

## DYK Series 4-Channel H.264 DVR



### Product Summary

The DYK series is the newest family of value-line Digital Video Recorders from ADT. The DYK4500 is a four channel digital video recorder featuring advanced H.264 compression - ensuring an efficient use of hard disk drive storage – meaning more days of video storage. Real-time recording is supported with frame rates of 30-ips per camera for a maximum of 120-ips for the four channel recorder. PTZ operation is supported using common control protocols. The unit features simultaneous live display, record, backup, playback and network access. The DYK series offers picture-in-picture (PIP) and 2X digital zoom capability as well as email notification for motion, alarm or video loss events. The DYK series offers full 3G remote viewing of the cameras from the user's mobile phone.

Some of the more popular phone models are able to interface using their internal browser. Approved phone Operating Systems include Win Mobile 5.0 or above, Symbian, Blackberry (9000 series) and Apple using the Safari browser and the others using Firefox and Opera browsers.

### System Local Operation

The DYK series feature a graphical user interface (GUI) which is easily navigated using the front panel controls, included mouse or IR

remote control. All system programming and control is accomplished using on-screen icons and easy to follow dialog screens.

### Remote System Operation

The DYK series support remote access via TCP/IP supported networks. Remote access and control is available using IE browser through the built-in web server or by using the supplied client Central Management System (CMS). The IE browser allows full DVR operation, control, system programming, live view and search capability. The client-based remote software (CMS) included with the unit allows live viewing and image search/playback from the remote location. Up to sixteen DVRs may be connected simultaneously using the CMS client. The CMS client features multi-channel recording, E-MAP, remote recording, video backup and still image capture.

### Connector Interface

The recorder offers four BNC inputs (non-looping) for the four camera inputs, one audio input and one audio output. The DYK series offers a VGA video monitor output as well as a BNC Main output and BNC SPOT monitor for composite video signals. One IP network port is provided as well as connections for RS485 and alarm input/outputs.

### Features

- 4-Channel Digital Video Recorder with 1-Channel of Audio
- Built-in web server (IE Browser)
- 120-ips – CIF resolution (360x240)
- 60-ips – 2CIF resolution (720x240)
- 30-ips – 4CIF resolution (720x480)
- Full-Function IR Remote Control (included)
- USB v2.0 port with full mouse support (included)
- Quad, Full-Screen and Sequential Camera view with built-in in PIP and 2X Digital Zoom
- Composite / VGA Main Monitor Outputs
- Composite SPOT Monitor Output
- Remote Monitoring using TCP-IP
- User Friendly Graphical User Interface (GUI) with PTZ Control
- Time-Lapse, Event and Pre-Event Recording Selectable by Camera
- Variable Recording Speed (ips) and Image Quality by Camera
- Individual Camera Mask, Brightness, Contrast, Saturation, Hue
- Programmable Event Action
- Built-in Motion Detection, Alarm-in and Video-loss Alarm Inputs by Camera
- Search Function for Calendar, Date/Time and Event
- Key-Lock Security / 4 individual users
- Encrypted Video Files
- SMTP email for VLoss, Motion and Sensor events
- Overwrite or Stop HDD Options
- Multi-Language Menus
- 3G/GPRS Mobile Phone Monitoring Capability
- Internet Time Synchronization
- Executable Player Software attached to Encrypted Archived Video

### Ordering Guide:

SCN#	Item
DYK4500	4-channel, Digital Video Recorder, H.264, VGA, USB, 500GB



## Specifications

### Model DYK4500

4-channel, Digital Video Recorder,  
H.264, VGA, USB, 500GB

### Video

Signal Format  
Video Input  
Monitor Outputs

NTSC or PAL (switchable)  
Composite: 4 inputs (non looping)  
Composite: One (BNC) Main Video,  
1Vp-p, 75-ohms  
Composite: One (BNC) SPOT Video,  
1Vp-p, 75-ohms  
Analog RGB: One VGA  
720x480 (NTSC)  
720x480, 720x240, 360x240 (NTSC)  
120-ips, 60-ips, 30-ips  
1, 4 (quad)  
2X  
5 levels (Highest/High/Normal/Low/Lowest  
Manual, Schedule, Event (Motion,  
Sensor, Video Loss)  
H.264

Display Resolution  
Record Resolution  
Playback/Record Speed (ips)  
Display Divisions  
Zoom  
Quality  
Record Mode

Codec

### Inputs / Outputs

Alarm Input 4  
Alarm Output 1 relay output, terminal block, NC&NO  
Internal Buzzer YES  
Network Connectivity 10/100 Base Ethernet  
Audio Input 1 line level  
Audio Output 1 line level

