0 M5

Virtual Matrix,Matrix rules,surveillance polling

DVP V3.0 M6

Local play network storage 264 file

DVP V3.0 M7

Private encryption module,support transmission and storage

DVP V3.0 M8

OEM

DVP V3.0 M9

Integrate existing DVR system

## HD IP Camera

### Introduction:



### 1.Overview

HD IP Camera is a new generation device which combines traditional camera and IP network technology with 1280\*720 high resolution and the technology of IVS. Based on the state-of-the-art compression and IP network, it provides high quality video stream via Internet or intranet. With the leading technology of IVS, it enables detecting threats and broadcasting

real-time alerts and video without human intervention.

## 2.Features

Deploy TI high-performance DSP technology, with extraordinary performance and stability  
With IVS (Intelligent Video Surveillance) module, authorized users can detect objects that caused rule-violation events according to user-defined rules, such as object classification, inside of "Event Detection, tripwire event detection, multi-line tripwire event detection and so on. Generate alarm output and storage at the same time

High definition video with capability of 1280\*720

Support dual stream

Maximum frame rate up to 30fps with clear and smooth video stream

White-balance adjusted automatically, to adapt to various application

Minimum illumination: 1 lux F 1.2(Color)

Support IRIS control by DC-driven or video driven

Provide high quality video output immune to unconventional illumination or disturbance, with 1/2.5-inch 5,000,000 pixels high resolution CMOS sensor deployed

Provide built-in microphone and external headphone jack

10/100Mbps half/full duplex auto-negotiation Ethernet port

A complementary analog video output with BNC connector available

Provide RS-485 output for PTZ control

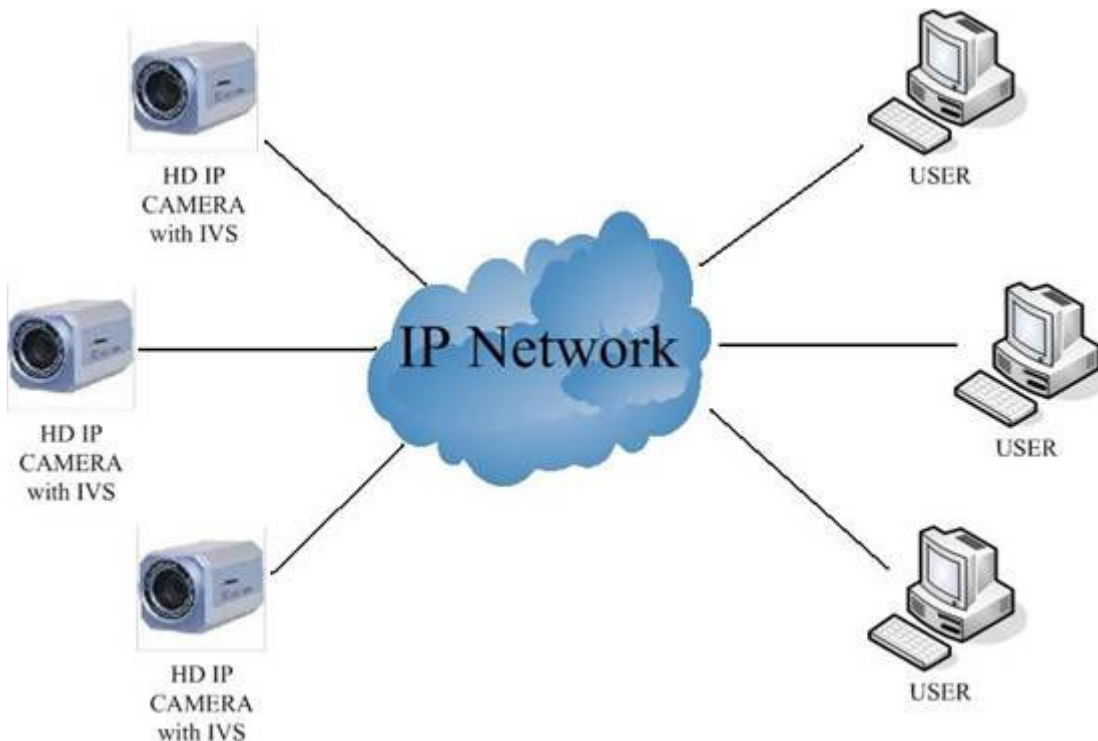
1 channel alarm signal input and 1 channel alarm signal output available

