SND-7084R

The Wise Choice
for Professionals

SND-7084R

3Megapixel Network IR Dome Camera

- 30fps@2,048 x 1,536 / 60fps@1,920 x 1,080
- Simple focus (Motorized VF)
- Day&Night (ICR), Enhanced DIS, Defog
- 3M real-time WDR (Max. 120dB)
- Color : 0.1Lux (F1.2, 50IRE)
  B/W : 0Lux (IR LED on)
- Built-in SD/SDHC/SDXC memory slot
- Multi-crop streaming
- Vandal Resistant (IK08)

The SND-7084R features the most advanced WiseNetIII functions from Samsung with 3 megapixel 1080p high definition images. Its high level of functionalities includes 120dB Wide Dynamic Range which delivers 30fps at 3 megapixel 1080p, built-in IR LEDs creating clear images even in the darkness of 0 lux, and motorized varifocal lens which result in easy focus control. With enhanced features and new technologies to combat the challenges of tough environmental conditions, the SND-7084R will meet the professional security needs of the market.

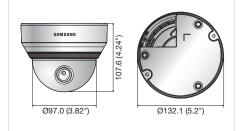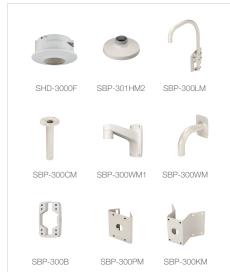**iPOLiS,**
Your *smart* security solution

Key Features

- 30fps@2,048 x 1,536 / 60fps@1,920 x 1,080
- Simple focus (Motorized VF)
- Day&Night (ICR), Enhanced DIS, Defog
- 3M real-time WDR (Max. 120dB)
- Color : 0.1Lux (F1.2, 50IRE)
  B/W : 0Lux (IR LED on)
- Built-in SD/SDHC/SDXC memory slot
- Multi-crop streaming
- Built-in mic
- Vandal Resistant (IK08)

Dimensions

Unit : mm (inch)

Ø97.0 (3.82")
107.6 (4.24")
Ø132.1 (5.2")

Accessory (Optional)

