

HD, cloud computing drive R&D

Typical features

- **Video I/O:** Most DVRs support four to 16 channels of camera input via 1Vp-p/75ohm BNC connectors. Units offering eight and 16 channels belong to the midrange and high-end selections. Mainstream models generally have one or two output channels, connecting to monitors through BNC, VGA or HDMI ports.



- **Compression chip:** Basic systems adopt ASICs, which are generally less expensive and easier to develop. Makers source these mainly from HiSilicon, Faraday and Grain Media. The most common solutions are the Hi351x, FIC8120 and GM81xx series, respectively. DSP is employed in midrange and upscale varieties for algorithm and function flexibility. TI's MS320DM365, ADI's BF532 and NXP's PNX847x are preferred. The common compression algorithms are H.264 and MPEG-4.

- **Data storage:** Mainstream products have one to four 3.5in SATA HDDs. CD-RW and DVD-RW drives are optional for backup.

- **Control panel:** Function buttons, USB ports and LED status indicators are on the front panel for easy access. The software system can be opened from here. Buyers can choose from embedded Linux, built-in web server or multilanguage menu.

- **Network interface:** All products have networking capability. The 10/100Mbps RJ-45 port is typically used for remote monitoring. Hybrid variants and network video recorders come with IP camera input interface. For communication or PTZ control, there are RS-232 and EIA-485 ports in some models.

| Price range (per unit) | Basic features |
|---------------------------|--|
| \$40 to \$50 | 4-channel video input; ASIC; H.264 or MPEG-4 compression format; CIF or D1 recording resolution; networking capability |
| Above \$50 to \$200 | 8 to 16-channel video input; ASIC or DSP chip; H.264 or MPEG-4 compression format; D1 recording resolution; networking capability, PTZ control; alarm I/O |
| Above \$200 | 8 to 16-channel video input; DSP chip; H.264 or MPEG-4 compression format; D1 or 720p recording resolution; networking capability, PTZ control; alarm I/O, HDMI or VGA HD output ports |

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Top trends

- **HD shift:** China suppliers are upgrading their stand-alone DVRs to match the HD trend in the surveillance industry. More models have HDMI and VGA ports. Upscale units support 720p or higher recording resolution, adopting advanced chips for better encoding and compatibility.
- **960H adoption:** Still in line with the HD focus, makers are developing products that use Sony's Effio 960H solution. The component package is preferred for its resolution, cost efficiency and compatibility with existing analog systems. Variants from major players support up to 700 TVL or 960x576-pixel recording and playback.
- **Gearing up for cloud storage:** Suppliers are intensifying R&D on cloud storage to improve security, reliability and accessibility as available technologies for DVR use are still in infancy stage. Some have launched optional software services.
- **Sales forecast:** China makers predict upcoming HD, hybrid and NVR models will drive growth in coming months. They target a 20 percent increase in sales.

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[Cantonk Corp. Ltd](#)

★★★★★

Model: CK-A9008

Description: 8-channel input; H.264; simultaneous recording, 240fps NTSC, 200fps PAL, CIF; pentaplex; 3G

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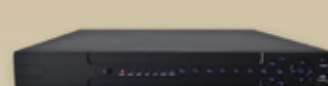
[China Security & Surveillance Technology Inc.](#)

★★★★★

Model: D7814HT

Description: 4-channel input; H.264; D1, HD1, CIF recording; hexaplex

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[Hangzhou Jufeng Technology Co. Ltd](#)

★★★★☆

Model: 5004DA-EH

Description: 4 to 8-channel input; H.264; realtime recording, pentaplex, dual streaming; motion detection

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[Laview Security Ltd](#)

Model: LTD2516HC

Description: 16-channel input; H.264; 1280x1024 or 1920x1080 pixels; D1 realtime recording; privacy zone masking, watermarking



[Longse Electronics Ltd](#)

★★★★★

Model: LS-9004S

Description: 4-channel input; H.264; CIF or D1 recording; hexaplex; PTZ control, alarm, networking, USB backup

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[Shenzhen Success Electronics Co. Ltd](#)

★★★★☆

Model: TS-5316L

Description: 16-channel input; H.264; manual, scheduled, alarm-triggered recording; multiplex; motion detection

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