

V3063A Series

Embedded Digital Video Recorder

Infinova[®]
The Integrator's Manufacturer



- Adopts H.264 video compression and G.711A audio compression algorithms, encoding performance stable and reliable
- Supports up to 16-channel analog video signal input, PAL and NTSC optional
- Supports up to 16-channel analog audio signal input, real-time audio/video encoding and storing
- Dual code streams, video stream (major stream) up to WD1, network stream (minor stream) Q960H / QQ960H, each channel video encoding parameters independent and adjustable
- One channel HDMI, one channel VGA and two channels BNC video output (including one channel SPOT sequence output)
- Video loop out
- Maximum 16 channels video preview and synchronous playback
- Supports preview group switch, tour preview and the automated tour cycle is configurable
- Privacy mask and motion detection
- Supports Region of Interest (ROI) coding enhance which ensures the image quality of key areas while lowers the encoding of the whole area to save hard disk space
- Supports multiple mainstream PTZ decoder control protocols, preset and pattern
- Supports video loss alarm, video motion detection alarm and video obstruction alarm
- Provides many abnormal alarm handling mechanism, supporting full hard disk alarm, hard disk error alarm, network disconnection alarm and over-heating alarm
- Supports recording and screenshot triggered by modes of manual, timing, alarm (including motion detection), etc.
- Supports alarm video pre-recording and post-recording
- Supports voice intercom
- Supports video clips and backups
- Supports partial digital zooming in on any region when performing preview and playback
- Supports backup functions such as USB, eSATA and DVD
- Supports NTP network time calibration service
- Supports 8 SATA hard disk ports and each disk supports up to 4T
- Supports hard disk hibernation and S.M.A.R.T detecting

The V3063A Series Embedded Digital Video Recorder adopts H.264 compression algorithm, Linux Operating System and embedded processor, which combine functions of video and audio acquisition, compression, storage, network transfer, multiple PTZ control and alarm detection in a single board. It provides various ports that support network, USB2.0 high speed backup, and is compatible with D1, WD1 standard video input, supporting video loop output. It has abundant storage ports of which the number of the hard disk SATA ports is up to 8 and of eSATA ports 2. The ports guard the security of your data. The V3063A Series product can not only conduct local work as a digital video recorder but also join a strong security system by connecting to a network. This product may be widely used for the security and protection of finance, public security, army, telecommunication, transportation, electric power, education, water power, etc.

Technical specifications

Video	
Compression	H.264
Input	16 channels, BNC (1.0Vp-p, 75Ω)
Output	1 channel, HDMI (resolution: 1920 × 1080, 1280 × 720, 1440 × 900, 1280 × 1024, 1024 × 768) 1 channel, VGA (resolution: 1920 × 1080, 1280 × 720, 1440 × 900, 1280 × 1024, 1024 × 768) 2 channels, BNC (1.0Vp-p, 75Ω)
Loop Output	16 channels, BNC (1.0Vp-p, 75Ω)
System	PAL, NTSC
Recording Resolution	Recording stream (major stream): WD1/FD1/Q960H/CIF Network transmission stream (minor stream): Q960H/CIF/QQ960H/QCIF
Frame Rate	PAL: 1 ~ 25fps, NTSC: 1 ~ 30fps
Output Data Rate	Video stream (major stream): 512Kbps ~ 4Mbps, data rate adjustable Network stream (minor stream): 100Kbps ~ 1Mbps, data rate adjustable
Audio	
Compression	G.711A
Input	16 channels
Output	1 channel, BNC (1.4Vp-p, 300Ω)
Voice Intercom Input	1 channel, 3.5mm earphone port
Voice Intercom Output	1 channel, 3.5mm earphone port
Audio Data Rate	16Kbps
Port	
Serial Port	1 × RS-232 (DB9) 1 × RS-422 (4 PIN terminals)
Network Port	1 × RJ-45, 10M/100M/1000M self-adaptive
Alarm Port	16 channels input, 4 channels output (5VDC)
USB Port	4 (2 front, 2 back)
Record	
Mode	Manual, timing, alarm (including motion detection)
Synchronous Playback Channel Number	16 channels

