Technical Specifications

System
- CPU: VVTK-1000 SoC
- Flash: 8MB
- RAM: 64MB
- Embedded OS: Linux 2.4

Lens
- Focal length: f=4.1mm~73.8mm, auto iris, focus range: 290mm (wide), 800mm (tele) to infinity
- F-number: F1.4 (wide), F3.0 (tele)
- Embedded removable IR-cut filter for day & night function

Angle of View
- 2.8°~ 48° (horizontal)

Shutter Time
- 1/2 sec. to 1/10,000 sec.

Image Sensor
- SONY 1/4" progressive scan CCD sensor in VGA resolution

Minimum Illumination
- 1.61 Lux (F1.4, 1/30s)
- 0.38 Lux (F1.4, 1/30s, without IR-cut filter)

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 30/25 fps at 640x480
  MJPEG: Up to 30/25 fps at 640x480

Image Settings
- Adjustable image size, quality, and bit rate
- Time stamp and text caption overlay
- Flip & mirror
- Configurable white balance, brightness, sharpness, and exposure
- Automatic, manual or scheduled day/night mode
- Backlight compensation (BLC)

Pan/Tilt/Zoom
- Pan range: 360° continuous rotation
- Tilt range: 0°~90° flip
- Pan speed: 0.1~300°/sec
- Tilt speed: 0.1~120°/sec
- Auto pan mode
- Auto patrol mode

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, HTTPS, UPnP, RTSP/RTP/RTCP, IGMP, SMTP, FTP, DHCP, NTP, DNS, DDNS, and PPPoE

Alarm and Event Management
- Triple-window video for motion detection
- Four D/I and one D/O for external sensor and alarm
- Event notification using HTTP, SMTP, or FTP
- Local recording of MP4 file

Security
- Multi-level user access with password protection
- IP address filtering
- HTTPS encrypted data transmission

Users
- Camera live viewing for up to 10 clients

Dimension (including lens)
- Ø 200mm x 270mm (H)

Weight (including lens)
- Net: 3,740g

LED Indicator
- System power and status indicator
- System activity and network link indicator

Power
- 24V AC 2A 60Hz/50Hz
- Power consumption: Max 42W

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

Operating Environments
- Temperature: -20° ~ 60° C (-4° ~ 140°F)
- Humidity: 20%~80% RH

Viewing System Requirements
- OS: Microsoft Windows 2000/XP/Vista
- Browser: Mozilla Firefox, 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

Speed Dome Network Camera

SD7151

Day/Night Outdoor 18x Zoom Progressive Scan CCD

VIVOTEK SD7151, equipped with an 18x optical zoom lens, is a high performance day/night speed dome network camera suitable for professional surveillance applications. It is another significant addition to VIVOTEK's high-end network camera portfolio of progressive-series.

Adopting Sony 18x optical zoom lens plus progressive CCD sensor, this network camera allows you not only to have close-up images with exceptional detail from a long distance when enlarged but also get crystal-clear, razor-sharp images of fast-moving objects without jagged edges. With sophisticated pan/tilt mechanism, it provides fast, precise movement with continuous 360-degree pan and 90-degree tilt. You can easily control the lens position by a mouse or a joystick to track the object you are interested in and have up to 128 presets for patrolling.
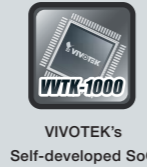
The day and night function makes this camera ideal for operating under diverse lighting conditions. When light conditions turns poor, the IR cut filter will be automatically removed to accept IR illumination. Meanwhile, the camera switches itself automatically from color to black and white, assuring optimal image quality at all times.

More advanced features including 3GPP mobile surveillance, two-way audio by SIP protocol, and digital I/O for external sensor and alarm make VIVOTEK SD7151 a full-featured speed dome. It is the best solution for various enterprise projects such as airports, highways, parking lots, and shopping malls, where high-level reliability and precision is always required.

