

**SRN-470D 4-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**

**PART 2 – PRODUCTS**

**2.01 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.

**2.02 SRN-470D 4-CHANNEL NETWORK VIDEO RECORDER**

- A. The network video recorder (NVR) shall support up to four network cameras and shall be compatible with ONVIF compliant network cameras. The NVR will have the throughput of 64Mbps.
- B. The NVR shall support H.264, MPEG4 and MJPEG Multiple codec.
- C. The NVR shall offer DVD writer support and HDMI output.
- D. The NVR shall support the iPolis mobile viewer for iPhone and Android phone.
- E. All operation and configuration menus shall be provided in 22 languages including Korean, Japanese, Chinese, English, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Dutch, Portuguese, Swedish, Danish, Thai, Romanian, Serbian, Croatian, Hungarian and Greek.

**2.03 DISPLAY**

- A. N/W Camera
  - 1. Inputs Up to 4 network camera support
  - 2. Resolution VGA, 4CIF, 1.3MP, 2MP, 3MP
  - 3. Protocols Samsung, ONVIF
- B. Live
  - 1. Multi Screen display 1, 4, Sequence

**2.04 PERFORMANCE**

- A. OS Embedded Linux
- B. Recording
  - 1. Compression H.264, MPEG4, MJPEG
  - 2. Recording Bit Rate 64Mbps
  - 3. Record Rate NTSC
    - Up to 90fps @ 2048x1536 (3MP) 15Mbps/Ch
    - Up to 120fps @ 1920x1080 (2MP) 8Mbps/Ch
    - Up to 120fps @ 1280x1024 (1.3MP) 5Mbps/Ch
    - Up to 120fps @ 704 x 480 (4CIF) 3Mbps/Ch
  - 4. Record Rate PAL
    - Up to 90fps @ 2048x1536 (3MP) 15Mbps/Ch
    - Up to 100fps @ 1920x1080 (2MP) 8Mbps/Ch
    - Up to 100fps @ 1280x1024 (1.3MP) 5Mbps/Ch
    - Up to 100fps @ 704 x 480 (4CIF) 3Mbps/Ch

- 5. Mode Manual, Schedule (Continuous/Event), Event (Pre/Post)
- 6. Overwrite modes Continuous
- 7. Pre-alarm Up to 30 sec.(5, 10, 20, 30 sec)
- 8. Post-Alarm Up to 6 hours (5,10, 20, 30, seconds; 1,3, 5, 10, 20 minutes; 1, 2, 3, 4, 5, 6 hours)
- C. Search & Playback
  - 1. Playback Speed NTSC Up to 15fps @ 2048x1536 (3MP)  
Up to 30fps @ 1920x1080,1280 x 1024 (2MP,1.3MP)  
Up to 120fps @ 704 x 576 (4CIF)
  - 2. Playback Speed PAL Up to 15fps @ 2048x1536 (3MP)  
Up to 25fps @ 1920x1080,1280 x 1024 (2MP,1.3MP)  
Up to 100fps @ 704 x 576 (4CIF)
  - 3. Search mode Date/time, Event, Backup (all search included in Preview)
  - 4. Playback function Fast Forward/Backward, Slow Forward/Backward, Step Forward/Backward
- D. Network
  - 1. Ethernet Gigabit Ethernet x2
  - 2. Transmission speed Up to 48Mbps, 2, 1.5, 1Mbps;  
800, 600, 500, 400 , 300, 200, 100, 50kbps
  - 3. Bandwidth control Automatic
  - 4. Remote users 3 Search, 10 Live Unicast, 20 Live Multicast
  - 5. Protocol support TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP, DDNS, RTP, RTSP
  - 6. Monitoring Net-I Viewer, Webviewer
- E. Storage
  - 1. Internal HDD 1 SATA HDDs
  - 2. External HDD eSATA interface
  - 3. DVD Writer (Back-up) Yes
  - 4. USB (Back-up) 2 USB Ports
  - 5. File Format (Back-up) BU (NVR Player), EXE (includes player)
- F. Security
  - 1. Password Protection 1 Admin, 10 Group, 20 Users per one group. Users can be assigned authority for function
  - 2. Data Authentication Watermark

**2.05 INTERFACE**

- A. Monitors
  - 1. VGA Analog RGB 1280 x 1024(60Hz) resolution
  - 2. HDMI 720p/1080p(60Hz) resolution
- B. Audio
  - 1. Inputs Yes (via Network Camera audio support)
  - 2. Output RCA x1
  - 3. Compression G.711, 723, 726
- C. Alarm
  - 1. Inputs Terminal 4 inputs (NO/NC)
  - 2. Outputs Terminal 2 relay outputs (NO/NC)
  - 3. Remote notification Notification via e-mail
- D. Connections
  - 1. Ethernet 2 RJ45 10/100/1000 Base-T
  - 2. USB USB 2.0, 2 ports
  - 3. e-SATA 2 ports
  - 4. Application Support Mouse, Remote Controller
- E. Dome Protocols Samsung Network PTZ cameras are supported

F. Language Korean, Japanese, Chinese, English, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Dutch, Portuguese, Swedish, Danish, Thai, Romanian, Serbian, Croatian, Hungarian, and Greek

**2.06 ELECTRICAL**

A. Input Voltage/Current 100 ~ 240V AC  $\pm$ 10%, 50/60Hz, Auto ranging  
B. Power consumption max. 36W (with 1x HDD)

**2.07 ENVIRONMENTAL**

- A. Operating Temperature +0°C to +40°C (+32°F to +104°F)
- B. Operating Humidity 20% to 85% RH

**2.08 MECHANICAL**

- A. Dimension 215 x 88 x 352mm (8.46 x 3.46 x 13.86")
- B. Weight w/ hard disks Approx. 3 kg (6.61 lbs.)
- C. Rack mount kit NA

**2.09 CERTIFICATIONS**

- A. UL Listed
- B. UL Listed to Canadian safety standards
- C. CE mark
- D. FCC mark

**2.10 WARRANTY**

- A. 3 years, parts and labor.