PoE supported (as PD device)

CS/C mount type compatible for LENS

Power consumption as low as 3W

## 3.Typical Application



## 4.Specifications

### USB interface

Fully compatible with USB2.0, 480Mbps maximum speed

### Audio

2.5mm ear-phone jack  
Built in microphone

#### **Lens**

3.5-12mm, with focus adjusted manually  
IRIS control supported  
1/2 Inch frame size  
Type C mount interface  
F 1.4

#### **Video output**

BNC 75 ohm connector

#### **Ethernet port**

Rate: 10/100Mbps with auto-negotiation  
Connector: RJ45  
Full-duplex / half-duplex auto-negotiation

#### **RS-485**

Half-duplex  
Connector: 2.54mm terminal block, 3-position

#### **Alarm input and output**

Connector: 2.54mm terminal block, 3-position

#### **DC-driven IRIS control interface**

Connector: Standard 4-pin IRIS female connector

#### **LED indicator**

PWR/ERR  
LINK/ACT  
SPD

#### **Power supply**

Input voltage: DC12V  
Power consumption: 3W(max.)  
As PD device with PoE supported(optional)

#### **Operation environment**

Temperature: 0°C~45°C  
Humidity: 0~90%(non-condensing)

#### **Packing dimension**

Dimension: 120mm(L) x 68mm(W) x 55mm(H)  
Weight: 0.6Kg

## **Wireless IP Network Box Camera**

### **Introduction:**



### **Overview:**

**Part no.:** F17-801-3S42W; H.264 Video Compression Format, Network Box Camera, 1/3 SONY CCD sensor, supports bi-direction audio, support WIFI wireless transmission, there are 420TVL, 480TVL and 520TVL three kinds.

### **Feature:**

Optimized H.264 Baseline Profile@Level 2.2 Compression algorithm is convenient to realize

high-definition image transmission at narrow-band  
Up to D1 resolution real-time encoding  
It can support at most 10 users simultaneous browsing  
Insert Web Server is easy for user to use standard IE browser to achieve real-time monitor on the end device and configure management  
Support remote system upgrade feature  
Support dynamic domain name resolution, support LAN and Internet (ADSL, Cable Modem)  
Supports multiple network protocols: HTTP, TCP/IP, UDP, SMTP, DDNS, DNS, SNTP, BOOTP, DHCP, FTP, SNMP.  
Support WIFI wireless transmission, IEEE802.11b/g.  
Bi-direction audio intercom and audio broadcasts, and optional built-in microphone.  
Network Adaptive Function: Automatically adjusts the size and encoding frame rate stream according to network bandwidth.  
Video loss, motion detection (regional, sensitivity can be installed), and sensor alarm functions  
Support RS485/RS232 serial port and built-in decoder protocols, supports transparent transfer protocol  
Support abnormal automatic recovery, network interrupts automatic connection functions

**Specifications:**

**Compression algorithm:**

Video Compression: H.264 Audio Compression: G.726

**Image Sensor:**

1/3 sony ccd / 1/3 sony super had ccd

**Lens:**

Auto white balance, electronic shutter, automatic gain control, automatic backlight compensation (optional arbitrary lens)

**Auto Iris:**

VIDEO/DC drive

**Core processor:**

DSP+ARM+Hardware compression engine

**OS:**

Embedded real time operating system (RTOS)

**Effective Pixels:**

PAL: 720x576 (D1) 720x288 (HALF D1) 352x288 (CIF)  
NTSC:720x480 (D1) 720x240 (HALF D1) 352x240 (CIF)