Product Features

SD7151

- SONY Progressive Scan CCD Sensor in VGA Resolution
- 18x Zoom Lens
- Removable IR-cut Filter for Day & Night Function
- 360° Continuous Pan and 0°~90° Flip Tilt
- Vandal-proof and Weather-proof
- Real-time MPEG-4 and MJPEG Compression (Dual Codec)
- Supports Dual Streams Simultaneously
- 3GPP Mobile Surveillance
- Easy, Fast, Accurate PTZ Control by Joystick
- Two-way Audio by SIP Protocol
- Digital I/O for External Sensor and Alarm

VVTK-1000

VIVOTEK's
Self-developed SoC

System Overview

External Microphone

Speaker

PZ7151

IP7151

SD7151

FD7131

IP7138

VIVOTEK Network Cameras

Router

Desktop PC

Joystick

3GPP Network

Internet

3G Cell phone

PC With Web Browser

Notebook with Web Browser

PC with Recording Software

Physical Description

Inner View

Lens

Status LED
Indented Reset Button

Connectors

General I/O Terminal Block
Ethernet10/100 RJ45 Socket
Audio Out (Green)
Microphone In (Pink)
Power Cord Socket (Black)
Ground

Pan range: 360° Continuous Rotation
Tilt range: 0°~90° Flip

360°

0°~90°

Versatile Applications

Airports

Freeway

Parking lots

Shopping malls
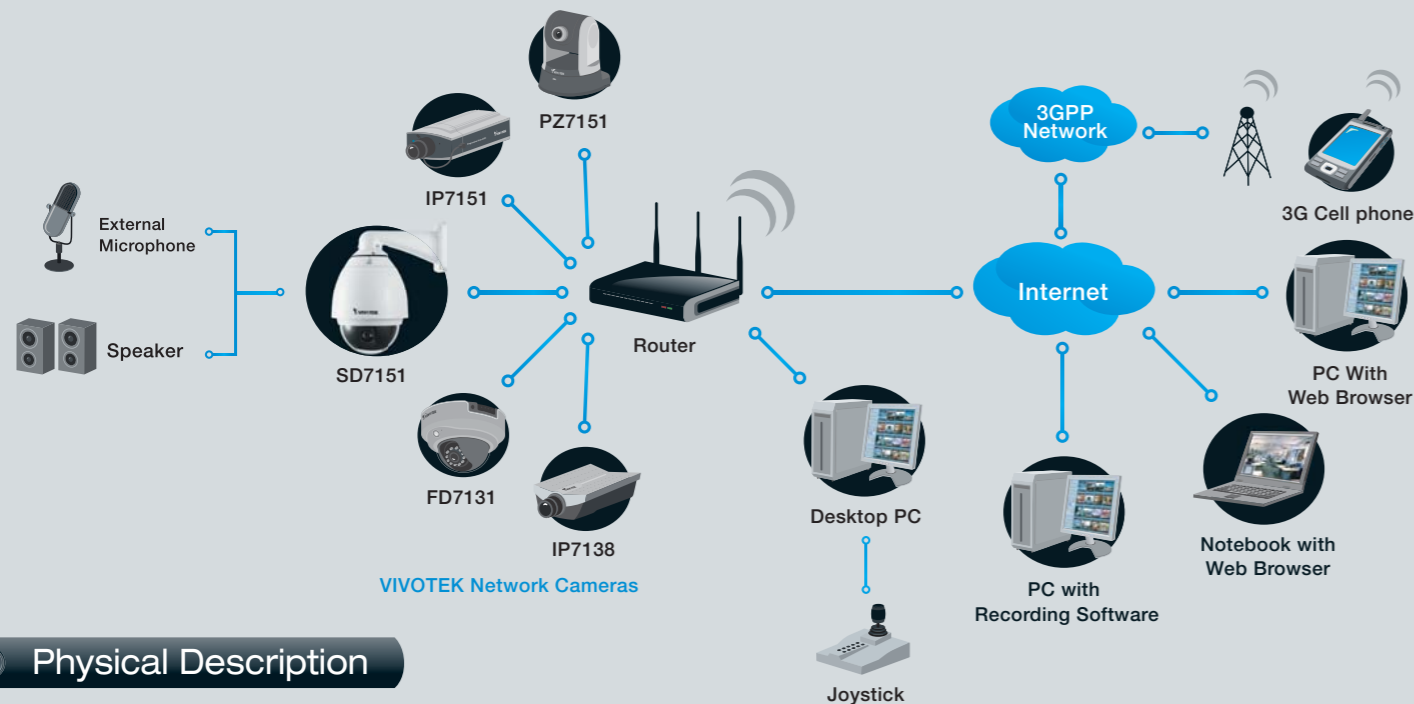
Easy Installation

1

2

3

4

5
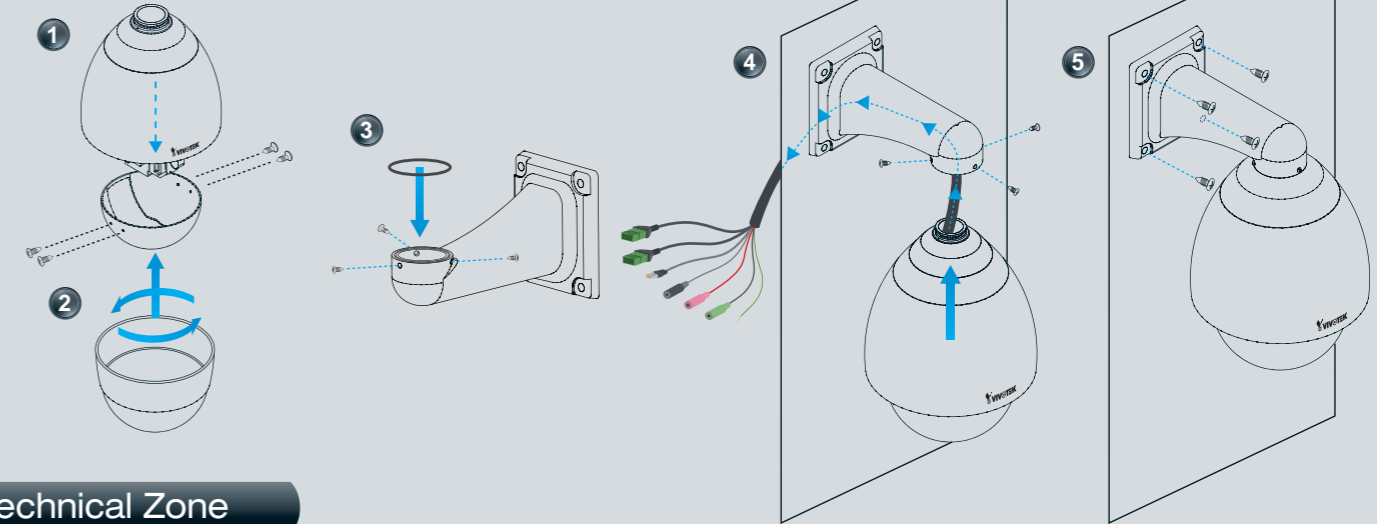
Technical Zone

Progressive Scan CCD