SHD-3000F   SBP-301HM2   SBP-300LM

SBP-300CM   SBP-300WM1   SBP-300WM

SBP-300B   SBP-300PM   SBP-300KM

	SND-7084RN/P
VIDEO	
Imaging Device	1/2.8" PS Exmor 3.2M CMOS
Total Pixels	2,065(H) x 1,565(V)
Effective Pixels	2,065(H) x 1,553(V)
Scanning System	Progressive
Min. Illumination	Color : 0.1Lux (F1.2, 50IRE), 0.01Lux (30fps, 1sec, 50IRE), B/W : 0Lux (IR LED on)
S / N Ratio	50dB
Video Output	CVBS : 1.0 Vp-p / 75Ω composite, 720 x 480(N), 720 x 576(P), for installation DIP connector type
LENS	
Focal Length (Zoom Ratio)	3 ~ 8.5mm (2.8x) motorized varifocal
Max. Aperture Ratio	F1.2
Angular Field of View	H : 100.12°(Wide) ~ 35.38°(Tele) / V : 73.76°(Wide) ~ 26.58°(Tele)
Min. Object Distance	0.5m (1.64ft)
Focus Control	Simple focus / Manual, Remote control via network (Manual, Simple focus, Day & Night)
Lens Type / Mount Type	DC auto iris / Board-in type
PAN / TILT / ROTATE	
Pan / Tilt / Rotate Range	0° ~ 354° / 0° ~ 67° / 0° ~ 355°
OPERATIONAL	
IR LED	12ea
Viewable Length	25m (82.02ft)
Camera Title	Off / On (Displayed up to 45 characters)
Day & Night	Auto (ICR) / Color / B/W / External / Schedule
Backlight Compensation	Off / BLC
Wide Dynamic Range	120dB
Contrast Enhancement	SSDR (Samsung Super Dynamic Range) (Off / On)
Digital Noise Reduction	SSNRIII (2D+3D noise filter) (Off / On)
Digital Image Stabilization	Off / On
Defog	Off / Auto / Manual
Motion Detection	Off / On (4 zones with 4 points polygonal)
Privacy Masking	Off / On (32zones with 4points of polygonal)
Gain Control	Off / Low / Middle / High
White Balance	ATW / AWC / Manual / Indoor / Outdoor
Electronic Shutter Speed	Minimum / Maximum / Anti flicker (1 ~ 1/12,000sec)
Flip / Mirror	Off / On
Intelligent Video Analytics	Tampering, Virtual line, Enter / Exit, Appear / Disappear, Audio detection, Face detection with metadata
Alarm I/O	Input 1ea / Output 1ea
Alarm Triggers	Motion detection, Tampering, Audio detection, Face detecton, Video analytics, Alarm input
Alarm Events	File upload via FTP and E-mail, Notification via E-mail, TCP and HTTP Local storage (SD/SDHC/SDXC) recording at Network disconnected & Event (Alarm triggers), External output
NETWORK	
Ethernet	RJ-45 (10/100BASE-T)
Video Compression Format	H.264 (MPEG-4 part 10/AVC), MJPEG
Resolution	2048 x 1536, 1920 x 1080, 1600 x 1200, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 450, 640 x 480, 640 x 360, 320 x 240, 320 x 180
Max. Framerate	H.264 : Max. 30fps@2048 x 1536, Max 60fps@the other resolutions MJPEG : Max. 10fps@2048 x 1536, 1920 x 1080, 1600 x 1200, 1280 x 1024, 1280 x 960, 1280 x 720, 1024 x 768 Max. 30fps@800 x 600, 800 x 450, 640 x 480, 640 x 360, 320 x 240, 320 x 180
Smart Codec	Built-in (Area-based : 5ea, Face detection mode)
Video Quality Adjustment	H.264 : Compression level, Target bitrate level control, MJPEG : Quality level control
Bitrate Control Method	H.264 : CBR or VBR, MJPEG : VBR
Streaming Capability	Multiple streaming (Up to 10 profiles)
Audio I/O	Mic(Line)-in / Built-in mic selectable via UI, Line-out (Mono, 1Vrms) 2.5V DC (4mA) powered 2K Ohm
Audio Compression Format	G.711 u-law /G.726 selectable, G.726 (ADPCM) 8KHz, G.711 8KHz G.726 : 16Kbps, 24Kbps, 32Kbps, 40Kbps
Audio Communication	Bi-directional audio
IP	IPv4, IPv6
Protocol	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour
Security	HTTPS(SSL) login authentication, Digest login authentication IP address filtering, User access log, 802.1x authentication
Streaming Method	Unicast / Multicast
Max. User Access	15 users at unicast mode
Memory Slot	micro SD/SDHC/SDXC Motion images recorded in the SDXC/SDHC/SD memory card can be downloaded
Application Programming Interfac	ONVIF profile S, HTTP API v2.0, SVNP 1.2
Webpage Language	English, French, German, Spanish, Italian, Chinese, Korean, Russian, Japanese, Swedish, Danish, Portuguese, Turkish, Polish, Czech, Rumanian, Serbian, Dutch, Croatian, Hungarian, Greek, Norwegian, Finnish
Web Viewer	Supported OS : Windows XP / VISTA / 7 / 8, MAC OS X 10.7 Supported Browser : Microsoft Internet Explorer (Ver. 11, 10, 9, 8), Mozilla Firefox (Ver. 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9), Google Chrome (Ver. 25, 24, 23, 22, 21, 20, 19, 18, 17,16, 15), Apple Safari (Ver. 6.0.2(Mac OS X 10.8, 10.7 only), 5.1.7) * Mac OS X only
Central Management Software	SmartViewer
ENVIRONMENTAL	
Operating Temperature / Humidity	-10°C ~ +55°C (+14°F ~ +131°F) / Less than 90% RH
Storage Temperature / Humidity	-30°C ~ +60°C (-22°F ~ +140°F) / Less than 90% RH
ELECTRICAL	
Input Voltage / Current	12V DC, PoE (IEEE802.3af class 3)
Power Consumption	Max. 10.0W (12V DC), Max. 11.0W (PoE)
MECHANICAL	
Color / Material	Ivory / Aluminum
Dimensions (WxH)	Ø132.1 x 107.6mm (Ø5.2" x 4.24")
Weight	1Kg (2.20 lb)

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TEST REPORT

Report Ref. No.	14EMC-RT-1203
Date of issue	2014-05-02

Applicant

○ Name Samsung Techwin Co., Ltd.

