

SRD-450 CIF H.264 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-450 CIF H.264 DIGITAL VIDEO RECORDER

- A. The digital video recorder (DVR) shall support 4 channels and provide recording rates of 120 images per second (ips) on NTSC systems and 100 ips on PAL systems at CIF resolution. The DVR shall display high-resolution images at a maximum of 704 x 480 pixels on NTSC systems and 704 x 576 on PAL systems.
- B. The DVR shall provide CIF resolution real-time recording capability, with 4CIF recording available.
- C. The DVR shall offer SATA HDD support with one internal HDD.
- D. The DVR shall provide smart phone support (iPhone).
- E. All operation and configuration menus shall be provided in several languages English, French, Spanish, German, Italian, Turkish, Russian, Korean and Japanese.

2.03 DISPLAY

- A. Video
 - 1. Inputs 4 composite video 0.5–1 Vp-p, 75 ohm
 - 2. Resolution 704x480 NTSC
704x576 PAL
- B. Live
 - 1. Frame rate 120fps NTSC
100fps PAL
 - 2. Resolution 704x480 NTSC
704x576 PAL
 - 3. Multi Screen display 1/4/Sequence

2.04 PERFORMANCE

- A. Operating System Embedded Linux
- B. Recording
 - 1. Compression H.264
 - 2. Record Rate NTSC Up to 30fps @ 704x480
Up to 60fps @ 704x240
Up to 120fps @ 352x240
 - 3. Record Rate PAL Up to 25fps @ 704x576
Up to 50fps @ 704x288
Up to 100fps @ 352x288

4. Mode NTSC	Manual, Schedule (Continuous/Event), Event (Pre/Post), Time lapse (1/2/3/7/15/30 fps)
5. Mode PAL	Manual, Schedule (Continuous/Event), Event(Pre/Post), Time lapse (1/2/3/7/13/25 fps)
6. Overwrite modes	Continuous
7. Pre-alarm	Up to 5 sec.(1, 2, 3, 4, 5 sec)
8. Post-Alarm	Up to 180 sec (5,10,15, 20, 30, 60, 120, 180 sec)
C. Search & Playback	
1. Search mode	Date/time, Event
2. Playback function	Fast Forward/Backward (x2, x4, x8,16, x32, x64), Step Forward/Backward (x2, x4, x8, 16, x32, x64)
D. Network	
1. Transmission speed	CIF 120/100fps
2. Bandwidth	Up to 8Mbps, Unlimited (8M), 2, 1.5, 1 Mbps 800, 600, 500, 400, 300, 200, 100, 50 kbps
3. Bandwidth control	Selectable
4. Stream	H.264 (4CIF, 2CIF, CIF Selectable)
5. Remote users	Up to 4 (4 Live or 4 Search)
6. Protocol support	TCP/IP, DHCP, DDNS, NTP, HTTP, RTSP
7. Monitoring	Webviewer
E. Smart phone	
1. Phone	i-Phone
2. Protocol support	RTSP, HTTP
3. Transmission speed	Wi-Fi: CIF Max 14fps (Single Channel) CIF Max 3.5fps (Quad Channel) 3G: CIF Max 14fps(Single Channel)/ CIF Max 3.6fps(Quad Channel)
F. Remote users	1, Live
G. Storage	
1. Internal HDD	Up to 1 SATA HDDs
2. External HDD/DVD	Not supported
3. DVD Writer (Back-up)	Not supported
4. USB (Back-up)	USB Stick Memory Only(up to 20GB)
5. File Format (Back-up)	AVI
H. Security	
1. Password Protection	8 Users (1 Admin, 7 Managers and Users, English only, with special character)
2. Data Authentication	Watermark

2.05 INTERFACE

A. Monitors	
1. VGA	1 VGA (1024x768)
2. HDMI	Not supported
3. Main Composite	1 BNC (1 Vp-p, 75 ohm)
4. Spot Composite	Not supported
5. Loop Outputs	Not supported
B. Audio	
1. Inputs/Output	4CH line in/1CH line out
2. Compression	ADPCM
3. Sampling rate	64KHz
C. Alarm	
1. Inputs/Outputs	4CH, Pulled up to 5V via 10K Ohm/1CH, Relay
2. Remote notification	Notification via e-mail(With 1CH Snapshot JPEG image attached)
D. Connections	
1. Ethernet	1 RJ45 10/100 Base-T
2. Serial interface	Not supported
3. USB	USB 2.0, 2 ports
5. e-SATA	Not supported

- E. Application Support Mouse (Not Included), Remote Controller (Included)
Upgrade - USB Stick memory
- F. Protocol support Not supported

2.06 GENERAL

- A. Electrical
 - 1. Input Voltage/Current DC12V Adaptor, 3.3A, 100~240VAC, 50~60Hz
 - 2. Power consumption 18.2W
- B. Environmental
 - 1. Operating Temperature +0°C to +40°C (+32°F to +104°F)
 - 2. Operating Humidity 20% to 85% RH
- C. Mechanical
 - 1. Dimension 290 x 60 x 224.3mm
 - 2. Weight w/ hard disks Approx. 1.84 kg
 - 3. Rack mount kit Not supported
- D. Language
 - 1. NTSC English, French, Spanish, Korean, Japanese
 - 2. PAL English, French, Spanish, German, Italian, Turkish, Russian

2.07 CERTIFICATIONS

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

2.08 WARRANTY

- A. 3 years, parts and labor.