



## **IP7142 Fixed Network Camera**

# **WDR · Outdoor · Day & Night**

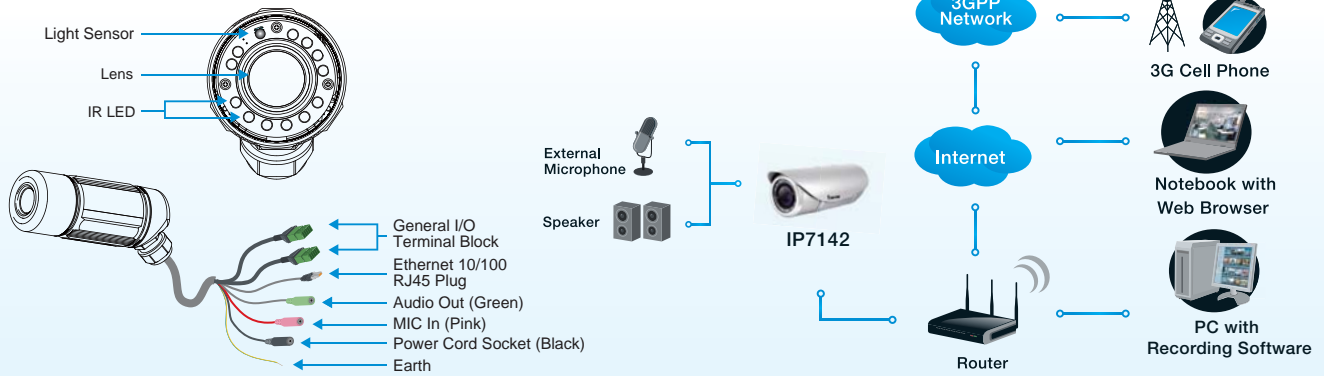
VIVOTEK introduces its first outdoor day/night network camera IP7142, which is equipped with a wide dynamic range CMOS sensor to cope with any challenging lighting conditions. Designed for outdoor 24-hour surveillance, IP7142 features the basics of day and night and vandal-proof functions that users can easily build up a cost-effective IP surveillance system without additional accessories. With a removable IR-cut filter and built-in IR illuminators, up to 15m, it can automatically remove the filter and turn on the IR illuminators during the nighttime to accept IR illumination for low light sensitivity. Meanwhile, the IP66-rated integrated housing shields this camera from dust and water, allowing it to be applied in harsh weather conditions of outdoor environments. IP7142 with WDR(Wide dynamic range) feature can be very helpful to cope with very challenging lighting conditions. It is capable of capturing both of the dark part and bright part and combining the differences into a scene to generate a highly realistic image as original scene. Because it preserves as much information in the video as possible, IP7142 helps provide video quality closer to the capabilities of the human eye. Consequently, it is largely applied in highly contrast environments such as lobby entrances, parking lots, ATM, loading areas and much more. Incorporating numbers of advanced features including simultaneous dual streams, 3GPP mobile surveillance, 802.3af compliant PoE, two-way audio by SIP protocol, RS-485 interface for scanners or pan/tilts driver connection, and HTTPS encrypted data transmission. VIVOTEK IP7142 allows users to boost your robust IP surveillance system by reproducing clear images in proper color in extreme high-contrast environments for your indoor/outdoor security and monitoring applications.

### **Features**

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- Wide Dynamic Range CMOS Sensor
- 3.3~12mm Vari-focal Board Lens with Auto-Iris
- Removable IR-cut Filter for Day & Night Function
- Built-in IR Illuminators up to 15 Meters
- IP66-rated Housing for Weather-proof
- Real-time MPEG-4 and MJPEG Compression (Dual Codec)
- Supports Dual Streams Simultaneously
- Built-in 802.3af Compliant PoE (Power over Ethernet)
- Two-way Audio by SIP Protocol
- Digital I/O for External Sensor and Alarm
- RS-485 Interface for Scanners, Pan/Tilts

## System Overview



## Specifications

### System

- CPU: VVTK-1000 SoC
- Flash: 8MB
- RAM: 64MB
- Embedded OS: Linux 2.4

### Lens

- Board lens, vari-focal,  $f=3.3\text{ mm} \sim 12\text{ mm}$ , F1.4~2.9, auto-iris (DC), focus range: 50 cm to infinity
- Removable IR-cut filter: Auto/Schedule

### Angle of view

- $23^\circ \sim 85.2^\circ$  (horizontal)
- $14.8^\circ \sim 51.6^\circ$  (vertical)

### Shutter Time

- 1/30 sec. to 1/15000 sec.

### Image Sensor

- 1/3.3" Wide Dynamic Range CMOS Sensor

### Minimum Illumination

- 0 Lux with IR Illuminators

### Video

- Compression: MJPEG & MPEG-4
- Streaming:
  - Simultaneous dual-streaming
  - MPEG-4 streaming over UDP, TCP, or HTTP
  - MPEG-4 multicast streaming
  - MJPEG streaming over HTTP
- Supports 3GPP mobile surveillance
- Frame rates: 720x480 up to 25fps

### Image settings

- Adjustable image size, quality, and bit rate
- Time stamp and text caption overlay
- Flip & mirror
- Configurable brightness, contrast, and saturation
- AGC, AWB, AEC
- Automatic or manual day/night mode
- Supports privacy masks

### Audio

- Compression:
  - GSM-AMR speech encoding, bit rate: 4.75 kbps to 12.2 kbps
  - MPEG-4 AAC audio encoding, bit rate: 16 kbps to 128 kbps
- Interface:
  - External microphone input
  - Audio output
- Supports two-way audio by SIP protocol
- Supports audio mute

### Networking

- 10/100 Mbps Ethernet, RJ-45
- Protocols: IPv4, TCP/IP, HTTP, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, and PPPoE

### Alarm and Event Management

- Triple-window video motion detection
- One D/I and one D/O for external sensor and alarm
- IR Illuminators up to 15 meters
- Event notification using HTTP, SMTP, or FTP
- Local recording of MP4 file

### Security

- Multi-level user access with password protection
- IP address filtering

### Users

- Camera live viewing for up to 10 clients

### Dimension

- 180 mm (D) x 70 mm (W) x 70 mm (H)

### Weight

- Net: 969 g

### LED Indicator

- System power and status indicator
- System activity and network link indicator

### Power

- 12V DC, 24V AC
- Consumption: Max 6 W
- 802.3af compliant Power over Ethernet

### Approvals

- CE, FCC, C-Tick, LVD, VCCI

### Operating Environments

- Temperature:  $0^\circ \sim 50^\circ\text{C}$  ( $32^\circ \sim 122^\circ\text{F}$ )
- Humidity: 20 % ~ 80 % RH
- IP66-rated housing for weatherproof

### Viewing System Requirements

- OS: Microsoft Windows 2000/XP/Vista
- Browser: Internet Explorer 6.x or above
- Cell phone: 3GPP player
- Real Player: 10.5 or above
- Quick Time: 6.5 or above

### Installation, Management, and Maintenance

- Installation Wizard 2
- 16-CH recording software
- Supports firmware upgrade

### Applications

- SDK available for application development and system integration

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