

# BlueEyes BE-1204M Network Camera

## 1.3 Megapixel low light and WDR IP camera



### Feature

- 1.3 megapixel SONY 1/3" Progressive Scan CMOS sensor
- Built-in Texas Instruments with image processing DSP chip
- Dual Codec: MPEG-4 and MJPEG
- Supports the SD card as a local storage
- Minimum illumination as low as 0.2 lux in the color mode
- Built-in IR-cut filter with WDR technology for high quality images in high and low light conditions.
- Three storage options (locally to SD; remotely to software client, or web client)
- Instant remote alarm and screen notification
- Advanced VMD (Video Motion Detection) setting (96 zones, 0~100% sensitivity setting).
- Embedded web server and network link
- Supports C/CS Mounts, DC auto iris
- Full duplex / two way audio
- Multi-profile: 3 profiles
- 3GPP mobile surveillance
- Supports 20 languages user interface, including English and Traditional Chinese
- Full range of power options: DC12V / AC 24V / PoE(IEEE 802.3af)

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**BlueEyes**

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### Specification

#### Image System

- Image Sensor: 1/3" megapixel Sony Progressive Scan CMOS
- Lens:
  - 2.9~8.2mm/F1.0
  - C/CS lens mount
- Minimum illumination
  - Color 0.2 lux, F1.2
  - B/W 0.01lux
- Day and night: mechanical IR cut filter (Auto/Day/Night/Schedule)
- WDR: 9 levels (adjustable level settings)
- S/N Ratio: 50db with AGC off

#### Video System

- Video Compression:
  - MJPEG / MPEG-4
  - MPEG-4 frame rate control
  - Customized MPEG-4 bit rate and control
  - MJPEG rate control
- Resolution:
  - 1280 x 960
  - 1280 x 720
  - 640x480
  - 320x240
  - 160x120
- Video frame rate:
  - MPEG-4: Up to 30fps at all resolutions
  - MJPEG: 21 fps at 1280 x 960 only / 25 fps in the rest of resolutions.
- Video streaming:
  - Simultaneous MPEG4 / MJPEG
  - Multi-profile: 3 profiles (MPEG-4 with 960p/ 720p/ 640x480/ 320x240/ 160x120)
  - Controllable frame rate and bandwidth
- Resolution quality: 5 levels (Bitrates from 4Mbps to 64Kbps)
- ePTZ

#### Video output

- 1.0 Vpp, 75 ohm, Composite, Negative, BNCx1
- Internal synchronization

#### Structure

- Processors: TMS320DM355
- OS: Linux 2.6 kernel

#### Image setting

- Auto iris type: DC-iris
- Day and night

- Flip and Mirror
- AGC: 8X, 16X, 32X, 64X
- AWB: Auto/ Outdoor/ Indoor/ Fluorescent
- AES
- WDR
- Sharpness
- Exposure: AES/ Auto-iris
- Power line: 50Hz/ 60Hz
- Brightness
- Contrast
- Saturation
- BLC: switchable
- Auto, manual, scheduled
- Time stamp and text caption overlay.
- Privacy mask: 3 privacy zone
- IP camera name
- OSD:
  - Device name
  - Timestamp Color
  - Timestamp location
  - Timestamp Format
  - IP address
  - Date
  - Time
  - ICON
- Customized Motion

#### Camera shutter

- Electronic shutter: 1/30 – 1/1,000 sec
- High speed shutter: 1/8,000 sec

#### Development tools

- Active X
- HTTP-API
- SDK
- Network API: SDK/ CGI/ DLL

#### Status

- Model Name
- Camera Name
- Time & Date
- Firmware Version
- HTML Version
- Activex Version
- MAC Address
- IP Address
- IP Subnet Mask
- Default Gateway
- Primary DNS
- PPPoE

# BlueEyes BE-1204M Network Camera

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- DDNS
- TV Output Mode
- System Log

### Interface

- Snapshot
- Set storage path
- Full Screen
- Record Switch
- Audio Switch
- Talk Switch
- Digital out
- Zoom
- SD-card recording
- Motion Detection
- Recording Status
- DI/DO

