

# QND-7012R

4MP IR Dome Camera



FC|CE|EAC

## Key Features

- Maximum 4MP resolution
- Color : 0.15Lux (F2.0, 1/30sec) B/W : 0Lux (IR LED On)
- 2.8mm fixed focal
- Maximum 30fps@4MP all resolutions (H.265/H.264)
- H.265, H.264, MJPEG codec supported, Multiple streaming
- Motion detection, Tampering, Defocus detection
- Hallway view (90°/270°), LDC support
- Micro SD/SDHC/SDXC memory slot (128GB)
- IR viewable length 20m (65.62ft), PoE

<b>Video</b>	
Imaging Device	1/3" CMOS
Resolution	2560 x 1440, 1920 x 1080, 1280 x 960, 1280 x 720, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240
Max. Framerate	H.265/H.264 : Max. 30fps at 4M all resolutions, MJPEG : Max. 15fps
Min. Illumination	Color : 0.15Lux (F2.0, 1/30sec) B/W : 0Lux (IR LED On)
Video Out	CVBS : 1.0 Vpp/75Ω composite, 720x480(N), 720x576(P) for installation
<b>Lens</b>	
Focal Length (Zoom Ratio)	2.8mm fixed focal
Max. Aperture Ratio	F2.0
Angular Field of View	H : 107.5, V : 59.7, D : 122.0
Focus Control	Fixed
<b>Pan / Tilt / Rotate</b>	
Pan / Tilt / Rotate Range	0° ~ 350° / 0° ~ 67° / 0° ~ 355°
<b>Operational</b>	
Camera Title	Displayed up to 85 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, WDR, SDR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNR
Motion Detection	4ea, polygonal zones
Privacy Masking	6ea, rectangular zones
Gain Control	Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
LDC	Support
Electronic Shutter Speed	Minimum/Maximum/Anti flicker (1/5~1/12,000sec)
Video Rotation	Flip, Mirror, Hallway view(90/270)
Analytics	Defocus detection, Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line
Alarm I/O	Input 1ea / Output 1ea
Alarm Triggers	Analytics, Network disconnect, Alarm input
Alarm Events	File upload via FTP and e-mail, Notification via e-mail, SD/SDHC/SDXC or NAS recording at event triggers, Alarm output, Handover
Audio In	Built-in MIC
IR Viewable Length	20m (65.62ft)
<b>Network</b>	
Ethernet	RJ-45 (10/100BASE-T)

<b>Video Compression</b>	H.265/H.264 : Main/High, MJPEG
<b>Audio Compression</b>	G.711 u-law / G.726 Selectable G.726(ADPCM) 8KHz, G.711 8KHz, G.726 16Kbps, 24Kbps, 32Kbps, 40Kbps
<b>Smart Codec</b>	Manual (5ea area), WiseStream II
<b>Bitrate Control</b>	H.264/H.265 : CBR or VBR MJPEG : VBR
<b>Streaming</b>	Unicast (6 users) / Multicast Multiple streaming (Up to 3 profiles)
<b>Protocol</b>	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP
<b>Security</b>	HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access Log 802.1X Authentication
<b>Application Programming Interface</b>	ONVIF Profile S/G/T, SUNAPI (HTTP API)

**General**

<b>Webpage Language</b>	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
<b>Edge Storage</b>	Micro SD/SDHC/SDXC 1slot 128GB
<b>Memory</b>	512MB RAM, 256MB Flash

**Environmental & Electrical**

<b>Operating Temperature / Humidity</b>	-10C~+55C (+14F~+131F) / Less than 95% RH
<b>Storage Temperature / Humidity</b>	-30C~+60C (-22F~+140F) / Less than 95% RH
<b>Input Voltage</b>	PoE(IEEE802.3af, Class3), 12VDC
<b>Power Consumption</b>	PoE: Max 7.9W, typical 6.1W 12VDC: Max 7.1W, typical 5.1W

**Mechanical**

<b>Color / Material</b>	White / Plastic
<b>RAL Code</b>	RAL9003
<b>Product Dimensions / Weight</b>	Ø110.0 x 86.0mm (Ø4.33 x 3.39"), 255g (0.562 lb)
<b>Compatible Conduit hole / Gangbox</b>	- Included : Double - SBD-110GP : Single, Double, 4"Octagon

**DORI (EN62676-4 standard)**

<b>Detect (25PPM/ 8PPF)</b>	37.5m(123.17ft)
<b>Observe (63PPM/ 19PPF)</b>	15.0m(49.27ft)
<b>Recognize (125PPM/ 38PPF)</b>	7.5m(24.63ft)
<b>Identify (250PPM/ 76PPF)</b>	3.8m(12.32ft)

- The latest product information / specification can be found at [hanwha-security.com](http://hanwha-security.com)
- Design and specifications are subject to change without notice.
- Wisenet is the proprietary brand of Hanwha Techwin, formerly known as Samsung Techwin.

