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|---|---|
| <b>System</b> <ul style="list-style-type: none"> <li>CPU: VVTK-1000 SoC</li> <li>Flash: 8MB</li> <li>RAM: 64MB</li> <li>Embedded OS: Linux 2.4</li> </ul>   | <b>Alarm and Event Management</b> <ul style="list-style-type: none"> <li>Triple-window video for motion detection</li> <li>One D/I and one D/O for external sensor and alarm</li> <li>Event notification using HTTP, SMTP or FTP</li> <li>Local recording of MP4 files</li> </ul> |
| <b>Lens</b> <ul style="list-style-type: none"> <li>CS-mount, vari-focal, f = 2.9 ~ 8.2 mm, F1.0, auto-iris</li> <li>IR Corrected</li> <li>Removable IR-cut filter for day &amp; night function</li> </ul>   | <b>Security</b> <ul style="list-style-type: none"> <li>Multi-level user access with password protection</li> <li>IP address filtering</li> </ul>  |
| <b>Angle of view</b> <ul style="list-style-type: none"> <li>26.7° ~ 69.0° (horizontal)</li> <li>20.0° ~ 51.0° (vertical)</li> </ul>   | <b>Users</b> <ul style="list-style-type: none"> <li>Camera live viewing for up to 10 clients</li> </ul>   |
| <b>Shutter Time</b> <ul style="list-style-type: none"> <li>1/30 sec. to 1/15000 sec.</li> </ul>   | <b>Dimension</b> <ul style="list-style-type: none"> <li>205.5 mm (D) x 82.1 mm (W) x 51.2 mm (H)</li> </ul>   |
| <b>Image Sensor</b> <ul style="list-style-type: none"> <li>SONY 1/4" progressive scan CCD sensor in VGA resolution</li> </ul>   | <b>Weight</b> <ul style="list-style-type: none"> <li>Net: 545 g</li> </ul>  |
| <b>Minimum Illumination</b> <ul style="list-style-type: none"> <li>1.0 Lux / F1.0</li> </ul>  | <b>LED Indicator</b> <ul style="list-style-type: none"> <li>System power and status indicator</li> <li>System activity and network link indicator</li> </ul>  |
| <b>Video</b> <ul style="list-style-type: none"> <li>Compression: MJPEG &amp; MPEG-4</li> <li>Streaming:                             <ul style="list-style-type: none"> <li>Simultaneous dual-streaming</li> <li>MPEG-4 streaming over UDP, TCP or HTTP</li> <li>MPEG-4 multicast streaming</li> <li>MJPEG streaming over HTTP</li> </ul> </li> <li>Supports 3GPP mobile surveillance</li> <li>Frame rates:                             <ul style="list-style-type: none"> <li>MPEG-4: Up to 30/25 fps at 640x480</li> <li>MJPEG: Up to 30/25 fps at 640x480</li> </ul> </li> </ul>                | <b>Power</b> <ul style="list-style-type: none"> <li>12V DC</li> <li>24V AC</li> <li>Power consumption: Max. 7.5 W</li> <li>802.3af compliant Power-over-Ethernet</li> </ul>   |
| <b>Image settings</b> <ul style="list-style-type: none"> <li>Adjustable image size, quality and bit rate</li> <li>Time stamp and text caption overlay</li> <li>Flip &amp; mirror</li> <li>Configurable brightness, contrast, saturation and sharpness</li> <li>AGC, AWB, AES</li> <li>Automatic or manual day/night mode</li> <li>Backlight compensation (BLC)</li> <li>Supports privacy masks</li> </ul>   | <b>Approvals</b> <ul style="list-style-type: none"> <li>CE, LVD, FCC, VCCI, C-Tick</li> </ul>   |
| <b>Audio</b> <ul style="list-style-type: none"> <li>Compression:                             <ul style="list-style-type: none"> <li>GSM-AMR speech encoding, bit rate: 4.75 kbps to 12.2 kbps</li> <li>MPEG-4 AAC audio encoding, bit rate: 16 kbps to 128 kbps</li> </ul> </li> <li>Interface:                             <ul style="list-style-type: none"> <li>Built-in microphone</li> <li>External microphone input</li> <li>Audio output</li> <li>External/Internal microphone switch</li> </ul> </li> <li>Supports two-way audio via SIP protocol</li> <li>Supports audio mute</li> </ul> | <b>Operating Environments</b> <ul style="list-style-type: none"> <li>Temperature: 0 ~ 50 °C (32 ~ 122 °F)</li> <li>Humidity: 20% ~ 80% RH</li> </ul>  |
| <b>Networking</b> <ul style="list-style-type: none"> <li>10/100 Mbps Ethernet, RJ-45</li> <li>Protocols: IPv4, TCP/IP, HTTP, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS and PPPoE</li> </ul>  | <b>Viewing System Requirements</b> <ul style="list-style-type: none"> <li>OS: Microsoft Windows 2000/XP/Vista</li> <li>Browser: Internet Explorer 6.x or above</li> <li>Cell phone: 3GPP player</li> <li>Real Player: 10.5 or above</li> <li>Quick Time: 6.5 or above</li> </ul>  |
|   | <b>Installation, Management, and Maintenance</b> <ul style="list-style-type: none"> <li>Installation Wizard 2</li> <li>16-CH recording software</li> <li>Supports firmware upgrade</li> </ul>   |
|   | <b>Applications</b> <ul style="list-style-type: none"> <li>SDK available for application development and system integration</li> </ul>  |
|   | <b>Warranty</b> <ul style="list-style-type: none"> <li>24 months</li> </ul>   |

