A&E Specifications

SRD- 440 **4** channel digital video recorder

Version 1.0

1. **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. **DISPLAY**

a. Video	
i. Video Input:	4 Analogue, BNC connectors NTSC/PAL 75ohm automatic termination
ii. Resolution	PAL: 704 x 576
b. Live	
i. Frame Rate	PAL: 100fps
ii. Resolution	PAL: 704 x 576
iii. Multi-Screen Display	1 / 4 / Sequence / PIP

3. **PERFORMANCE**

i. Operating System	Lynux
ii. Compression	H.264
b. Recording	
i. Record Rate	Up to 25fps @ 704 x 576 (P) D1 Up to 50fps @ 704 x 288 (P) 2CIF Up to 100fps @ 352 x 288 (P) CIF
ii. Mode	Manual, Schedule, Continuous, Event (Pre/Post), Time-Lapse (1.6, 3.1, 6.2, 12.5, 25fps)
iii. Overwrite mode	Continuous
iv. Pre-alarm	Up to 1 - 5 sec
v. Post-alarm	Up to 6-hrs 5,10,20,30sec / 1, 3, 5, 10, 20mins / 1-6hrs
c. Search & Playback	
i. Search Mode	Date/time, Event, Back up, Pos, Motion
ii. Playback Function	REW, FWD, Slow Forward/Backwards, Step by Step REW/FWD
d. Network IPv4	
i. Multi-Stream	H.264 (CIF)
ii. Protocol Support	TCP/IP, DHCP, PPPoE, SMTP, NTP, HTTP, DDNS, RTP, RTSP
iii. Remote users	4 (Search up to 2, Live uncast / live multicast available)
iv. Remote Monitoring	Webviewer, CMS (SmartViewer, NET-i)
e. Smart Phone	
i. SmartPhone	Android, i-Phone (iPad included)
ii. Protocol Support	RTP, RTSP, HTTP, CGI
iii. Transmission Speed	CIF Max. 15fps (single channel) / CIF Max 2fps (Quad channel)
iv. Max. Remote Users	Live 1
f. Storage	
i. Internal HDD	Up to 1 SATA HDD
ii. USB (Back up)	2 External USB ports
iii. File Format (Back up)	BU (DVR player), EXE (Include player)

g. Security	
i. Password Protection	1 Admin, 10 Group, 10 User per 1 group
ii. Data Authentication	Watermark
4. INTERFACE	
a. Monitors	
i. VGA	1 x VGA (1,024 x 768) Main composite selectable
ii. Main Composite	1 x BNC, 1 Vp-p, 75 ohm, / Analogue spot (1 BNC, 1 Vp-p, 75 ohm) selectable
b. Audio	
i. Inputs / Output	1 Ch Line in / 1Ch line out
ii. Compression	G.711 ULAW (8KHz, 16Bit)
iii. Sample Rate	8KHz
c. Alarm	
i. Inputs	4 inputs, NO/NC
ii. Output	1-relay outputs NO/NC
iii. Rating	24V DC / 1A, 125V AC / 0.5A
iv. Remote Notification	Notification via e-mail
d. Connections	
i. Ethernet	RJ-45 10/100 Base-T
ii. Serial Interface	RS-485 (half) for PTZ, System keyboard *Support for POS interface (VSI-Pro)
iii. USB	2 x USB 2.0
iv. Application Support	Mouse, Remote control
v. Protocol Support	Samsung-T/E, Pelco-D/P, Panasonic, Philips, AD, Diamond, Erna, GE, VCL, TP, Vicon, Elmo
5. GENERAL	
a. Electrical	
i. Input Voltage	12V DC adapter, 4A, 100 – 250V AC, 50/60Hz, 48W
ii. Power Consumption:	36 watts (1 X HDD)
b. Environmental	
i. Operating Temperature:	+0° to 40°C
ii. Operating Humidity:	20% to 85% RH (non-condensing)
c. Physical	
i. Dimensions:	255 W x 44 H x 203.5 D mm
ii. Weight:	1.6 kg (including 1 x HDD)
d. Languages	English, Spanish, French, German, Italian, Polish, Portuguese, Russian, Turkish, Czech, Serbian, Swedish, Netherlands, Danish, Rumanian, Croatian, Hungarian & Greek
6. WARRANTY	3 years, parts and labour

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