



# FD8161

Fixed Dome Network Camera

**2MP · H.264 · Day & Night**

VIVOTEK FD8161 is a professional-series fixed dome network camera featuring superb image quality and exceptional bandwidth efficiency. It is especially suitable for wide open spaces such as building entrances and airports, or applications requiring accurate identification of human faces or license plate numbers.

Featuring a 2-megapixel sensor, this camera is able to provide extremely wide coverage with the finest details. With a field of view 6 times larger than a VGA camera, the FD8161 significantly reduces the number of cameras installed.

The FD8161 supports H.264 compression technology, drastically reducing file sizes by 90%. The cropping function removes unnecessary information and transmits only the designated image to optimize bandwidth and storage usage, and the ePTZ feature enables users to focus on close-up shots of different areas in the camera's view without moving the camera physically. Together with multiple streams which transmit individually configured video feeds simultaneously for viewing on different platforms, the FD8161 is able to meet a diverse set of needs and bandwidth constraints.

The camera also comes equipped with a removable IR-cut filter and IR illuminators (15 meters) to provide great clarity and contrast 24 hours a day. Other advanced features include a PIR (Passive Infrared) sensor, a 3-axis mechanism for flexible installation, 802.3af PoE, SD/SDHC card slot, tamper detection, and SIP-enabled two-way audio. With the included ST7501 32-CH central management software, the FD8161 is the ultimate camera for demanding environments.

## Features

- > 2-megapixel CMOS Sensor
- > 3 ~ 9 mm Vari-focal, Auto-iris Lens
- > Removable IR-cut Filter for Day and Night Function
- > Built-in IR Illuminators, effective up to 15 Meters
- > Real-time H.264, MPEG-4, and MJPEG Compression (Triple Codec)
- > Multiple Streams Simultaneously
- > Video Cropping for Bandwidth Saving
- > ePTZ for Data Efficiency
- > Activity Adaptive Streaming for Dynamic Frame Rate Control
- > 3-axis Mechanical Design for Ceiling/Wall Mount Installation
- > Built-in PIR Sensor for Human Detection
- > Built-in 802.3af Compliant PoE

<b>System</b>	<ul style="list-style-type: none"> <li>CPU: TI DM365 SoC</li> <li>Flash: 128MB</li> <li>RAM: 256MB</li> <li>Embedded OS: Linux 2.6</li> </ul>	<b>Users</b>	<ul style="list-style-type: none"> <li>Live viewing for up to 10 clients</li> </ul>
<b>Lens</b>	<ul style="list-style-type: none"> <li>Tamron: 1/3" Board lens, Vari-focal, f = 3 ~ 9 mm, F1.2, Auto-iris</li> <li>Removable IR-cut filter for day &amp; night function</li> </ul>	<b>Dimension</b>	<ul style="list-style-type: none"> <li>Ø 143 mm x 106 mm</li> </ul>
<b>Angle of View</b>	<ul style="list-style-type: none"> <li>31.7° ~ 93° (horizontal)</li> <li>23.8° ~ 68.4° (vertical)</li> <li>39.6° ~ 118.9° (diagonal)</li> </ul>	<b>Weight</b>	<ul style="list-style-type: none"> <li>Net: 673 g</li> </ul>
<b>Shutter Time</b>	<ul style="list-style-type: none"> <li>1/5 sec. to 1/40,000 sec.</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>Image Sensor</b>	<ul style="list-style-type: none"> <li>1/3.2" CMOS sensor in 1600x1200 resolution</li> </ul>	<b>Power</b>	<ul style="list-style-type: none"> <li>12V DC</li> <li>Power consumption: Max. 11 W</li> <li>802.3af compliant Power-over-Ethernet</li> </ul>
<b>IR Illuminators</b>	<ul style="list-style-type: none"> <li>Built-in IR illuminators, effective up to 15 meters</li> </ul>	<b>Approvals</b>	<ul style="list-style-type: none"> <li>CE, LVD, FCC, VCCI, C-Tick</li> </ul>
<b>Video</b>	<ul style="list-style-type: none"> <li>Compression: H.264, MPEG-4, &amp; MJPEG</li> <li>Streaming: <ul style="list-style-type: none"> <li>Simultaneous multi-streaming</li> <li>H.264 streaming over UDP, TCP, HTTP, or HTTPS</li> <li>MPEG-4 streaming over UDP, TCP, HTTP, or HTTPS</li> <li>MPEG-4 multicast streaming</li> <li>MJPEG streaming over HTTP or HTTPS</li> </ul> </li> <li>Supports activity adaptive streaming for dynamic frame rate control</li> <li>Supports video cropping for bandwidth efficiency</li> <li>Supports ePTZ for data efficiency</li> <li>Supports 3GPP mobile surveillance</li> <li>Frame rates: <ul style="list-style-type: none"> <li>H.264: up to 30 fps at 800x600 up to 10 fps at 1600x1200</li> <li>MPEG-4: up to 30 fps at 800x600 up to 10 fps at 1600x1200</li> <li>MJPEG: up to 30 fps at 800x600 up to 15 fps at 1600x1200</li> </ul> </li> <li>Interface: <ul style="list-style-type: none"> <li>AV output</li> <li>NTSC/PAL video output switch</li> </ul> </li> </ul>	<b>Operating Environments</b>	<ul style="list-style-type: none"> <li>Temperature: 0 ~ 50 °C ( 32 ~ 122 °F)</li> <li>Humidity: 90% RH</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, sharpness, white balance, and exposure</li> <li>AGC, AWB, AES</li> <li>Automatic, manual, or scheduled day/night mode</li> <li>BLC (Backlight Compensation)</li> <li>Supports privacy masks</li> </ul>	<b>Viewing System Requirements</b>	<ul style="list-style-type: none"> <li>OS: Microsoft Windows 2000/XP/Vista</li> <li>Browser: Mozilla Firefox, 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>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>Installation, Management, and Maintenance</b>	<ul style="list-style-type: none"> <li>3-axis mechanism for flexible ceiling and wall mount installation</li> <li>Camera angle adjustment: horizontal 350° and tilt 85°</li> <li>Installation Wizard 2</li> <li>32-CH ST7501 central management software</li> <li>Supports firmware upgrade</li> </ul>
<b>Networking</b>	<ul style="list-style-type: none"> <li>10/100 Mbps Ethernet, RJ-45</li> <li>Protocols: IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, and 802.1x</li> </ul>	<b>Applications</b>	<ul style="list-style-type: none"> <li>SDK available for application development and system integration</li> </ul>
<b>Alarm and Event Management</b>	<ul style="list-style-type: none"> <li>Triple-window video motion detection</li> <li>Tamper detection</li> <li>One D/I and one D/O for external sensor and alarm</li> <li>PIR (Passive Infrared Sensor) for human detection</li> <li>Event notification using HTTP, SMTP, or FTP</li> <li>Local recording of MP4 file</li> </ul>	<b>Warranty</b>	<ul style="list-style-type: none"> <li>24 months</li> </ul>
<b>On-board Storage</b>	<ul style="list-style-type: none"> <li>SD/SDHC card slot</li> <li>Stores snapshots and video clips</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> <li>HTTPS encrypted data transmission</li> <li>802.1X port-based authentication for network protection</li> </ul>		

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