ZAVIO

F7210 2 Megapixel Day/ Night WDR Box IP Camera

- ◎ **2 Megapixel Resolution**
- ◎ **Enhances High Contrast Bright & Dark with WDR**
- ◎ **Flexible Installation with Wireless Capability**
- ◎ **Analog Video Output & PoE Built in**
- ◎ **MicroSD Card Slot**
- ◎ **RS-485 for Pan/ Tilt Control**

- 2 megapixel progressive scan CMOS sensor
- H.264, Motion JPEG, MPEG-4 and 3GPP video streams
- 30 fps in 1920 x 1080
- Day/ night functionality with automatic removable IR-cut filter
- 3 – 8mm, F1.2 megapixel fixed lens
- Enhances High Contrast Bright & Dark with WDR
- Analog video output through RCA connector
- MicroSD card slot
- Power over Ethernet IEEE 802.3af
- Two-way audio with built-in microphone and audio detection
- Wireless 802.11b/g/n
- External Wi-Fi dongle support
- RS-485 for pan/ tilt control
- SSL v3 advanced HTTPS encryption
- Full support for Firefox and Mac OS
- Supports Samba network storage
- 3GPP mobile surveillance
- Easy access via EZvuu
- Supports ONVIF

Technical Specifications

Camera

Models	F7210 2 Megapixel Day/ Night Box WDR IP Camera
Image sensor	1/2.7" progressive scan CMOS 2 megapixel sensor
Lens	F1.2, 3 - 8mm; DC-iris
Angle of view	42 ~ 105 ° horizontal
Digital zoom	10x digital
Min illumination	0.5Lux at F1.2
Day/ night function	Mechanical IR-cut filter
Shutter time	1/2 ~ 1/10000sec.
S/N ratio	39dB

Video

Video compression	Motion JPEG, MPEG-4, H.264
Resolutions	Motion JPEG: 8 resolutions from 1920 x 1080 to 160 x 120 via API, 8 selections via configuration web page MPEG-4: 8 resolutions from 1920 x 1080 to 160 x 120 via API, 8 selections via configuration web page H.264: 8 resolutions from 1920 x 1080 to 160 x 120 via API, 8 selections via configuration web page
Frame rate	Motion JPEG: up to 30 fps at 1920 x 1080 MPEG-4: up to 30 fps at 1280 x 720 H.264: up to 30 fps at 1920 x 1080
Video streaming	Simultaneous Motion JPEG, MPEG-4, H.264 and 3GPP (multiple streaming) Controllable frame rate and bandwidth Support unicast and multicast Support 3GPP/ ISMA RTSP (Real time streaming protocol)
Image settings	Brightness, contrast, saturation WDR enhanced Rotation: mirror, flip, mirror flip Overlay capabilities: time, date, text and privacy image

Audio

Audio streaming	Two-way (full duplex)
Audio compression	G.711 μ law, a law, AMR

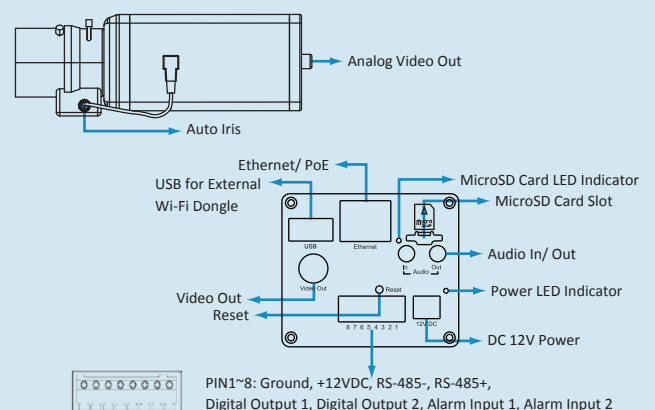## Network

Wireless encryption*	IEEE 802. 11 b/g/n (wireless connection through external Wi-Fi dongle)
Security	Multiple user access levels with password protection, HTTPS encryption
Supported protocols	Bonjour, TCP/ IP, DHCP, PPPoE, ARP, ICMP, FTP, SMTP, DNS, NTP, UPnP, RTSP, RTP, RTCP, HTTP, TCP, UDP, 3GPP/ ISMA RTSP
Users	10 simultaneous users Unlimited number of users using multicast

Alarm and Event Support

Alarm input/output	Input: 5V/ 12V DC Output: Max 30W
Alarm and event management	Input: alarm buffer, motion detection, audio detection Output: network storage, FTP, SMTP, pre-and post alarm buffer

System

Connectors	RCA connector for analog video output RJ-45 Ethernet 10/ 100 Base-T 2 pin terminal blocks for DC power 8 pin terminal blocks for 2 alarm input, 2 output and 1 RS-485 Reset button MicroSD card slot USB A type 3.5mm jack for Mic/ Line, 3.5mm jack for audio out
Local storage	MicroSD card slot with LED indicator
Software integration	Support ONVIF v.1.02
Video management software	EZvuu ZAVIO CamGraba IP System software, for viewing, recording and archiving up to 32 cameras See http://www.zavio.com/support_softwares.php for more software application

General

Casing	Aluminum
Power	12V DC, 1A, Max 12W
Operating conditions	-10 ~ 50 ℃ (14 ~ 122 ℉)
Installation, management, and maintenance	ZAVIO camera management tool on CD and web-based configuration. Configuration of backup and restore firmware upgrades over HTTP, firmware available at www.zavio.com
Minimum web browsing requirement	Pentium 4 2.8GHz (or equivalent AMD) 256MB RAM graphic cards (or equivalent on-board graphic cards) 2G RAM Window 2000, 2003, XP, Vista or Windows 7 Mac OS Leopard 10.5
Dimensions (HxWxD)	115 x 64 x 56mm (4.5" x 2.5" x 2.2")
Weight	312.6g (0.69lb) excl. power supply
Included accessories	Quick installation guide, CD (IP Surveillance Software, Intelligent IP Installer, EZvuu, user manuals, and language pack), mounting and connector kits, power supply 12V DC
Certification	CE, FCC, RoHS

Physical Description

Analog Video Out

Auto Iris

Ethernet/ PoE
USB for External Wi-Fi Dongle
MicroSD Card LED Indicator
MicroSD Card Slot
Audio In/ Out
Video Out
Reset
Power LED Indicator
DC 12V Power

PIN1~8: Ground, +12VDC, RS-485-, RS-485+, Digital Output 1, Digital Output 2, Alarm Input 1, Alarm Input 2

* External Wi-Fi dongle is not the standard equipment of package contents. To get list of compatible Wi-Fi dongle for F7210, please contact ZAVIO's sales representatives for details.