**Horizontal Resolution:**

420TVL/480TVL/520TVL

**Minimum Illumination:**

1.0 LUX F1.2 color to black: 0.01LUX

**SNR:**

≥48DB

**Adjustable Video Parameters:**

Brightness, color, contrast, saturation and image quality

**Video frame rate:**

PAL: 1~25 frame/s NTSC: 1~30frame/s

**Video Compression Rate:**

16Kbit/S~3Mbit/S

**Audio intercom input:**

Bi-direction audio intercom and audio broadcasts, and optional built-in microphone

**Support protocol:**

HTTP, TCP/IP, UDP, SMTP, DDNS, DNS, SNTP,BOOTP, DHCP, FTP, SNMP

**Wireless:**

Support WIFI wireless transmission, IEEE802.11b/g

**System Interface:**

A 10Base-T/100Base-TX Ethernet Port, A set of RS485 interface, A set of audio input and output ports, A set of alarm input and output ports, A video output port(BNC), A reset button, A power interface.

**System clock:**

ROM storage, can be synchronized with the client end

**Input Power:**

DC12V/ 1A

**The Maximum Power Dissipation:**

≤12W

**Work Environment:**

Work Temperature: -10°C~50 °C  
Storage Temperature: -20°C~70 °C  
humidity <90%

**Volume and Weight:**

120mm\*61mm\*58mm, weight: 0.5KG

**Wireless Infrared IP Camera**

**Introduction:**



**Overview:**

**Part no.:** F17-802-H30. H.264, 1/3 sony ccd, colorful day & night Infrared IP Camera, Water-proof, Dust-proof, explosion-proof, Night Vision Distance 30meter, Support Wireless, Suitable for small offices, home, small and medium sized shops, small and medium sized

factories, and other environments.

**Feature:**

Colorful day & night Infrared IP Camera, water-proof, dust-proof, explosion-proof, night vision distance 30 meter  
Optimization H.264 Baseline Profile@Level 2.2 coding, Facilitate the realization of narrow-band high-definition image transmission  
Support up to D1 resolution real-time encoding  
Support WIFI 802.11b/g  
Maximum support 10 simultaneous users browsing  
Built-in Web Server, user using a standard IE browser, to achieve real-time monitor and management  
Support remote system upgrade feature  
Support DHCP, LAN and Internet (ADSL, Cable Modem)  
Support HTTP, TCP/IP, UDP, SMTP, DDNS, DNS, SNTP,BOOTP, DHCP, FTP, SNMP  
Support Bi-direction Voice and broadcasting  
Network adaptive function: According to the network bandwidth automatically adjusts the size and encoding frame rate stream  
Support Video loss, motion detection (regional, sensitivity can be installed), and sensor alarm functions  
Support RS485/RS232 serial ports and built-in to provide a variety of decoder protocols  
Support abnormal automatic recovery, network interrupts automatic connection feature

**Specifications:**

**Coding**

Video: H.264 Audio: G.726

**Image Sensor**

1/3 sony ccd

**Lens**

Auto white balance, electronic shutter, automatic gain control, automatic backlight compensation

**Focus**

8mm

**Core Processor**

DSP+ARM+ Hardware compression engine

**OS**

Embedded Real-Time Operating System (RTOS)

**Infrared light**

30m

**Infrared light angle**

30m is 60°, inversely proportional to the visual distance

**Minimum Illumination**

Color : 1Lux, Black : 0.01Lux, Infrared: 0 Lux

**Effective Pixels**

PAL: 720x576 (D1) 720x288 (HALF D1) 352x288 (CIF)  
NTSC:720x480 (D1) 720x240 (HALF D1) 352x240 (CIF)

### **Local Storage**

Support the largest 4G SD card local storage

### **SNR**

≥50DB

### **Adjustable video parameters**

Brightness, color, contrast, saturation and image quality

### **Video frame rate**

PAL: 1~25f/s NTSC: 1~30f/s

### **Video Compression Rate**

16Kbit/S~3Mbit/S

### **Voice intercom input**

Two-way voice intercom and voice broadcasts can be an external microphone and microphone