### SD card recording mode

- 24 hours
- Motion detection
- Schedule
- DI
- Disconnection
- API

### Audio

- Mono 1 channel
- Volume Gain setting: Audio in, Audio out
- Microphone : built-in
- Full duplex / Two way / Silence
- Compression: G.726 / G.711( $\mu$ -law).
- Inputs: 1 x digital input (1pin), LINE in 10k ohms 1.0Vpp
- Outputs: 1 x digital output (1pin), 1K ohms

### Security

- Enable secure HTTPS connection
- Create certificate: Auto/ Manual
- Allow/ Refuse access list
- 2-Level password protection
- IP address filtering
- HTTPS encryption
- IEEE 802.1X network access control
- Users:
  - Access by 16 simultaneous users
  - Add/ Delet/ Edit users
  - Manager, Operator, Viewer

### Date and Time

- Automatic time configuration
- Set manually
- Set time zone, format, daylight saving

### Network System

- Ethernet (RJ-45Wired, 10/100 Base-TX), MDIX Support

- Ethernet: 19M bit/sec
- Management console: Full function
- Bandwidth control
- HTTP, HTTPS, RTSP: connect port setting
- VPN setting: DHCP & UPnP
- Upload and download bandwidth setting
- PPPoE setting:
  - user name
  - password
- DDNS setting
  - Server Address
  - Host name
  - User name
  - password
  - Timeout

### Alarm and event management

- Trigger: Advanced MD (96 zone, 0~100% sensitivity setting)
- Alarm trigger source:
  - built-in motion detection
  - external alarm input
  - network disconnected
  - Manual
  - Schedule
  - System boot
- Alarm notification methods
  - SMTP
  - HTTP
  - FTP
  - SD card
  - Alarm output
  - Network Storage
- Pre-alarm recording: 0~4 sec
- Schedule counts: 3
- Alarm duration
- Event setting:
  - Server
  - Media
  - Event
  - Recording

### Connector

- NTSC/ PAL
- RJ-45: 10BASE-T/100BASE-TX.
- Digital I/O:
  - 1 x digital input (2pins)
  - 1 x digital output (2pins)
  - 1 x reset (2pins)
  - 1 x audio input (1pin)
  - 1 x audio output (1pin)
- DC Output (1pin): 5VDC, 200mA/ GND (1pin)
- RS485 (D+, D-) x1

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- BNC x1
- DIP Switch:
  - AES
  - DC iris
  - DHCP
  - Static IP
- SD-Card slot
- USB 2.0 x1

### PTZ Support

- Protocol: Pelco-D/ Pelco-P
- RS-485 connect for Pan/ Tilt/ Zoom
- Setting:
  - ID
  - Baud Rate
  - Data Bits
  - Parity Bit
  - Stop Bit

### USB

- Type: USB 2.0
- Network settings configurable

### Power and LED

- LED indicators:
  - Power
  - Network
  - SD card.
- Power:
  - 12V DC (DC power jack)
  - 24V AC (2pin terminal block)
  - PoE (IEEE 802.3af, Class 3)
- Power input:
  - On
  - Off
  - IR-CUT
  - Schedule

### Operating environment

- Operation temperature: 0 ~ 50°C
- Storage temperature: -20°C ~ 60°C
- Operation Humidity: 30% ~ 80%

### Installation and Maintain

- Upgrade Software: HTTP/ SD-Card
- Reset: Reset for factory default.
- Reboot device via IE browser
- Save and load configuration

### Hardware

- CPU: Texas Instruments DaVinci, 32bit processor
- RAM: DDRII 1GB
- Flash memory: 256MB
- Battery for real-time clock
- Watchdog function

### Storage System

- SD Card support: MMC/SD/SDHC 2.0 32MB~32GB
- File System : FAT32/16/12
- Playback via internet
- SD card brand :
  - A-Data
  - PQI
  - Toshiba
  - Transcend
  - A-Pacer
  - Photo Fast

### Protocols

- IPv4, ARP, TCP, UDP, ICMP, DHCP, DNS, DDNS, HTTP Server, PPPoE, IP filtering, RTP/RTSP/RTCP, RTSP over UDP, Multicast, HTTPS, UPnP Port Forwarding, Samba client, FTP, SMTP, NTP, 3GPP

### Regulation

- FCC, CE, RoHS

### Dimension

- 68 (W) x 56.5 (H) x 114.5 (D) mm
- Weight: 360g

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