### Connectors

Video Input Composite: 4 BNC  
Video Output n/a  
Monitor Output Composite: 1 BNC  
SPOT Monitor Output VGA: 1 15-pin D-sub  
Audio Input Composite: 1 BNC  
Audio Output 1 RCA  
Alarm Input 1 RCA  
Alarm Output 4 external sensor, terminal block  
Ethernet Port 1 Relay, terminal block  
RS-485 Serial Port RJ-45  
USB Port Terminal block  
IR Port 1 front panel v 2.0  
1 front panel, remote control

### Storage

Primary Storage 1 HDD, 500GB, 1TB  
Backup Storage USB (HDD, CD-RW, Flash Drive)

### General

Dimensions (W x H x D) 7.4" x 2.1" x 8.2"  
188mm x 54mm x 209mm  
Unit Weight 4.4lbs (2kg)  
Shipping Weight 4.8lbs (2.2kg)  
Operating Temperature 4°F - 104°F (5°C - 40°C)  
Operating Humidity 30 - 80%RH  
Voltage 12VDC via 120VAC power adapter  
Power 50W (12VDC, 4.2A)

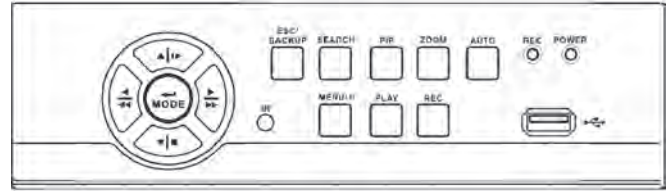
### Approval

DVR: CE, FCC, RoHS  
Power Adapter: UL, CE, FCC, RoHS

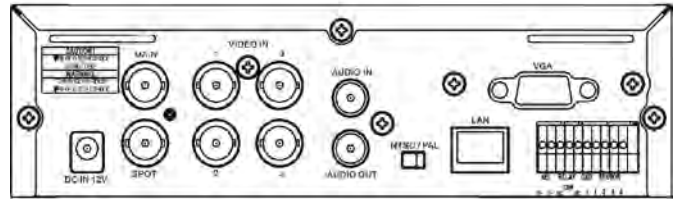
Specifications are subject to change without notice.

### Recommended System Components

Part Number	Description
ML757	17" LCD VGA-only, 1280x1024, black plastic case
ML970W	19" Wide LCD VGA-only, 1440x900, black plastic case
ML2200W	22" Wide LCD Monitor 1680x1050, black plastic case
M170CP2	17" LCD Monitor 1280x1024, narrow bezel, plastic, cctv/pc
M170CP2D	17" LCD Monitor 1280x1024, narrow bezel, plastic, cctv/pc
M190CP2	19" LCD Monitor 1280x1024, narrow bezel, plastic, cctv/pc
M190CP2D	19" LCD Monitor 1280x1024, narrow bezel, plastic, cctv/pc
A-MC1574FN	15" Color Monitor, CRT, 500 TVL, 2-ch AV, SVHS
CONKIT4C	Interface Box, 4-channel Video/Audio/Alarm, RJ11, BNC, RCA, 15VDC (includes video connection cables)
A-XDLBW2	Lockbox, DVR
BB-3	Cable, 3' BNC to BNC, RG59
BB-6	Cable, 6' BNC to BNC, RG59
ACB-6	Cable, 6' RCA to RCA, audio



DYK4500 Front Panel



DYK4500 Rear Panel

### Storage Duration

The DYK4500 is capable of recording up to 120 images per second with 30-ips for each of the four channels. The tables below illustrate a typical recording duration for CIF, 2CIF and 4CIF record resolutions with a single video input, with continuous video recording and no audio with a 500-GB hard disk drive. The actual storage duration will vary depending on the number of cameras recorded, the image quality selected, the recording speed, recording schedule, motion content of the images and the number of stored events.

500-GB HDD	Record Resolution and Quality Mode (CIF, 360 x 240)				
	Lowest	Low	Normal	High	Highest
Record Rate (ips)	days	days	days	days	days
30	494	247	123	82	62
15	988	494	247	163	123
5	2,963	1,481	741	490	370
1	14,815	7,407	3,704	2,448	1,852

500-GB HDD	Record Resolution and Quality Mode (2-CIF, 720 x 240)				
	Lowest	Low	Normal	High	Highest
Record Rate (ips)	days	days	days	days	days
30	247	123	62	41	31
15	494	247	123	82	62
5	1,481	741	370	245	185
1	7,404	3,704	1,852	1,224	926

500-GB HDD	Record Resolution and Quality Mode (4-CIF, 720 x 480)				
	Lowest	Low	Normal	High	Highest
Record Rate (ips)	days	days	days	days	days
30	123	62	31	20	15
15	247	123	62	41	31
5	741	370	185	122	93
1	3,704	1,852	926	612	463

Storage is for one input, divide by number of cameras used.