### **Protocol**

HTTP, TCP/IP, UDP, SMTP, DDNS, DNS, SNTP,BOOTP, DHCP, FTP, SNMP。 802.11b/g

### **Wireless**

WIFI IEEE802.11b/g

### **Interface**

1 10Base-T/100Base-TX,1 RS485, 1 Audio input & output, 1 Alarm Input & output, 1 Reset , 1 power input。

### **Clock**

ROM storage, can be synchronized with the client

### **Input Power**

DC12V/ 1.5A

### **Maximum Power Consumption**

≤18W

### **Working Environment**

Working Temp : -10°C~50 °C

Storage Temp: -20°C~70 °C

Humidity <90%

### **Dimension**

78 (Φ) ×200 (H) mm Weight 1.02 KG



## Long Range Outdoor 802.11a/b/g Integrated AP



### Introduction:

### Overview :

**Part no.:** FB-Wi5610. Complied with IEEE802.11a/b/g. The shell is designed with IP67 industrial standard, rain-proof and dusty-proof. 13dbi directional antenna embedded. Support PoE power supply. Ease-of-installation  
FB-Wi5610 supports AP or client-side working mode.  
The latest WPA2 Encryption and User Authentication could protect your data safety farthest.

### Features :

- 54M/108M high-speed link
- Compliance with IEEE 802.11a/b/g
- Transmitting power is up to 28dbm
- Support P2MP wireless link
- Support WPA2/WPA/802.1x Encryption and User Authentication
- 11g protection mode, for higher 11g efficiency under b/g mix mode.
- PoE power supply, compliance with 802.3af
- MAC address filtrate
- Web /SNMP management
- VPN transparent transmission
- LED displays the signal intension
- PPPoE(under router bridge)
- Complied with IP67 outdoor design standard. Wind-proof, rain-proof and water-proof.
- Wide working temperature range, strong adaptability to environment
- Embedded 13dbi flat antenna

### Specifications :

#### Standard

IEEE802.11a/b/g, IEEE802.1x, IEEE802.3, IEEE803.3u, IEEE802.3af

#### Power supply

PoE power supply, compliance with 803.3af  
-24VDC/0.8A

#### Certificate

FCC Part 15/UL,ETSI 300/328/CE

#### Frequency phase

2.400~2.484GHz  
5.150~5.825GHz

#### Medium visit interface

CSMA/CA

#### Modulate technology

OFDM

**Working channel:**

United states : 11

Japan : 14

China : 13

Europe : 13

**Receiving sensitivity (Typical value)**

IEEE802.11g

-92dBm@6Mbps, -75dBm@54Mbps

IEEE802.11b

-93dBm@1Mbps, -91dBm@11Mbps

IEEE802.11a

-88dBm@6Mbps, -70dBm@54Mbps

**Transmit power (Typical value)**

IEEE802.11g

28dBm@6~24Mbps, 26dBm@36Mbps

25dBm@48Mbps, 24dBm@54Mbps

IEEE802.11b

28dBm@1~11Mbps

IEEE802.11a

28dBm@6~24Mbps, 26dBm@36Mbps

24dBm@48Mbps, 22dBm@54Mbps

**Antenna specification:**

Embedded 9dbi flat antenna

**Connector**

One 10/100Mbps RJ45port

RP-SMA

**Network topology**

Infrastructure

**Working mode**

P2MP

Bridge/AP/WDS

**Safety**

IEEE802.1x certified, EAP-MD5/TLS/TTLS

WPA2/WPA

MAC address filtrate

Hide SSID

2 layers separate

**IP Management**

DHCP server/client-side

**Device management**

Web page configuration

SNMP V1,V2c(MIBI,MIBII)

