

# Exceptional Visual Experience



720 × 576  
720 × 576

# 7000SM

## MPEG-4 Video Hardware Compression Card

### Outstanding Performance

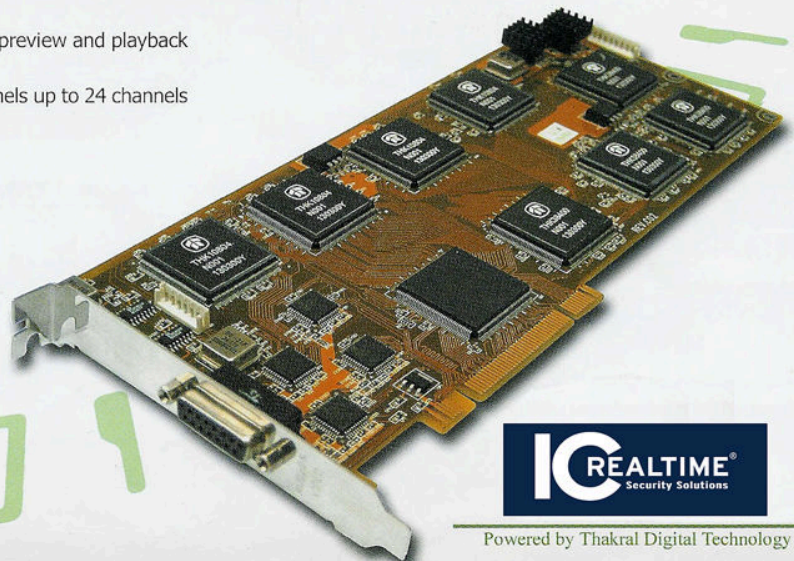
D1 Resolution (720x576 for PAL; 720x480 for NTSC) for preview and playback  
Simultaneous real-time preview and playback  
Dedicated framerate @25/30 fps per channel for all channels up to 24 channels  
Supports MPEG 1, 2, 4 and MJPEG standards  
Supports CIF, QCIF, •D1, D1 resolution

### Stability and Scalability

Hardware compression standards  
Less than 2% CPU resource usage per channel  
1/2/4 channels per card

### User Control and Flexibility

User-defined video resolution quality  
User-defined bitrate and framerate  
Ability to optimize storage space



Powered by Thakral Digital Technology

# 7000SM



## MPEG-4 Video Hardware Compression Card

### Main Features

- Reliable hardware-based real-time MPEG-1, 2, 4, MJPEG video compression
- No drop in framerate with the addition of more channels, up to 24 channels
- Software drivers use less than 2% CPU resource per channel
- Maximum stability and reliability
- Enables high-end applications to run smoothly
- Capture of high resolution preview image and playback (saved as .bmp files), in D1 (720x576) quality
- Comprehensive and simple to use SDK with technical support for building custom applications

### Main Functions

- User-defined monitoring and scheduling
- Multiple window monitoring
- Remote alarm, video capture
- Remote still frame capture and pulse signal input
- Remote monitoring with PSTN lines
- Watermark feature

### Product Overview

Model	Video Input by Hardware	Audio Input by Hardware	Alarm Inputs On Board	Alarm Outputs On Board	Duplex Multiplexer Switcher	Maximum Cards per System	Maximum Channel per System
AVE7000SMS	1	Yes	Yes	Add Board	Yes	8	8
AVE7000SMD	2	Yes	Yes	Add Board	Yes	8	16
AVE7000SMQ	4	Yes	Yes	Add Board	Yes	8	32

### Technical Specifications

Description	7KSMS	7KSMD	7KSMDQ
Nos. of channels	1	2	4
Power consumption	3.5W	7W	15W
Dimension (in mm, without rack)	120x85	157x109	262x112
Alarm input/output	Optional	Optional	Optional
OSD	Yes	Yes	Yes
Video input interface	1BNC	DB15	DB15
PC Slot	PCI, 33M, 32bit, 5V		
AV Compression standard	MPEG-4(ISO/IEC14496-2)		
Compressed frame size	Panoramic recording: D1/CIF/QCIF Partial recording: PAL: variable between 48~576 pixels vertically in step of 16 pixels, between 48~464 pixels horizontally in step of 16 pixels NTSC: variable between 48~480 pixels vertically in step of 16 pixels, between 48~464 pixels horizontally in step of 16 pixels		
Preview frame size	PAL: horizontal: discretional size; Vertical: discretional size less than 576 pixels NTSC: horizontal: discretional size; Vertical: discretional size less than 480 pixels		
Video compression bit rate	CIF: 40 ~ 9000 Kbps; D1: 200 ~ 18000 Kbps		
Compression frame rate	Adjustable PAL: 1-25fps; NTSC: 30fps		

### Recommended System Requirements

- Highly recommended: Windows XP Professional or Windows 2000 with SP2 or SP3
- Pentium 4 1.0Ghz or above
- 256 MB Ram or higher (For 8 channels operation)
- Hard Disk Requirement : 40 GB or more as required
- ATX Power Supply of 400W (Total Amps output 3.3V DC voltage)
- Min. : 20A for 8 channels
- Min. : 28A for 16 channels or more
- MB Chipset : 845, 850, 865
- Display Card : Nvidia series, ATI series, Inter 810,815 or other AGP display card or PCI display card with overlay support (Min. : 32MB for 16 channels)



Agent / Distributor:

