

# N4013 Speed Dome Network Camera



## H.264 / D1 Real Time / 23X~37X

- H.264/MJPEG Dual Codec & Streaming simultaneously
- D1( 704x480@NTSC/30fps )
- High Resolution of 560TVL(23X) / 600TVL(37X)
- 23X~37 in Optical Zoom (Optional with WDR)
- Mechanical ICR
- Pan 0.1°~180°/S, Tilt 0.1°~90°/S, Preset 450°/S  
Pan Tilt accuracy ± 0.1°
- Intelligent Video Analytics
- IP67 Weather Proof
- Digital Image Stabilization



## Specifications

### Camera

|                                 |                                                         |                                |                                                                                                                  |
|---------------------------------|---------------------------------------------------------|--------------------------------|------------------------------------------------------------------------------------------------------------------|
| Zoom Lens Module                | Samsung 23X SCM-2230N (P)                               | Zoom Lens Module               | Samsung 37X SCM-2370N (P)                                                                                        |
| Sensor                          | 1/4" Interline Transfer CCD                             | Sensor                         | 1/4" Interline Transfer CCD                                                                                      |
| Scan Method                     | Interlace                                               | Scan Method                    | Interlace                                                                                                        |
| Lens                            | 23X optical zoom lens=3.5 to 80.9mmF1.6~F2.4            | Lens                           | 37X optical zoom lens=3.5 to 129.5mmF1.6~F3.9                                                                    |
| Zoom Ratio                      | 23X in Optical Zoom, 16X in Digital Zoom                | Zoom Ratio                     | 37X in Optical Zoom, 16X in Digital Zoom                                                                         |
| Minimum Illumination            | C/L : 0.2Lux/F1.6 (50 IRE), B/W : 0.02Lux/F1.6 (50 IRE) | Minimum Illumination           | C/L : 0.2Lux/F1.6 (50 IRE), B/W : 0.02Lux/F1.6 (50 IRE)                                                          |
| Horizontal Resolution           | Color : 560TVL, B/W : 680TVL                            | Horizontal Resolution          | Color : 560TVL, B/W : 680TVL                                                                                     |
| Wide Dynamic Range              | SSDR                                                    | Wide Dynamic Range             | SSDR                                                                                                             |
| Backlight Compensation          | Off/BLC/HLC                                             | Backlight Compensation         | Off/BLC/HLC                                                                                                      |
| Electronic Shutter              | 1/50~1/120000                                           | Electronic Shutter             | 1/50 to 1/120,000                                                                                                |
| DIS                             | Yes                                                     | DIS                            | Yes                                                                                                              |
| Number of Effective Pixel (H*V) | NTSC (768x494) / PAL (752x582)                          | Panning/Tilt Speed             | Manual: Panning Speed Approx. 0.2°/s ~ 196.8°/s, Tilt Speed Approx. 0.2°/s ~ 98°/s, preset: up to approx. 450°/s |
| SNR(max.)                       | 50db                                                    | Number of the Preset Positions | 64                                                                                                               |
| DNR                             | High/Middle/Low, 3 steps selection                      | IRIS Control                   | Auto/Manual                                                                                                      |
| White Balance                   | Auto/Indoor/Outdoor/Manual                              | Exposure Compensation          | Auto                                                                                                             |
| Gain Control                    | High/Middle/Low, 3 steps selection                      | Slow Shutter                   | Auto/Off                                                                                                         |
| Flicker Control                 | Off/50 Hz/60 Hz, 3 steps selection                      | Noise Reduction                | Yes                                                                                                              |
| Panning Coverage                | 0°~ 360°                                                | Day and Night                  | IR-Cut Filter Removable (ICR)                                                                                    |
| Tilting Coverage                | -10°~ 90°                                               |                                |                                                                                                                  |

