

SRN-4000 64-CHANNEL NETWORK VIDEO RECORDER

TECHNICAL SPECIFICATIONS

SECURITY SYSTEM

DIVISION – 28 ELECTRONIC SAFETY AND SECURITY

LEVEL 1 28 20 00 ELECTRONIC SURVEILLANCE

LEVEL 2 28 23 00 VIDEO SURVEILLANCE

LEVEL 3 28 23 29 VIDEO SURVEILLANCE REMOTE DEVICES AND SENSORS

1.01 GENERAL

- A. All equipment and materials used shall be standard components that are regularly manufactured and used in the manufacturer's system.
- B. All systems and components shall have been thoroughly tested and proven in actual use.
- C. All systems and components shall be provided with an explicit manufacturer warranty.

1.02 SRN-4000 64-CHANNEL NETWORK VIDEO RECORDER

- A. The network video recorder (NVR) shall support up to 64 network cameras and shall be compatible with ONVIF compliant network cameras. The NVR will have the throughput of 400mbps for recording and 200mbps for network transmission
- B. The NVR shall support H.264, MPEG4 and MJPEG Multiple codec.
- C. The NVR shall support the iPolis mobile viewer for iPhone and Android phone

1.03 DISPLAY

- A. N/W Camera
 - 1. Inputs Up to 64 network camera support
 - 2. Resolution CIF ~ 5M
 - 3. Protocols Samsung, ONVIF
- B. LIVE
 - 1. Local Display HDMI / VGA
 - 2. Multi Screen Display Local monitor : 1, 4, 9, 16, 1+5, 1+7, 1+12, Sequence, Web : 1, 4, 9, 16, 32, 64, Sequence

1.04 PERFORMANCE

- A. OS Embedded Linux
- B. Recording
 - 1. Compression H.264, MPEG4, MJPEG
 - 2. Recording Bit Rate Max. 400Mbps (2M 64camera real-time recording)
 - 3. Mode Manual, Schedule (Continuous/Event), Event (Pre/Post)
 - 4. Event Trigger Alarm input, Video loss, Camera event(Sensor, MD, Video Analytics), VA(Up to 4ch selectable, Advanced MD, Object classification(People, Car))
 - 5. Event Action E-mail, PTZ preset, Alarm out, Buzzer, Monitor out
- C. Search & Playback
 - 1. Search mode Date/time(calendar), Event log list (all search included in Preview)
 - 2. Playback function Fast Forward/Backward, Move one step up, Move one step down
 - 3. Playback bandwidth 25Mbps(16Ch simultaneously)
 - 4. Simultaneous Playback 16CH(Local monitor, CMS), 4CH(Web)
 - 5. Resolution CIF ~ 5M
 - 6. Playback Function Fast forward, backward, Move one step up/ down
- D. Network
 - 1. Ethernet RJ-45, Gigabit Ethernet x 4
 - 2. Transmission speed Total Throughput Bandwidth Max : 700Mbps
Transmission Bandwidth Max : 400Mbps

3. Remote users	1 Search, 10 Live Unicast, 20 Live Multicast
4. Protocol support	TCP/IP, UDP/IP, RTP(TCP), RTP(UDP), RTSP, NTP, HTTP, DHCP, PPPoE, SMTP, ICMP, IGMP, ARP, DNS, DDNS, UPnP, ONVIF, HTTPS, SNMP
5. Viewer Software	Type : Webviewer, SmartViewer CMS support : Support SDK / CGI
6. DDNS	Samsung Ipolis, DDNS
7. IP	IPv4/v6
8. Security	IP address Filtering, User access log, 802.1x authentication, Encryption
9. Language	English, French, German, Italian, Spanish, Russian, Turkish, Polish, Dutch, Swedish, Czech, Portuguese, Danish, Rumanian, Serbian, Croatian, Hungarian, Greek, Norwegian, Finnish, Korean, Chinese, Japanese, Thai
10. OS	Supported OS : Window XP (service pack 2 or above), Vista, 7, 8, Mac OS X (10.4.8 or above)
11. Web Browser	MS IE 8.x, 9.x, Google Chrome, Mac Safari, Firefox 2.x, 3.x
12. Smart Phone	Platform : Android, IOS Protocol Support : RTP, RTSP, HTTP, CGI Max. Remote Users : Live 10, Playback 1
E. Storage	
1. Built-in	2TB 1ea
2. Internal HDD	12(Hot swap), Max 36TB
3. External HDD	NAS(ISCISI) : vessRaid 1840i, Max. 192TB(JBOD)
4. RAID	RAID-5/6
F. Back up	File Back up(Via Web) : BU/Exe(GUI), JPG, AVI(Network), Function : Single channel play, Date-time/title display
G. Sensor	Input / Output : 8 / 4 (NO/NC selectable)
H. Alarm	input : 64CH(Network), compression : G.711, G.726 Audio Communication : 2-Way
1.05 INTERFACE	
A. Front	
1. Indicator	LED status indicator : HDD action 12, RAID status 1, Alarm 1, Power 1, Record 1, Back up 1, Network 1
2. Switch	PWR switch 1ea, Key-lock 1ea
B. Alarm	
1. Inputs	Terminal 8 inputs (Terminal block)
2. Outputs	Terminal 4 outputs (Terminal block)
C. Connections	
1. Ethernet	RJ-45 4ea(GbE) w/ LINK/ACT LED
2. Video	1 VGA, 1 HDMI
3. USB	2ea(Front)
4. Reset	Switch(1ea)
5. Power cord	1ea AC inlet
1.06 GENERAL	
A. Electrical	
1. Input Voltage/Current	100 ~ 240V AC $\pm 10\%$, 50/60Hz, 3 ~ 1.5A(Dual SMPS)
2. Power consumption	Max 187W(546BTU with 1TB 12 HDDs)
B. Environmental	
1. Operating Temperature	+0°C ~ +40°C (+32°F ~ +104°F)
2. Operating Humidity	20% ~ 85% RH

C. Mechanical

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|---------------------------|---|
| 1. Dimensions(WxHxD) | 436.0 x 132.0 x 450.0mm(17.17" x 5.2" x 17.72")(3U) |
| 2. Weight(1 x Hard Disks) | Approx. 11.8Kg(14.77lb) |

D. Approvals

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|-----------|---------------------------|
| 1. Safety | UL |
| 2. EMC | CE, FCC, KCC, CCC, Gost-R |