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## Fixed Network Camera

# IP7251

Intelligent Video · Day&Night



IP7251, the newest addition to VIVOTEK's progressive-scan product lineup, features video content analysis that can analyze video images immediately without the need for additional software. The three types of intelligent detection provide an improved ability to monitor tasks, freeing an operator from constant supervision of a camera.

Incorporating a powerful DSP (Digital Signal Processor) dedicated to performing video content analysis, the IP7251 features three reliable and powerful detection modes: tampering detection, moving object detection, and loitering detection. With tampering detection, the IP7251 is capable of detecting incidents such as shooting redirection, blocking or defocusing of cameras, or even spray-paint incidents. For the motion detection function, the IP7251 is able to distinguish between an object's motions and still backgrounds or natural movements such as swaying trees, waves, or sunsets so as to prevent false alarms due to environmental noise. By enabling the loitering detection function, an alarm will be triggered once the loitering time of a suspicious object in the predefined area (window) is longer than the preset target.

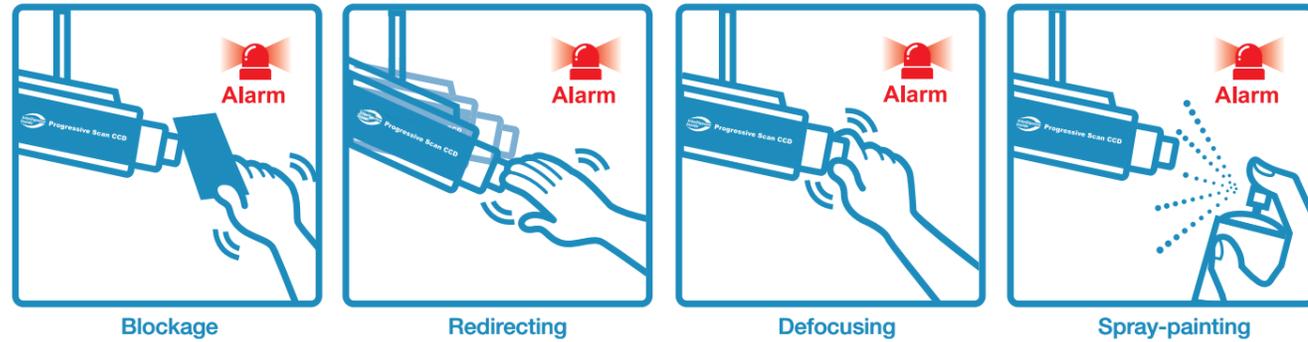
Instead of using a back-end software platform, the integration of video content analysis in the network camera itself greatly reduces server workload, network bandwidth consumption, and storage requirements. By installing the IP7251 and its intelligent detection functions, the user can effectively prevent unwanted noise from accidentally triggering an alarm, providing a more reliable surveillance solution.



## An Intelligent Solution for Professional Applications

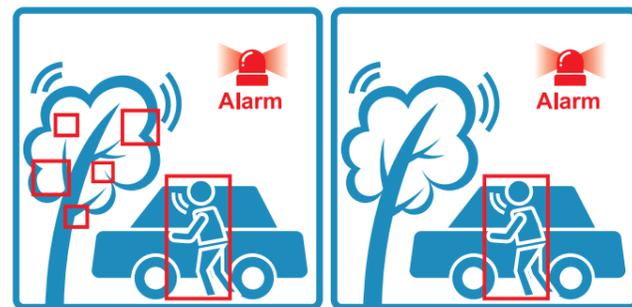
### Tamper Detection

Tamper detection can detect and respond when the camera is redirected, defocused, blocked or spray-painted. It allows cameras to be installed in tampering-prone places such as transportation stations or prisons.



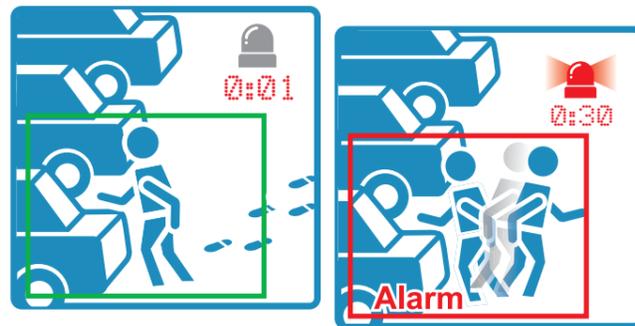
### Intelligent Motion Detection

Intelligent motion detection can distinguish object motions from natural movements and trigger alarms based simply on object motions. The function, mainly for outdoor applications, can eliminate false alarm rates due to environmental noise that appears with conventional motion detection.