### Software upgrade

Upgrade by web page

### Size

260(L)mm\*84(W)mm\*55(H)mm

### Weight

300g

### Temperature range

Working temperature : -20°C~65°C

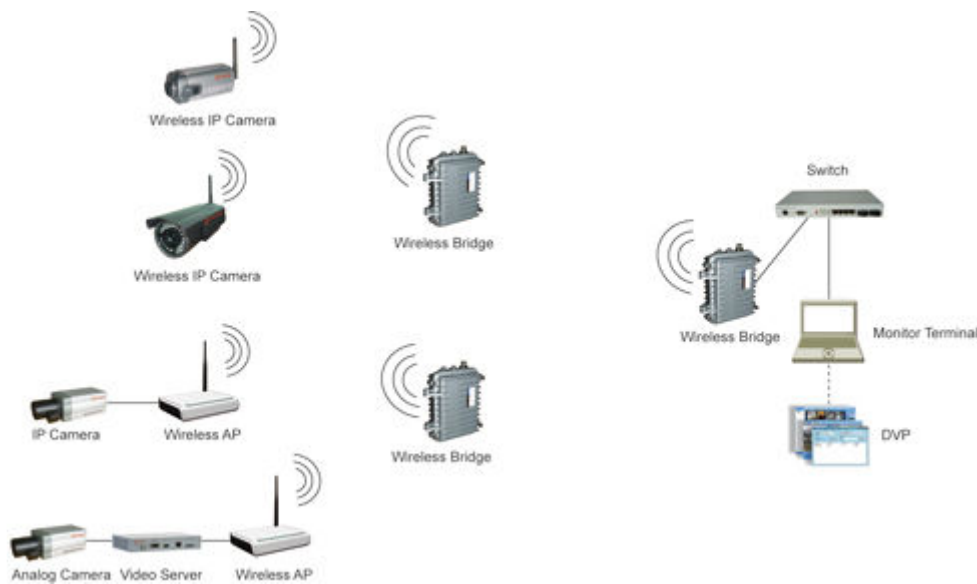
PoE power working temperature : -20°C~65°C

Storage temperature : -40°C~80°C

### Humidity

5%~95% no curd

### Application topology



## Long Range Outdoor 802.11b/g Integrated Wireless AP

### Introduction:



### Overview

**Part no.:** FB-Wi1650. Complied with IEEE802.11b/g standard, IP67 industrial standard protects against rain and dust. Embedded 10dbi directional antenna, support PoE, ease-of-installation.

With AP and client multi working mode, FB-Wi1650 maximally protects your system. And it

maximizes your data security with the most advanced WPA2 encryption and authentication mode.

### **Features**

54M high speed connection  
IEEE 802.11b/g compatible  
Output power up to 24dbm  
Support point to multipoint (P2MP) wireless connection and WDS distributing  
Support WPA2/WPA/802.1x encryption and authentication  
11g protection mode, higher efficiency under b/g mix mode 11g  
Support PoE, 802.3af compatible  
Firewall, support MAC address filtering  
WEB/SNMP management  
VPN transparent transmission  
LED indicate signal intensity  
PPPoE (Router Bridge mode)  
IP67 compliance protects against wind, rain and water  
Wide temperature range and high environment adaptability  
Embedded 7dbi flat antennas

### **Specification**

#### **Standards Compliance**

IEEE802.11b/g, IEEE802.1x, IEEE802.3, IEEE803.3u, IEEE802.3af

#### **Power Supply**

PoE Power supply, complied with 803.3af standard  
-24VDC/0.8

#### **Certificate**

FCC Part 15/UL, ETSI 300/328/CE

#### **Frequency Band**

2.400~2.484GHz

#### **Medium Access Protocol**

CSMA/CA

#### **Radio Frequency Type**

OFDM

#### **Working Channel**

United States: 11 Japan: 14 China: 13 European: 13

#### **Sensitivity (Typical value)**

IEEE802.11g  
-92dBm@6Mbps, -74dBm@54Mbps  
IEEE802.11b  
-97dBm@1Mbps, -89dBm@11Mbps

