F531E IR Outdoor IP Camera

▷ **Simultaneous MPEG-4 and Motion JPEG**

▷ **True day/night with automatic removable IR-cut filter**

▷ **Infrared LEDs with 15m effective range**

▷ **Power over Ethernet**

- Progressive scan CMOS
- Simultaneous MPEG-4 and Motion JPEG
- 30 frames per second in all resolutions
- True day/night capabilities with automatic removable IR-cut filter
- 850nm infrared LEDs with 15m effective range
- Two-way audio
- Power over Ethernet IEEE 802.3af
- 1 x alarm input, 1 x alarm output
- IP66 rated weatherproof housing
- SSL v3 advanced HTTPS encryption
- 3GPP mobile surveillance
- Multi-lingual user interface
- 32 channel surveillance software

Technical Specifications

Models	F531E
Image sensor	1/4" Progressive scan CMOS sensor
Lens	F1.5, 4.0 mm
Angle of view	65° diagonal, 53° horizontal, 40° vertical
Digital Zoom	10x digital
Min Illumination	0.5 Lux 0 Lux with IR LEDs on
IR working distance	10 ~ 15 M
IR LEDs	8 φ IR LEDs x21 (850nm)
Day/Night function	Mechanical IR cut filter
S/N Ratio	50dB
Video Compression	Motion JPEG MPEG-4 Part2 (ISO/IEC 14496-2), Profile: SP
Resolutions	Motion JPEG: 3 resolutions from 640x480 to 160x120 via API, 3 resolutions via configuration web page MPEG-4: 3 resolutions from 640x480 to 160x120 via API, 3 resolutions via configuration web page
Frame rate	Motion JPEG: Up to 15 fps at 640x480 (4:3 resolution) MPEG-4: Up to 30 fps at 640x480 (4:3 resolution)
Video streaming	Simultaneous Motion JPEG and MPEG-4 (Dual streaming) Controllable Frame rate and bandwidth Support Unicast and Multicast Support 3GPP/ISMA RTSP (Real Time Streaming Protocol)
Image settings	Rotation: Mirror, Flip, Mirror Flip brightness, contrast, saturation, hue Overlay capabilities: time, date, text and privacy image
Shutter time	1/7.5 ~ 1/120 sec.
Audio	Two-way (full duplex) External microphone input or line input Audio compression: G.711 PCM, 8kHz, 64 kbit/s
Security	Multiple user access levels with password protection, HTTPS encryption
Users	5 simultaneous users Unlimited number of users using multicast
Alarm Input/Output	Alarm input 5V/12V DC Alarm output Max 30W

Alarm and event management	Input: alarm buffer, alarm input, motion detection Output: FTP, SMTP, HTTP event, alarm output Pre-and post alarm buffer
Connectors	RJ-45 for Ethernet 10/100 Base-T (with PoE) DC power jack Terminal blocks for 1 alarm input, 1 output Reset push switch 3.5 mm jack for Mic/Line, 3.5 mm jack for line out
Casing	Aluminum casing
Power	12V DC, 1A, Max 12W PoE (Power over Ethernet) Built-in IEEE 802.3af
Operating conditions	Warm Start: -30˚C (-22 °F) to 50˚C (122 °F) Cold Start: 0˚C (32 °F) to 50˚C (122 °F)
Installation, management, and maintenance	ZAVIO Camera Management tool on CD and web-based configuration. Configuration of backup and restore Firmware upgrades over HTTP, firmware available at www.zavio.com
Minimum web browsing requirement	Pentium 4 1.8GHz (or equivalent AMD) 64 MB RAM graphic cards (or equivalent on-board graphic cards) 512 MB RAM Windows 2000, 2003, XP or Vista Mac OS Leopard 10.5
Supported protocols	Bonjour, TCP/IP, DHCP, PPPoE, ARP, ICMP, FTP, SMTP, DNS, NTP, UPnP, RTSP, RTP, RTCP, HTTP, TCP, UDP, 3GPP/ISMA RTSP
Included accessories	Quick Installation Guide, CD (Zavio CamGraba IP System, Intelligent IP Installer, User Manuals, and Language Pack), mounting and connector kits, power supply 12V DC
Video management software	ZAVIO CamGraba IP System software, for viewing, recording and archiving up to 32 cameras See http://www.zavio.com/support_softwares.php for more software application
Approvals	CE, FCC, RoHS
Dimensions (HxWxD) and weight	120 x 78 (φ)mm (4.7" x 3.1") 705.5 g (1.6 lb) excl. power supply

▷ **Physical Description**

Sunshield
Housing
Infrared LEDs
Cable Gland
Network Activity Connector
Network Link Connector
Audio In
Network Connector
Audio Out
Reset
I/O Terminal Connector
Power Connector

No Com DI- DI+
Alarm Out   Alarm In