

SRD-1673D 16 CHANNEL DIGITAL 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 SRD-1673D 16 CHANNEL H.264 REAL TIME DIGITAL VIDEO RECORDER

- A. The digital video recorder (DVR) shall support 16 channels and provide recording rates of 480 frames per second (fps) on NTSC systems and 400 fps on PAL systems. The DVR shall display high-resolution images at a maximum of 960 x 480 pixels on NTSC systems and 960 x 576 on PAL systems.
- B. The DVR shall offer combined BNC and VGA/HDMI video output for main display; H.264 video compression and G.711 audio compression; up to 16 audio inputs and 4 audio output, and PTZ control using coaxial cable.
- C. The DVR shall support network monitoring and integration using Samsung central monitoring system.
- D. All operation and configuration menus shall be provided in several languages, including Korean, Japanese, Chinese, English, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Netherlands, Portuguese, Swedish, Danish, Thailandais, Rumania, Serbia, Croatia, Hungary, Greek, Taiwan.

2.03 DISPLAY

- A. Video
 - 1. Inputs 16 Composite video 0.5-1 Vpp, 75 ohm automatic termination
 - 2. Resolution NTSC: 960 x 480, 720 x 480, PAL: 960 x 576, 720 x 576
- B. Live
 - 1. Frame Rate NTSC: 480fps, PAL: 400fps
 - 2. Resolution NTSC: 960 x 480, 720 x 480, PAL: 960 x 576, 720 x 576
 - 3. Multi Screen Display 1, 4, 7, 9, 13, 16, 16A, PIP, Sequence

2.04 PERFORMANCE

- A. Operating System Linux, embedded
- B. Recording
 - 1. Compression H.264
 - 2. Record Rate NTSC: Up to 480fps @ 960x480 / PAL: Up to 400fps @ 960x576
NTSC: Up to 480fps @ 704x480 / PAL: Up to 400fps @ 704x576
NTSC: Up to 480fps @ 704x240 / PAL: Up to 400fps @ 704x288
NTSC: Up to 480fps @ 352x240 / PAL: Up to 400fps @ 352x288

3. Mode	NTSC: Manual, Schedule (Continuous/Event), Event(Pre/Post), Time lapse (1~30 fps) PAL: Manual, Schedule (Continuous/Event), Event(Pre/Post), Time lapse (1~25 fps)
4. Overwrite Modes	Continuous
5. Pre Alarm	Up to 30 sec. (5, 10, 20, 30 sec.)
6. Post Alarm	Up to 6 hour. (5, 10, 20, 30 sec, 1, 3, 5, 10, 20 min, 1, 2, 3, 4, 5, 6 hours)
C. Search & Playback	
1. Search Mode	Date/Time, Event, Back up, Position, Motion (All searching mode include preview function)
2. Playback Function	Fast forward / backward, Slow forward / backward, Step forward / backward
D. Network	
1. Transmission Speed	Up to 32 Mbps, 4CIF/2CIF/CIF 120/240/480fps NTSC, 100/200/400fps PAL
2. Bandwidth Control	Selectable
3. Multi Stream	H.264 (4CIF, 2CIF, CIF Selectable)
4. Max. Remote Users	Search 3, Live Unicast 10, Live multicast 20
5. Protocol Support	TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP, DDNS, RTP, RTSP, SNMP
6. Monitoring	Net-i viewer, Smart viewer, Web viewer
E. Storage (Back up)	
1. Internal HDD	Up to 4 SATA HDDs
2. External HDD	Up to 2 expansion bays)
3. DVD Writer	YES
4.USB	2 USB ports for backup
5. File Format	BU(DVR Player), EXE(Include Player)
F. Security	
1. Password Protection	1 Admin, 10 Group, 10 User per 1 Group
2. Data Authentication	Watermark

2.05 INTERFACE

A. Monitors	
1. VGA	1 VGA (1280x720, 1280x1024, 1920x1080)
2. HDMI	1 HDMI (1280x720, 1280x1024, 1920x1080)
3. Main Composite	N/A
4. Spot Composite	Digital Spot (2 BNC, 1 Vp-p, 75 ohm) ※ Included OSD On Screen
5. Loop Outputs	N/A
B. Audio	
1. Inputs	16CH line in (Built in 4CH, Option : Audio Extension Cable)
2. Output	1 line
3. Compression	G.711
4. Sampling Rate	8KHz
C. Alarm	
1. Inputs	Terminal 16 inputs, NO/NC
2. Outputs	Terminal 4 relay outputs, NO/NC
3. Rating	30V DC/2A, 250V AC/0.25A
4. Remote Notification	Notification via e-mail
D. Connections	
1. Ethernet	1 RJ-45 10/100/1000 Base-T
2. Serial Interface	RS-232/RS-485 for PTZ, Samsung System Keyboard
3. USB	USB 2.0, 2 ports
4. eSATA	2 external SATA ports
5. Application Support	Mouse, Remote controller

E. Protocols Supported	Samsung-E/Samsung-T/Pelco-D/Pelco-p/Panasonic/ Phillips/ AD/ DIAMOND/ ERNA/ KALATEL/ VCL TP/VICON/ ELMO/GE
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2.06 GENERAL

A. Electrical	
1. Input Voltage	100 ~ 240V AC $\pm 10\%$, 50/60Hz, Auto ranging
2. Power Consumption	Max. 60 W (with 1x HDD)
B. Environmental	
1. Operating Temperature	+0°C ~ +40°C (+32°F ~ +104°F)
2. Operating Humidity	20% ~ 85%RH
C. Dimensions	W440 x H88 x D246.8(17.32" x 3.46" x 9.72")
1. Mechanical Weight (2x Hard Disks)	Approx. 5.2 kg (11.46 lb)
2. Rack Mount Kit	2 each
D. Languages	Korean, Japanese, Chinese, English, French, German, Spanish, Italian, Russian, Polish, Czech, Turkish, Netherlands, Portuguese, Swedish, Danish, Thailandais, Rumania, Serbia, Croatia, Hungary, Greek, Taiwan (23 Language)

2.07 CERTIFICATIONS

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

2.08 WARRANTY

3 years, parts and labor.