VIVOTEK FD8171 is a professional indoor dome network camera offering 30 fps @ 3-Megapixel or 60 fps @ 1080p resolution with superb image quality. As a professional day/night camera, FD8171 adopts a Smart IR technology which prevents overexposure and provides noise reduction to adjust the IR lighting intensity instantaneously based on the changes of lights in the ambient environment.

Featuring 3D Noise Reduction Technology, it enables the FD8171 to capture clear, polished video under low-light conditions, which also helps to reduce bandwidth from sensor noise. Combined WDR Enhanced technology, users can identify image details in extremely bright as well as dark environments.

In addition, FD8171 implements Smart Stream Technology, which allows users to set region of interests (ROIs) for improved clarity without raising the bitrate so as to optimize storage and bandwidth efficiency.

To provide top-notch image quality, FD8171 also comes with a P-iris lens, which controls the iris with extreme precision with its built-in stepper motor. By using software controls, the lens maintains the iris opening at an optimal level at all times, resulting in superior sharpness and depth of field as well as image quality. Furthermore, for installers, properly adjusting the focus of a megapixel network camera can be difficult due to the image detail. Thus, FD8171 is also designed with VIVOTEK’s Smart Focus System to make installation and adjustment easier by allowing remote focus and zoom adjustment.
### Technical Specifications

**Model:** FD8171

**System Information**
- **CPU:** Multimedia SoC (System-on-Chip)
- **Flash:** 256 MB
- **RAM:** 512 MB

**Camera Features**
- **Image Sensor:** 1/2.8" Progressive CMOS
- **Maximum Resolution:** 2048x1536
- **Lens Type:** Var-focal, remote focus
- **Focal Length:** f = 3 ~ 10 mm
- **Aperture:** F1.3 ~ F2.5
- **Auto-iris:** P-iris/DC-iris (Reserved)
- **Field of View:** 31° ~ 91° (horizontal), 24° ~ 68° (vertical), 39° ~ 117° (diagonal)
- **Shutter Time:** 1/5 sec. to 1/8000 sec.
- **WDR Technology:** WDR Enhanced
- **Day/Night:** Removable IR-cut filter for day & night function
- **Minimum Illumination:** 0.1 Lux @ F1.3 (Color), 0.001 Lux @ F1.3 (BW)
- **Pan/Tilt/zoom:** ePTZ
- **Functionality:** 48x digital zoom (4x on IE plug-in, 12x built in)
- **IR Illuminators:** Built-in IR illuminators, effective up to 20 meters
- **On-board Storage:** MicroSD/SDHC/SDXC card slot

**Video**
- **Compression:** H.264, MJPEG
- **Maximum Frame Rate:** H.264: 30 fps at 2048x1536, 60 fps at 1920x1080
- **Maximum Resolution:** 30 fps at 2048x1536, 60 fps at 1920x1080
- **SN Ratio:** 58 dB
- **Dynamic Range:** 60 dB
- **Video Streaming:** Adjustable resolution, quality and bitrate
- **Image Settings:** Adjustable image size, quality and bitrate, Time stamp, text overlay, flip & mirror, configurable brightness, contrast, saturation, sharpness, white balance, exposure control, gain, backlight compensation, privacy masks, scheduled profile settings, 3D noise reduction, smart stream, seamless recording, video rotation, audio detection

**Audio**
- **Audio Capability:** Two-way audio (full duplex)
- **Compression:** AAC, G.711, G.722
- **Interface:** Built-in microphone
- **Audio output:**

**Network**
- **Users:** Live viewing for up to 10 clients
- **Protocols:** IPv4, IPv6, TCP/IP, HTTP, HTTPS, UPnP, RTSP/RTPT/RTCP, IGMP, SMPT, FTP, DHCP, NTP, DNS, DDNS, PPPoE, CoS, QoS, SNMP, 802.1X
- **Interface:** 10Base-T/100 BaseTX Ethernet (RJ-45)
- **ONVIF:** Supported, specification available at www.onvif.org

**Dimensions**

**Intelligent Video**
- **Video Motion Detection:** Triple-window video motion detection

**Alarm and Event**
- **Alarm Triggers:** Video motion detection, manual trigger, digital input, periodic trigger, system boot, recording notification, camera tampering detection, audio detection
- **Alarm Events:** Event notification using digital output, HTTP, SMTP, FTP and NAS server

**General**
- **Smart Focus System:** Remote focal & focus control
- **Connectors:** RJ-45 for Network/PoE connection
- **Audio Input/Output:** AC 24V/DC 12V power input, Digital input*1, Digital output*1, Analog video output
- **Power Input:** DC 12V/AC 24V
- **Power Consumption:** 0.82.3af PoE Class 3
- **Max. Power Consumption:** Max. 10.92W (DC 12V), Max. 12.25W (AC 24V), Max. 12.95W (PoE)
- **Dimensions:** Ø: 157 mm x 109 mm
- **Weight:** Net: 758g
- **Safety Certifications:** CE, LVD, FCC Class B, VCCI, C-Tick, UL
- **Operating Temperature:** Starting Temperature: -10°C ~ 50°C, Working Temperature: -20°C ~ 50°C
- **Warranty:** 24 months
- **Operating System:** Microsoft Windows 7/Vista/XP/2000
- **Web Browser:** Mozilla Firefox 7~10 (Streaming only), Internet Explorer 7/8/9/10
- **VLC:** 1.1.11 or above
- **Quicktime:** 7 or above
- **Included Accessories:** User’s manual, quick installation guide, Installation Wizard 2, ST7501 32-channel recording software
- **Others:** Quick installation guide, alignment sticker, desiccant bag, DC connector, screws, AV cable, software CD

**Compatible Accessories**

**Mounting Kits**
- **AM-51A**
- **AM-520**
- **AM-215**
- **AM-516**

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