

# *M-JPEG Triplex Network*

# **TongSon**

## *9 CH Stand-Alone Digital Video Recorder*

**Model No.: DVR-3009**



***Built-in Hot Swappable  
Removable HDD***



### **Features:**

- ⊙ Non-PC based DSP hardware with proprietary system firmware.
- ⊙ Full triplex operation allows live viewing/ video recording/ playback and network access simultaneously.
- ⊙ Pre-alarm image recording: 10 seconds.
- ⊙ Multiscreen display: assignable for each multiscreen.
- ⊙ Refresh rate up to 60 field/sec for 720X240 (NTSC) or 50 field/sec for 720X288 (PAL).
- ⊙ Compression: Motion JPEG.
- ⊙ Channels specify the alarm record rates: normal, double, interleave, and exclusive.
- ⊙ Quick search by Event list/ Time/ Alarm list/ Filter/ Thumbnail/ SD card.
- ⊙ Fast and slow playback of recorded video at various speeds.
- ⊙ Covert camera recording.
- ⊙ Schedule setting: 8 schedules in total.
- ⊙ Remote control via the RS-232, RS-485 and Ethernet ports.
- ⊙ Motion detection option parameters: sensitivity, detection area, size, duration, and track direction.
- ⊙ Auto power interruption recovery.
- ⊙ Remote viewing of live and recorded images through TCP/IP network environment.
- ⊙ Three audio quality levels (8/ 22/ 44 kHz sampling,  $\mu$ -law).
- ⊙ Built-in SD memory card slot to save JPEG/AVI image(s) by channel to an SD memory card.
- ⊙ Daylight saving setting.
- ⊙ Controls multiple brand Pan/Tilt/Zoom cameras through network.

**TongSon Electronic Co., Ltd.**

**TEL: +886-2-2794-6800 / FAX: +886-2-2794-8663**

**URL: <http://www.tongson.com.tw>**

# Specification:

<b>Model No.</b>	<b>DVR-3009</b>
<b>Operation Mode</b>	<b>Triplex (Live, Play, Record and Network Simultaneous)</b>
<b>Resolution</b>	<b>NTSC: 720x240 pixels; PAL: 720x288 pixels</b>
<b>Video In</b>	<b>BNC x 9 (termination: DIP SW)</b>
<b>Video Out</b>	<b>Main (BNC), Spot (BNC), Looping(BNC) x 9</b>
<b>Audio In/Out</b>	<b>Stereo, Line In / Out (RCAX4), 8kHz / 22kHz / 44kHz, <math>\mu</math>-law</b>
<b>Compression</b>	<b>MJPEG</b>
<b>Storage Media</b>	<b>&gt;900Gb / 2 Fixed HDD and 1 Removable HDD</b>
<b>Archive</b>	<b>Hot Swappable Removable HDD / SD Card</b>
<b>Watermark</b>	<b>Digital signature</b>
<b>Recording Rate</b>	<b>NTSC: 60 fps ; PAL: 50 fps</b>
<b>Image Size</b>	<b>Best (40KB) / High (32KB) / Standard (24KB) / Basic (16KB)</b>
<b>Recording Mode</b>	<b>Schedule / Manual / Alarm / Circular / External control</b>
<b>Alarm Recording</b>	<b>Pre-Alarm / Post-Alarm</b>
<b>Pre-alarm Recording</b>	<b>10 Sec</b>
<b>Playback Speeds</b>	<b>Jog/Shuttle dial access Fast forward / reverse : 1X, 2X, 4X, 8X, 16X, 30X, 100X Slow forward / reverse : 1/2X, 1/4X, 1/8X, 1/16X, 1/30X, 1/100X and pause</b>
<b>Record Search</b>	<b>Event list/ Time/ Alarm list/ Filter/ Thumbnail/ SD card</b>
<b>Zoom</b>	<b>X2</b>
<b>Motion Detection</b>	<b>Advanced MD (Zone, Position, Sens)</b>
<b>OSD</b>	<b>Cam title / Time &amp; Date / Mode / Error</b>
<b>Set-up Menu</b>	<b>Advanced / Quick / Network setting</b>
<b>Log List</b>	<b>2048 records operation log</b>
<b>Alarm In/out</b>	<b>9 Alarm Input / 3 Alarm Output</b>
<b>Built In Buzzer</b>	<b>Yes</b>
<b>Camera Title</b>	<b>9 char.</b>
<b>Communication Port</b>	<b>RS-232, RS-485</b>
<b>Network Interface</b>	<b>Ethernet (RJ-45 10/100 base-Tx)</b>
<b>Network Protocol</b>	<b>TCP/IP, DHCP, HTTP</b>
<b>Software Upgrade</b>	<b>Upgradeable via Memory card (SD Card)</b>
<b>Password Protection</b>	<b>Operation / Menu Setup / Remote Access</b>
<b>Power Supply</b>	<b>Input: 100-230V, 50/60 Hz; Output: DC12V max 5A: (AC adapter)</b>
<b>Dimensions</b>	<b>430 x 55 x 405 mm EIA 19" Mountable</b>
<b>Operating Temperature</b>	<b>5 - 40 °C(41 -104 °F)</b>

※Design and specifications are subject to change without notice