

## 2 Megapixel H.264+ ABF Intelligent Box Network Camera

# BH-231NB Premium



- 2 Megapixel high resolution with Sony Exmor CMOS image sensor
- H.264+, H.264 high profile, main profile, baseline and MJPEG simultaneously
- 25 / 30 fps real time at all resolution
- Fast (100Base-TX) Ethernet, support Power over Ethernet: IEEE 802.3af Class3
- Support True WDR & Digital WDR
- Camera tampering, motion detection
- Auto back focus (remote)
- Support various protocols: RTSP, UPnP, , HTTPS, Samba, SNMP, QoS
- Event trigger action: Send to NAS, send to FTP, send to Email, voice alert, notify to HTTP/TCP servers, local mSD card
- Power over Ethernet: IEEE 802.3af Class3
- Open Standard Protocol

### Camera

<b>Image Device</b>	Sony 1/2.8" Exmor™ 2 Megapixel image sensor
<b>Effective Pixels</b>	1920 x 1080
<b>Lens</b>	C/ CS mount, support DC and P-iris lens
<b>Day &amp; Night</b>	TDN (Mechanical ICR)
<b>Min illuminator</b>	Color: 0.01 lux@F1.2(AGC on) B/W: 0.001 lux@F1.2(AGC on)

### Video

<b>Video Encoder</b>	H.264+ H.264 and MJPEG simultaneously H.264 base line, main-profile, and hi-profile
<b>Video Profile</b>	Multi-streaming simultaneously
<b>Frame Rate</b>	Up to 25 / 30fps at all resolutions
<b>Exposure Control</b>	Auto / Hold Exposure / Manual BLC On/Off True WDR / Digital WDR

### Image Setting

<b>Image Setting</b>	<ul style="list-style-type: none"> <li>● AWB</li> <li>● 3D &amp; 2D Noise reduction</li> <li>● Color, brightness, sharpness, contrast, Hue</li> <li>● Image Mirror/Flip</li> <li>● Privacy Masks</li> <li>● DIS</li> <li>● Pixel Count</li> <li>● Anti-False Color</li> <li>● Defog</li> </ul>
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### Privacy Mask

<b>Privacy Mask</b>	7 areas
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### Area of Interest

<b>Area of Interest</b>	Selectable area and quality level
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### On Screen Display

<b>On Screen Display</b>	Text, time and date overlay Editable OSD
<b>Streaming</b>	<ul style="list-style-type: none"> <li>● Simultaneously multi-streaming</li> <li>● Streaming over UDP, TCP, HTTP, or HTTPS</li> <li>● M-JPEG streaming over HTTP (server push)</li> <li>● Controllable frame rate and bandwidth</li> <li>● Constant and variable bit rate</li> <li>● ROI</li> <li>● AOI (Higher Quality in AOI area)</li> </ul>

### Audio

<b>Audio Encoder</b>	RTSP: G.711 64kbps, G.726 32kbps, AAC (optional, by request)
<b>Audio Streaming</b>	One-way or two-way
<b>Microphone</b>	External microphone input
<b>Audio Output</b>	Adjustable audio output gain value

### Network

<b>Supported Protocols</b>	IPv4, IPv6, TCP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, DDNS, DHCP, DIPS, ARP, Bonjour, UPnP, RTSP, RTP, RTCP, IGMP, PPPoE, 3GPP, Samba, ICMP, SNMP, QoS, CoS, 802.1x, iSCSI
<b>Security</b>	Password protection, IP address filtering, HTTPS encrypted data transmission, user access log
<b>Users</b>	20 simultaneous unicast users
<b>Ethernet</b>	10Base-T/100Base-TX auto negotiation

### System Integration

<b>Event Detection</b>	<ul style="list-style-type: none"> <li>● Video motion detection</li> <li>● Camera Tampering</li> <li>● Audio Detection</li> <li>● Digital input</li> <li>● Network Disconnect</li> </ul>
<b>Motion Detection</b>	10-zone video motion detection with included or excluded options

<b>Alarm Events</b>	<ul style="list-style-type: none"> <li>● File upload via FTP or email</li> <li>● File upload via Samba to NAS</li> <li>● Notification via email, HTTP, and TCP</li> <li>● External output activation</li> <li>● Audio alerting output</li> <li>● Push notification to smart phone APP(Afidus)</li> <li>● ICR On/Off</li> <li>● File save to local mSD sard</li> </ul>
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### Video Buffer

<b>Video Buffer</b>	Pre- and post- alarm buffering
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### General

<b>Power Supply</b>	DC 12V
<b>PoE</b>	IEEE 802.3af class 3
<b>Power Consumption</b>	10W with IR LED on (12V DC)

<b>Connectors</b>	<ul style="list-style-type: none"> <li>● RJ-45 10Base-T/100Base-TX</li> <li>● 12VDC</li> <li>● 1 alarm input and 1 output</li> <li>● RS485</li> <li>● Audio out</li> <li>● External Audio input</li> <li>● Compositated video out</li> <li>● Factory default reset</li> <li>● Micro SD card slot</li> </ul>
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### Operating Temperature

<b>Operating Temperature</b>	-20°C to 50°C
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### Operating Humidity

<b>Operating Humidity</b>	10% ~ 90% (non-condensing)
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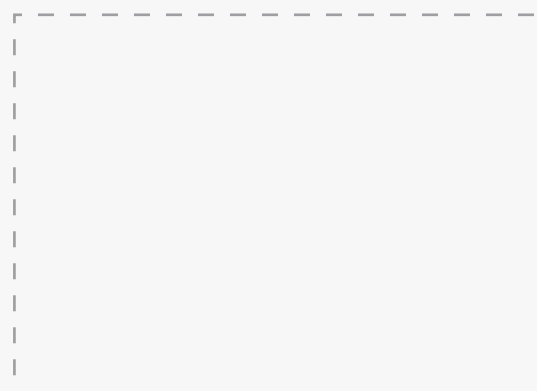
### Viewing System

<b>OS</b>	Windows® 7, 8, 10
<b>Browser</b>	IE 9.0 or later, Mozilla Firefox, Chrome, Safari

### Software

Afidus Cloud Service™, Afidus DDNS Service™, Afidus Smart Phone Apps, Afidus NVR64™

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※ The product design and dimensions may change without previous notice for improvement of performance.

### Dimensions