○ Address 84, Jeongdong-ro, Seongsan-gu, Changwon-si, Gyeongsangnam-do, Korea

Factory

○ Name TIANJIN SAMSUNG TECHWIN OPTO-ELECTRONIC CO., LTD

○ Address No.11 Weiliu Road. Micro-Electronic Industrial Park Jingang Road Tianjin 300385, China

Equipment

○ Product Network Camera

○ Model SND-7084RN, SND-7084RP, SND-5084RN, SND-5084RP

Standard IEC 62262 and IEC 60068-2-75

Technician Hyunwook, Song

Approved Jaekyu, Lee

1. Reference Documents

IEC 62262 and IEC 60068-2-75
Degrees of protection provided by enclosure for electrical equipment against external mechanical impacts (IK code)

2. Test Performed

Degree of protection provided by enclosure for external impacts IK08

3. General Test Conditions

Tamb: 27 ℃   RH: 34 %

4. Test Conditions

According to standard IEC 62262 and IEC 60068-2-75
The verification of IK08 has been done positioning the enclosure on a rigid support.
5 impacts have been applied on each surface in sight with the enclosure.
For the test used Pendulum Hammer

IK08 (Characteristrics of impact test):

Energy: 5 Joule
Mass: 1.7 kg
High Δh: 295 mm

5. Drop Zones:

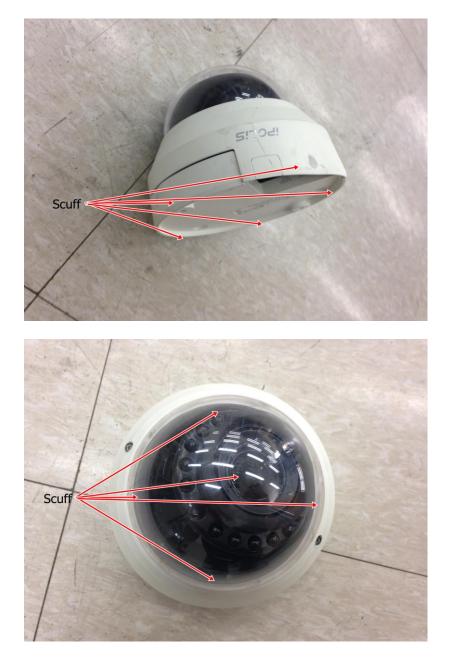The areas that were focused upon for this impact test are as follows:

6. Test Results

Drop Zone: Enclosure		
Drop #	**Orientation / Results**	**Pass / Fail**
Drop 1	Normal to surface of enclosure. Scuff	Pass
Drop 2	Normal to surface of enclosure, about 90° circumferentially from previous drop. Scuff	Pass
Drop 3	Normal to surface of enclosure, about 90° circumferentially from previous drop. Scuff	Pass
Drop 4	Normal to surface of enclosure, about 90° circumferentially from previous drop. Scuff	Pass
Drop 5	Normal to surface of enclosure, about 90° circumferentially from previous drop. Scuff	Pass

Drop Zone: Window		
Drop #	**Orientation / Results**	**Pass / Fail**
Drop 1	Vertical drop onto center of Window. Scuff	Pass
Drop 2	Normal to surface of side Window. Scuff	Pass
Drop 3	Normal to surface of side Window, about 90° circumferentially from previous drop. Scuff	Pass
Drop 4	Normal to surface of side Window, about 90° circumferentially from previous drop. Scuff	Pass
Drop 5	Normal to surface of side Window, about 90° circumferentially from previous drop. Scuff	Pass

7. Images

Conclusion:

After testing according to the procedure set forth by IEC 62262, model SND-7084RN, SND-7084RP, SND-5084RN, SND-5084RP was found to meet the criteria required for an IK08 specification.