### Loitering Detection

Loitering detection can detect an object or a person that has been staying in a predefined area over a given time. The function effectively prevents crimes because suspicious objects or activities are detected before damage is caused.



## Uncompromising Image Quality at All Times

### Progressive Scan CCD

Progressive scan can solve jagged edge problems when displaying moving objects, delivering razor-sharp, clear, and high-resolution images that traditional interlaced-scan techniques can not achieve.



Interlaced Scan

Progressive Scan

### Consistent Image Quality for 24 hours

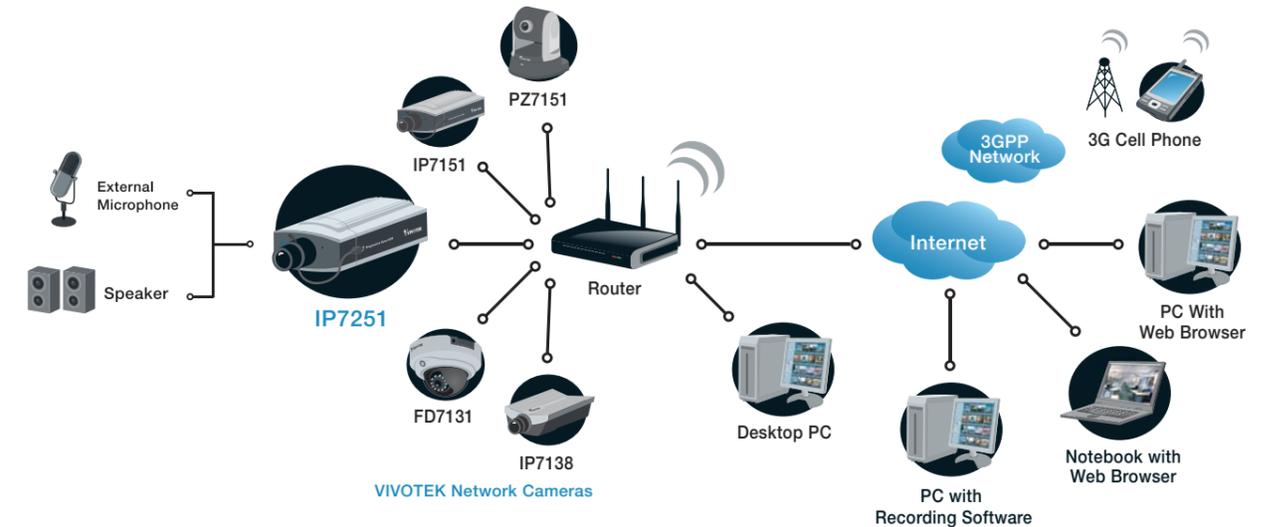
IP7251 provides day & night functionality with a built-in removable IR-cut filter. By day the IR-cut filter screens out infrared light to reduce color distortion and at night the filter is removed to accept infrared light so as to enhance camera night vision.



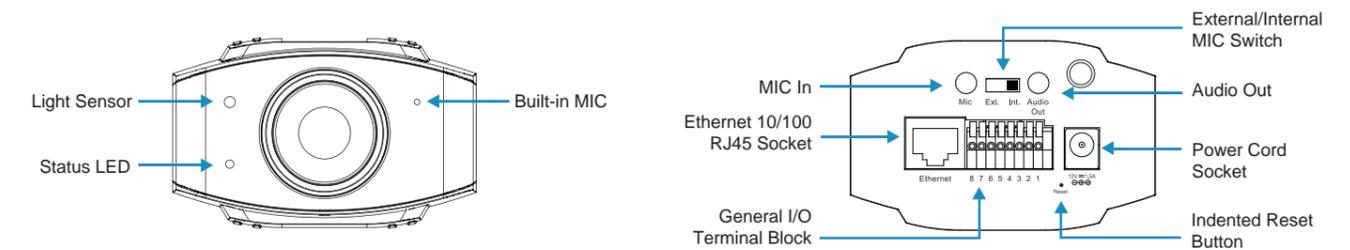
Day

Night

## System Overview



## External View



## Versatile Applications



## Product Features

- Embedded Video Content Analysis Capability
- Progressive Scan CCD Sensor in VGA Resolution
- 2.9 ~ 8.2 mm Vari-focal, Auto-iris Lens
- Removable IR-cut Filter for Day & Night Function
- 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 via SIP Protocol
- Digital I/O for External Sensor and Alarm
- RS-485 Support for Scanners, Pan/Tilts
- Includes Standard 16-CH Recording software