### Video

|                        |                                                                                                                                                                                                                                                                                                                |
|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Video Compression      | H.264 (MPEG-4Part 10/AVC)/MJPEG,Dual codec                                                                                                                                                                                                                                                                     |
| Video Framerate        | D1@30fps                                                                                                                                                                                                                                                                                                       |
| Resolution             | H.264: D1( 704x480@NTSC/30fps, 704x576@PAL/25fps )<br>CIF ( 352x240@NTSC/30fps, 352x288@PAL/25fps )<br>QCIF ( 176x120@NTSC/30fps, 176x144@PAL/25fps )<br>MJPEG: D1( 704x480@NTSC/30fps, 704x576@PAL/25fps )<br>CIF ( 352x240@NTSC/30fps, 352x288@PAL/25fps )<br>QCIF ( 176x120@NTSC/30fps, 176x144@PAL/25fps ) |
| Bitrate Control        | CBR and VBR, 128kbps ~ 4Mbps                                                                                                                                                                                                                                                                                   |
| Multi-streams          | Triple streaming, Multiple profiles<br>1xD1, 1xCIF and 1xQCIF                                                                                                                                                                                                                                                  |
| Digital Zoom (PC Side) | 1/4X, 1/3X, 1/2X, 1X, 2X, 4X                                                                                                                                                                                                                                                                                   |
| Image Rotation         | Mirror, Flip, Rotate 180°                                                                                                                                                                                                                                                                                      |

### Intelligent Video

Privacy mask/Motion detection/Blind Detection/OSD

### Audio

|             |                                                            |
|-------------|------------------------------------------------------------|
| 2 Way Audio | Audio Line-in, Audio Line-out                              |
| Compression | AMR, G.711 @ 64kbps, G.726 @ 32kbps/<br>Configure bit rate |

### Network

|                     |                                                                                                                    |
|---------------------|--------------------------------------------------------------------------------------------------------------------|
| Streaming Protocols | RTSP/RTP/UDP, RTSP/RTP/TCP, RTSP/RTP/HTTP tunneling, LAN Multicast, Multipart-JPEG                                 |
| Supported Protocols | IPv4, HTTP, UDP, TCP, ICMP, IGMP, ARP, DHCP, NTP, SMTP, FTP, SAMBA, UPnP, PPPoE, DNS, DDNS, RTSP, RTP, RTCP, ONVIF |
| Mobile Surveillance | iPhone, iPad, Android, BlackBerry                                                                                  |

### Storage

|          |                   |
|----------|-------------------|
| External | 1 x Micro SD Card |
|----------|-------------------|

### Processors and Memory

|                  |                              |
|------------------|------------------------------|
| CPU              | ARM9 SOC                     |
| Flash and Memory | 32MB NOR flash, 256MB DDRIII |

### I/O and Connectors

|           |                                     |
|-----------|-------------------------------------|
| LAN       | 1x RJ45 Ethernet connector          |
| Audio     | 1x Audio Line-in, 1x Audio Line-out |
| Alarm I/O | 1x Alarm-in, 1x Alarm-out           |

### Software Compatibility

|                      |                                              |
|----------------------|----------------------------------------------|
| Browser              | Internet Explorer 6.0 or above               |
| Application Software | VMS Application Software                     |
| OS supported         | Microsoft Windows 2000, XP, Vista, Windows 7 |

### Open API

CGI commands to control camera  
Media SDK to handle streaming

### Power

|                   |                                       |
|-------------------|---------------------------------------|
| Power Input       | AC24V or AC24V+PoE 802.3at (Optional) |
| Power Consumption | 18W                                   |

### Demension

206mm(Φ) x 316.3mm(H)

### Weight

3430g

### Operating Environment

|                       |                         |
|-----------------------|-------------------------|
| Operating temperature | -10°C ~ +50°C           |
| Storage temperature   | -10°C ~ +50°C           |
| Humidity              | 0% ~ 95% non-condensing |

### Certification

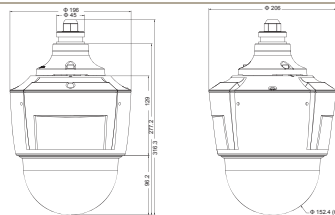
CE, FCC Class A, RoHS, IP67, IK10, UL

### Warranty

24 months

Member of **ONVIF** **CE** **FC** **RoHS** **UL** **LISTED**

## Dimension Diagram



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