**ZAVIO**

# B7210 2 Megapixel Bullet IP Camera
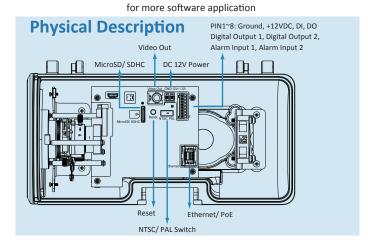
- 2 Megapixel CMOS Sensor

- 4 High Performance IR LEDs and 35m Working Distance

- Built-in MicroSD/ SDHC Card Slot for Local Storage

- Built-in Heater and Fan

- Enhances High Contrast Bright & Dark with WDR

- Supports True Plug and Play Cloud Solution

- 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

- 4 high performance IR LEDs and 35m distance

- 3 - 9mm, F1.2 varifocal, auto-iris lens

- Enhances high contrast bright & dark with WDR

- Analog video output through RCA connector

- MicroSD/ SDHC card local storage

- Built-in heater and fan, enabling camera in severe environment (-40 ~ 60℃)

- Power over Ethernet (IEEE 802.3af)

- 2 x alarm input, 2 x alarm output

- IP66 rated weatherproof housing

- SSL v3 advanced HTTPS encryption

- Camera tampering detection support

- Supports Samba network storage

- 3GPP mobile surveillance

- 64 channel ZAVIO CamGraba2.0 NVR software

- Multi-lingual user interface

- ONVIF compatible

# Technical Specifications

## Camera

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|---|---|
| **Models** | B7210 2 Megapixel Bullet IP Camera |
| **Image sensor** | 1/2.7" progressive scan CMOS 2 megapixel sensor |
| **Lens** | F1.2, 3 ~ 9mm, vari-focal, auto-iris |
| **Angle of view** | 38° ~ 121° horizontal<br>21° ~ 62° vertical |
| **Digital zoom** | 10x digital |
| **Min illumination** | 0 lux at F1.2 (IR LED on) |
| **IR working distance** | 35m effective range |
| **IR LEDs** | High performance IR LED x 4 (850nm) |
| **Day/Night function** | Mechanical IR cut filter |
| **Shutter time** | 1/2 ~ 1/10000sec. |
| **S/N ratio** | 39dB |

## Video

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

## Audio

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| **Audio streaming** | Two-way (full duplex)<br>Line in & out |
| **Audio compression** | G.711 µ law, a law, AMR |

## Network

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| **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, HTTPS, SSL, TCP/IP, UDP, 3GPP/ISMA RTSP, IGMP, DynDns |
| **Users** | 10 simultaneous users<br>Unlimited number of users using multicast |

## Alarm and Event Support

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| **Alarm and event management** | Input: alarm buffer, motion detection, audio detection, tampering detection<br>Output: network storage, FTP, SMTP, pre-and post alarm buffer |

## System

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| **Connectors** | RJ-45 for Ethernet 10/100 Base-T (with PoE)<br>2 pin terminal blocks for DC power<br>Terminal blocks for 2 alarm input, 2 alarm output ,<br>Audio line input, Audio line output<br>Reset push switch<br>RCA connector for analog video output |

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| **LED Indicator** | System power status indicator<br>Network link indicator<br>MicroSD/ SDHC card status indicator |

## General

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| **Casing** | Aluminum casing |
| **Housing** | Weatherproof IP66-rated |
| **AC power requirement & consumption** | Power requirement:<br>12V DC, 1.5A, Max. 12W<br>Note: while IR on, heater or fan would be activated automatically |
| **PoE power requirement & consumption** | Power requirement:<br>Power over Ethernet IEEE 802.3af<br>Note: while IR on, heater and fan will be disabled |
| **Heater & fan** | Built-in and auto activation<br>Note: Heater will be activated while the B7210 inner temperature drops under 5℃ and fan over 50℃ |
| **Operating conditions** | -40 ~ 60℃ (-40 ~ 140℉) |
| **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)<br>256 MB RAM graphic cards<br>(or equivalent on-board graphic cards)<br>1G RAM<br>Window 2000, 2003, XP, Vista or Windows 7<br>Mac OS Leopard 10.5 |
| **Dimensions (HxWxD)** | 360 x 125 x 250mm (14.2" x 4.9" x 9.8") |
| **Weight** | 1830.8g (4.05lb) excl. power supply |
| **Included accessories** | Quick installation guide, CD (IP Surveillance Software, Intelligent IP Installer, user manuals, and language pack), mounting and connector kits<br>Note: AC power supply not included |
| **Certification** | CE, FCC, RoHS |

## Integration

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| **Video management software** | ZAVIO CamGraba IP System software, for viewing, recording and archiving up to 64 cameras<br>See http://www.zavio.com/product.php?id=50 for more software application |

## Physical Description



PIN1~8: Ground, +12VDC, DI, DO
Digital Output 1, Digital Output 2,
Alarm Input 1, Alarm Input 2

Video Out

MicroSD/ SDHC    DC 12V Power

Reset

NTSC/ PAL Switch

Ethernet/ PoE