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

- 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°C)
- 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
- 32 channel ZAVIO CamGraba NVR software
- Multi-lingual user interface
- Supports ONVIF
## Datasheet  B7210 Bullet IP Camera  
### Technical Specifications

<table>
<thead>
<tr>
<th>Category</th>
<th>Specification</th>
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<tr>
<td><strong>Camera</strong></td>
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<tr>
<td>Models</td>
<td>B7210 2 Megapixel Bullet IP Camera</td>
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<tr>
<td>Image sensor</td>
<td>1/2.7” progressive scan CMOS 2 megapixel sensor</td>
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<tr>
<td>Lens</td>
<td>F1.2, 3 ~ 9mm, vari-focal, auto-iris</td>
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<tr>
<td>Angle of view</td>
<td>38° ~ 121° horizontal, 21° ~ 62° vertical</td>
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<tr>
<td>Digital zoom</td>
<td>10x digital</td>
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</table>
| Min illumination | 0.05 lux at F1.2 (color)  
  0.001 lux at F1.2 (b/w)  
  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**      |                                                                              |
| Video compression | Motion JPEG, MPEG-4, H.264                                               |
| Resolutions    | 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 1920 x 1080  
  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)  
  External microphone input or line input                                     |
| Audio compression | G.711 μ law, a law, AMR                                                |
| **Network**    |                                                                              |
| 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  
  Unlimited number of users using multicast                                   |
| **Alarm and Event Support** | Input: alarm buffer, motion detection, audio detection, tampering detection  
  Output: network storage, FTP, SMTP, pre-and post alarm buffer              |
| **System**     |                                                                              |
| Connectors     | RJ-45 Ethernet 10/100 Base-T  
  DC power Jack  
  3.5mm jack for audio out  
  Reset button                                                               |

### LED Indicator
- MicroSD/ SDHC card slot
- System power status indicator
- Network link indicator
- MicroSD/ SDHC card status indicator

### General
- Casing: Aluminum casing
- Housing: Weatherproof IP66-rated

### AC power requirement
- **Power requirement:** Power requirement: 12V DC, 1.5A, Max. 12W
- **Note:** while IR on, heater or fan would be activated automatically
- **Power consumption:** 3.58W, without IR, heater and fan  
  7.9W, with max. IR on  
  9.6W, with max. IR on / heater on  
  8.87W, with max. IR on / fan on

### PoE power requirement
- **Power requirement:** Power over Ethernet IEEE 802.3af
- **Note:** while IR on, heater and fan will be disabled
- **Power consumption:** 3.59W, without IR, heater and fan  
  7.9W, with max. IR on

### Heater & fan
- Built-in and auto activation
- **Note:** Heater will be activated while the B7210 inner temperature drops under 5°C and fan over 50°C

### Operating conditions
- **-40 ~ 60°C (-40 ~ 140°F)**

### Minimum web browsing requirement
- Pentium 4 2.8GHz (or equivalent AMD)  
  256 MB RAM graphic cards  
  (or equivalent on-board graphic cards)  
  1G RAM  
  Window 2000, 2003, XP, Vista or Windows 7  
  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
- Note: AC power supply not included

### Certification
- CE, FCC, RoHS

### Integration
- Video management software: 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

### Physical Description
- ZAVIO Inc. 2F., No.13, Yafan 2nd Rd., East Dist., Hsinchu City 300, Taiwan

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