Playback Speed	Fast forward: 2×, 4×, 8×, 16×, frame forward Slow forward: 1/2×, 1/4×, 1/8×, 1/16× Fast backward: 2×, 4×, 8×, 16× Slow backward: Return a second, frame backward
Storage	
Hard Disk Port	8 SATA ports, each supports up to 4T hard disks
Backup	Recording backup via USB ports and USB burners
eSATA	2 (1 front, 1 back)
Network	
Protocol	TCP/IP, RTP, UDP, ICMP, DHCP, DNS, NTP, etc.
Others	Narrow-band connection, alarm signals can be uploaded via network
Operation	
Operating System	Embedded Linux
User	User group management; local, configuration and remote permissions
Operation	Front panel, remote controller, mouse
Electrical	
Input Voltage	100 ~ 240VAC self-adaptive
Power	20W (w/o HDD)
Power Failure Protection	Automated power restore after power failure
Mechanical	
Product Weight (w/o HDD)	17.64lbs (8kg)
Shipping Weight (w/o HDD)	24.25lbs (11kg)
Product Dimension (L x W x H)	17.32" × 17.32" × 3.47" (440mm × 440mm × 88mm)
Package Dimension (L x W x H)	21.06" × 21.06" × 8.47" (535mm × 535mm × 215mm)
Environmental	
Operating Temperature	14°F ~ 122°F (-10°C ~ 50°C)
Storing Temperature	-4°F ~ 158°F (-20°C ~ 70°C)
Operating Humidity	5% ~ 90% (no-condensing)
Certifications and Approval	
Product Certifications	FCC ¹ , CE ²

Certificate No.: ¹RSZ150610003-00A1; ²RSZ150610003-01A1.

Ordering information

V3063A-16 Embedded digital video recorder, maximum resolution WD1, 16 channels video input, 16 channels video loop out, 16 channels audio input, no hard disk drives provided

Hard Drive Ordering Information

V3091 Series SATA hard disk drive

V3091-1000-S SATA port hard disk drive, 1TB

V3091-2000-S SATA port hard disk drive, 2TB

V3091-3000-S SATA port hard disk drive, 3TB

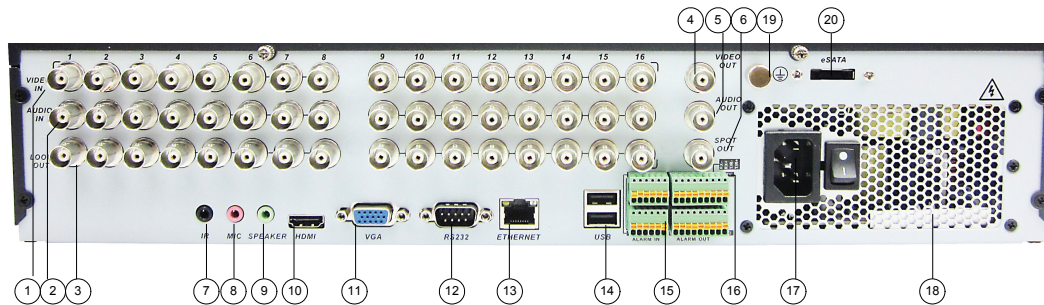
V3091-4000-S SATA port hard disk drive, 4TB

V3091-2000-W SATA port hard disk drive, 2TB

V3091-3000-W SATA port hard disk drive, 3TB

V3091-4000-W SATA port hard disk drive, 4TB

Rear panel view



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|--|----------------|---------------------------|-----------------------|
| 1. Video input | 2. Audio input | 3. Video loop out | 4. Video output |
| 5. Audio output | 6. SPOT output | 7. IR extension line port | 8. Intercom MIC input |
| 9. Intercom SPEAKER output | 10. HDMI port | 11. VGA video output | 12. RS-232 port |
| 13. 10/100/1000M self-adaptive Ethernet port | 14. USB port | 15. Alarm input/output | 16. RS-422 port |
| 17. Power and switch | 18. Fan | 19. Grounding terminal | 20. eSATA port |