



IP7142 Fixed Network Camera

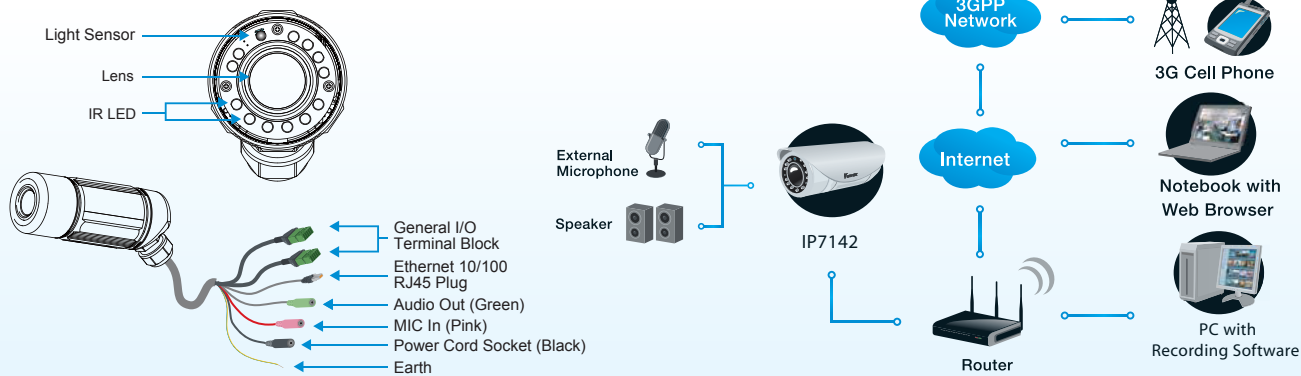
WDR · Outdoor · Day & Night

VIVOTEK IP7142 network camera features a WDR (Wide Dynamic Range) CMOS sensor to cope with any challenging lighting conditions. The WDR feature captures both of the dark part and bright part and combining the differences into a scene to generate a highly realistic image as original scene. Therefore, IP7142 can provide video quality closer to the capabilities of the human eye. This function enables IP7142 to be largely applied in highly contrast environments such as lobby entrances, parking lots, ATM, loading areas and much more. The day and night function and the IP66-rated integrated housing of IP7142 enable users to easily build up a cost-effective IP surveillance system without additional accessories. Incorporating an IR-cut filter that can be removed automatically at night and built-in IR illuminators with coverage for up to 15 meters, IP7142 is an outstanding 24-hour surveillance solution. 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. Other advanced features of IP7142 include 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.

Features

- 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 (wide), F2.9 (tele), 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 in 720x480 resolution

Minimum Illumination

- 0.68 Lux/F1.4

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:
 - MPEG-4: Up to 25 fps at 720x480
 - MJPEG: Up to 25 fps at 720x480

Image settings

- Adjustable image size, quality, and bit rate
- Time stamp and text caption overlay
- Flip & mirror
- Configurable brightness, contrast, saturation, and hue
- AGC, AWB, AEC, WDR
- 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

Power

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

Approvals

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

Operating Environments

- Temperature: $-20^\circ \sim 60^\circ\text{C}$ ($-4^\circ \sim 140^\circ\text{F}$)
- 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