#### **Transmission Rate (Typical value)**

IEEE802.11g  
23dBm@6~24Mbps, 25dBm@36Mbps  
21dBm@48Mbps, 22dbM@54Mbps

IEEE802.11b  
24dBm@1~11Mbps

**Antenna**

Embedded 7dbi flat antenna

**Connector**

1 port 10/100Mbps RJ45  
RP-SMA

**Network Topology**

Infrastructure

**Working Mode**

Point to multipoint  
Bridge/AP/WDS

**Security**

IEEE802.1x complied, EAP-MD5/TLS/TTLS  
WPA2/WPA  
MAC address filtrate  
Suppressed SSID  
2 layer isolation

**IP management**

DHCP Server/ Client server

**Device Management**

Web configuration  
SNMP V1, V2c (MIBI, MIBII)

**Software Upgrade**

Upgrade through web page

**Dimension**

192(L)mm\*48(W)mm\*36.2(H)mm

**Weight**

250g

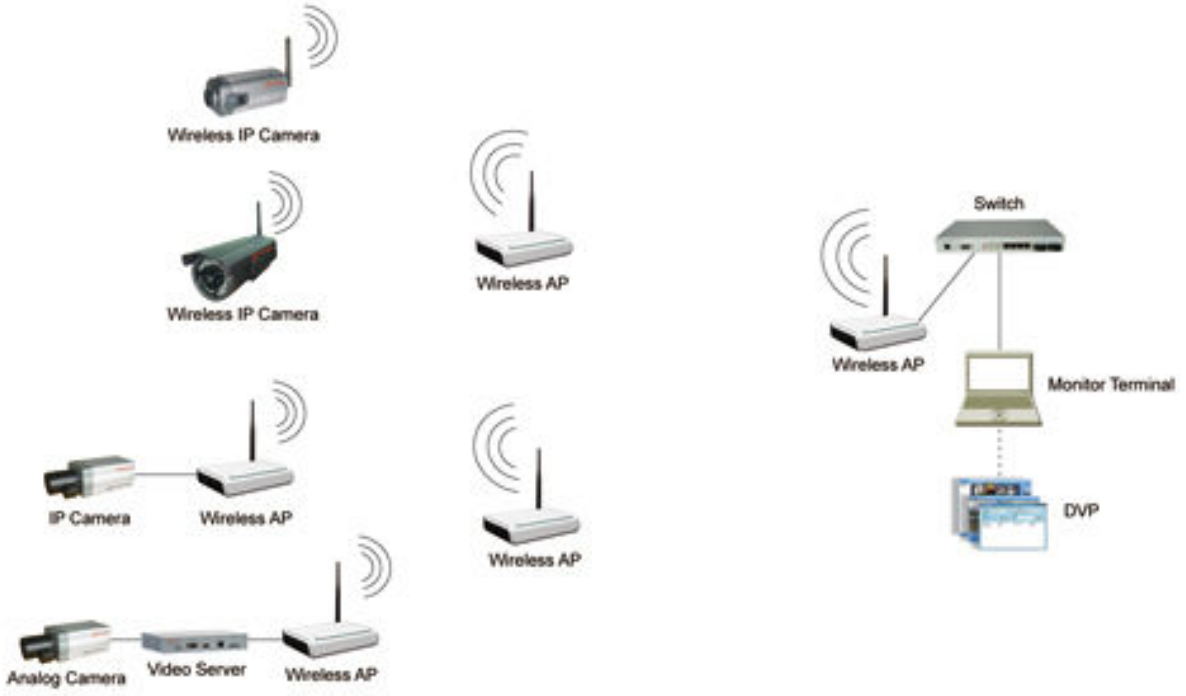
**Temperature**

Working Temperature: -20°C~70°C  
PoE Power Supply Working Temperature: -20°C~65°C  
Storage Temperature: -30°C~80°C

**Humidity**

5%~95% No condensing

## Application Topology



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Haberleşme sistemlerinde **yüksek performansı** yakalayın

