

BlueEyes BE-4211H Video Encoder

Professional 3-mode video encoder

www.BlueEyes.com.tw



Feature

- Built-in Texas Instruments with image processing DSP chip
- Three Codec: MPEG-4, MJPEG, H.264
- 30fps@ 720x480 (Full D1)
- Built-in RS-485 to support wide range of PTZ cameras
- I/O: alarm input x6, alarm output x6, reset x1
- Web server built-in Active X and AJAX
- Support Network Time Protocol (NTP)
- Supports the SD card as a local storage
- USB interface for setup
- Digitizes video signal and transmits via TCP /IP network
- Supports MJPEG and AVI video mode, can be set the number of sheets and video length
- Advanced VMD (Video Motion Detection) setting (96 zones, 0~100% sensitivity setting)
- 1 channel Video and 1 channel Audio input
- Multi-profile: 4 profiles
- Supports 16 languages user interface, including English and Traditional Chinese
- Full range of power options: DC12V / AC 24V / PoE(IEEE 802.3af)

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Specification

Video System

- Video Compression:
 - MJPEG / MPEG-4/ H.264
 - MJPEG frame rate control
 - Customized H.264 bit rate and control
 - H.264 rate control
- Resolution:
 - NTSC: 720x480(D1)/ 720x240(2CIF)/ 352x240(CIF)
 - PAL: 720x576(D1)/ 720x288(2CIF)/ 352x288(CIF)
- Video frame rate: MPEG-4/ MJPEG/ H.264: up to 30(25)fps at all resolutions
- Video streaming:
 - Simultaneous MPEG4/ MJPEG/ H.264
 - Multi-profile: 4 profiles
 - Controllable frame rate and bandwidth
- Intra Frame Period: 1/3 s, 1/2 s, 1 s, 2 s
- Resolution quality: 5 levels
- Image size: 4~64 KB
- ePTZ

Video output

- 1.0 Vpp, 75 ohm, Composite, Negative, BNCx1
- Frequency: -3dB+/-1dB at 3 MHz
- Burst level:
 - NTSC : 286mv +/-10%
 - PAL : 300mv +/- 10%
- Internal synchronization

Image setting

- NTSC/ PAL
- AWB: Auto/ Outdoor/ Indoor/ Push Hold
- Flickless
- Mirror
- BLC: switchable
- Brightness
- Contrast
- Saturation
- Sharpness
- Time stamp:
 - Title
 - time
 - date
- Privacy mask: 3 privacy zone
- IP camera name (maximum 11 characters)
- OSD:
 - Timestamp Label
 - Timestamp Color
 - Timestamp location
 - Timestamp Format

- IP address
- Date
- Time
- ICON

Remote Access

- Mozilla, Opera, Microsoft Internet Explorer 6.0 or above
- H.264 mode: support unicast and multicast

Audio

- Mono 1 channel
- RCA Audio in : 1 channel, 16 kHz sampling, u-law
- RCA Audio out : 1 channel, 16 kHz sampling, u-law
- Volume Gain setting: Audio in, Audio out
- Microphone : built-in
- Compression: G.726 / G.711
- Inputs: LINE in 10k ohms 1.0Vpp
- Outputs: 1K ohms
- Network Audio Stream: Available

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
- LAN setting:
 - DHCP & UPnP
 - DHCP: IP address, Subnet mask, Gateway, Primary DNS
 - UPnP port forwarding and test
- Upload and download bandwidth setting
- PPPoE setting:
 - user name
 - password
- DDNS setting
 - Server Address
 - Host name
 - User name
 - Password
 - Timeout
 - Status
- Recording via IE browser
- Connect to the internet via ADSL, CABLE, modem

Security

- Create certificate: Auto/ Manual

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- Allow/ Refuse access list
- 3-Level password protection
- IP address filtering
- HTTPS encryption
- Users:
 - Access by 16 simultaneous users
 - Add/ Delete/ Edit users
 - Manager, Operator, Viewer

Alarm and event management

- Trigger: Advanced MD (96 zone, 0~100% sensitivity setting)
- Pre-alarm recording: 0~4 sec, 6MB (MJPEG)
- Alarm trigger source:
 - built-in motion detection
 - Schedule
 - Alarm input
 - Ethernet loss Network
 - Remote digital alarm input
 - Timing Trigger
 - Reboot
- Action:
 - Email
 - FTP
 - SD card
 - Network Storage
- Schedule counts: 7
- Alarm duration: Programmable
- Event setting:
 - Server
 - Media
 - Event
 - Recording
- Video Loss auto detection: send alarm via HTTP or TCP/IP

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
- 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

PTZ Support

- Protocol: Pelco-D/ Pelco-P
- RS-485: connect to PTZ (Pan/Tilt/Zoom) cameras
- Setting:
 - ID
 - Baud Rate
 - Data Bits
 - Parity Bit
 - Stop Bit

USB

- Type: USB 2.0
- Network settings configurable

Connector

- RJ-45: 10BASE-T/100BASE-TX
- NTSC/ PAL
- Transfer analog video via BNC, F-type, AV connector
- Digital I/O:
 - alarm input x6
 - alarm output x6
 - reset x1
 - GND x6
 - audio input x1
 - audio output x1
 - DC Output x1
- RS485 (D+, D-) x2
- DIP Switch:
 - AES
 - DC iris
 - DHCP
 - Static IP
- SD-Card slot (SDHC, recording in JPEG Snapshot / AVI File)
- USB 2.0 x1
- 2-pin push-in block for power

SD card recording mode

- 24 hours
- Motion detection
- Schedule
- DI

BlueEyes

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- Disconnection
- API

Development tools

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

Installation and Maintain

- Setting IP address via USB
- Automatically on-line in 60 sec
- Upgrade firmware: HTTP/ SD-Card/ FTP
- Save and load configuration
- Reboot device via IE browser
- Reset: Reset for factory default.

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

Power and LED

- LED indicators:
 - Power
 - Status
 - Network connect
 - Network operation
 - System operation
 - System warning
- Power:
 - 12V DC (TBD Watt)
 - 24V AC
 - PoE (IEEE 802.3af, Class 3)
- Fan-less and move component

Protocols

- TCP/IP, HTTP, SNTP, UPnP, IPv4, ARP, TCP, UDP, ICMP, DHCP, DNS, DDNS, PPPoE, FTP, SMTP, IP filtering, RTSP

Operating environment

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

Regulation

- FCC
- CE
- RoHS

Dimension and weight

- 176(W) x 320(H) x 496(D)mm
- 360 g

*Design and specifications are subject to change without notice.

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