Progressive Scan CCD Sensor
Optimum solution for shooting high-speed moving objects

The progressive scan CCD sensor effectively offers an excellent solution for shooting high-speed moving objects. It can clearly capture images of moving objects that traditional interlaced-scan techniques could not achieve. Unlike interlaced-scan techniques, progressive scanning scans all the lines simultaneously so as to present razor-sharp, clear, and high-resolution snapshots.

18x Zoom

18x Optical Zoom Lens
Providing unprecedented image quality

Utilizing Sony 18x optical zoom lens, VIVOTEK SD7151 allows you to have close-up images with exceptional detail and effectively extends your eyesight. You can easily and quickly zoom in on distant objects or any tiny target with unprecedented high quality even when enlarged.
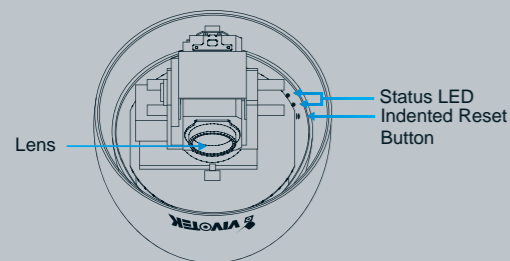
Day/Night

Day & Night Function
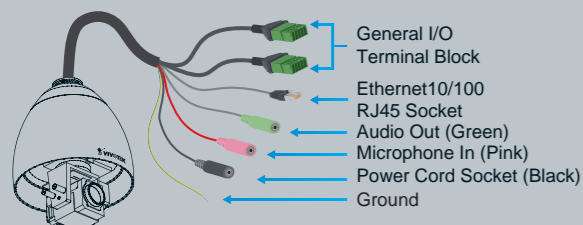*The best solution for 24-hour surveillance*

VIVOTEK SD7151 is equipped with a removable IR cut filter, which will automatically be removed at night time to bring the IR light into the sensor to maximize the low light sensitivity. The camera will switch automatically from color to black and white, assuring optimal image quality at all times.