PLANET
Networking & Communication

Product Specification

4-Ch H.264 Digital Video Recorder

DVR-461

Change History:

Revision	Date	Author	Change List
Version 1.0	2009/7/3	John Sung	Initial release

Author	John Sung	Editor:	John Sung
Reviewed by:	Jonas Yang	Approved by:	Tom Shih

1. PRODUCT DESCRIPTION

Regarding to the communication of broadband becomes more and more popular, traditional CCTV surveillance system is gradually upgraded to packet switching TCP/IP network. The DVR-461 supports the latest technology - H.264, that can compress the video file to be minimum size. H.264 compress rate is 2 times of MPEG-4 that can increase the recording time in the same HDD size and let the monitor screen have better and smoothly view quality via Internet or local network.

The DVR-461 supports up to 4 cameras. On the other hand, it is designed to be an entry-level of security device. Easily installation and operation, it is suit to the Home/SOHO market. Video data recording, remote surveillance over a secure IP network and viewing/recording/playback at the same time are key features to a full-time security application.

DVR-461 provides triplex DVR selection of IP surveillance products to meet more application demands. The Network DVR can be placed either in LAN or WAN connected with easy-to-remember DDNS feature. With the Plug-N-Watch capability of web browser, a network administrator or system operator can seamlessly complete network deployment in a few minutes.

In various surveillance applications via RS-485 interface, the Network DVR is capable to control most types of PTZ protocols. With integrated alarm I/O, it can detect record and ring a siren. The Network DVR can also do motion detection / schedule recording to complete surveillance plans. Besides control by front panel and remote controller, it is also support operate by USB mouse.

Securing content stored on hard-disk based on digital video recorder systems and providing conditional access to managing stored content; PLANET Digital Video Recorder series offer a perfect solution for both security professionals and business owners who want the unparalleled flexibility and reliability in IP surveillance field.

2. PRODUCT FEATURES

- H.264 compression ideal for saving HDD space
- Real time live display
- Resolution up to D1
- Live display, record, backup, playback and network access at the same time
- Control methods: front panel, USB mouse, IR remote controller, and client viewer
- Intuitive GUI for easy configuration and menu driven operation
- 1 channel audio recording and playback
- 3G phone remote monitor
- Supports 1 SATA HDDs, Max. 1TB
- Pan / Tilt / Zoom camera control
- Data backup: USB devices and network (remote-site)
- Event triggered with email notification: motion detection, alarm, and video loss
- Support AP on your PC end for remote operation
- Multi-language OSD – Arabic / English / French / German / Italian / Japanese / Korean / Polish / Portuguese / Russian / Spanish / Simplified Chinese / Traditional Chinese

3. PRODUCT SPECIFICATIONS

3.1 Main Component

CPU:	333MHz SoC, Grain GM8180SF-BD
SATA Controller:	Silicon Image SiI3512ECTU128
Video Decoder:	TECHWELL TW2835
RAM:	EtronTech EM638325TS-6G (8MB)
	ELPIDA D5116 AGTA-5B-E (64MB)
Flash ROM:	SPANSION S29GL128P11TF101 (16MB)

3.2 Functional Specifications

Video	
Video System	NTSC/ PAL Selectable
Input	4CH BNC
Output	1CH, BNC
SPOT	1CH, BNC
Audio	
Input	1CH, RCA

Output	1CH, RCA
Terminal	
Sensor	4 Inputs / 1 Output
RS-485 Interface	Pan / Tilt / Zoom Camera
Control Interface	USB Mouse, Remote Controller, Front Panel
HDD	SATA Hard Disk x1
Display	
Division	1 / 4
Zoom	2X
OSD	Graphic OSD
Picture-in-Picture	Yes
Recording	
Compression	H.264
Resolution / Frame Rate	720x480@30fps, 720x240@60fps, 360x240@120fps (NTSC) 720x576@25fps, 720x288@50fps, 360x288@100fps (PAL)
Quality	Highest / High / Normal / Low / Lowest
Record Mode	Manual, Schedule, Event (Motion Detection, Sensor, Video Loss)
Motion Detection	User selectable motion detection area for each camera individually, Sensitivity: 5 levels
Pre-Alarm	16 MB
Post-Alarm	16 MB
Video Preservation	Yes
Playback	
Search Mode	Time, Event
Speed	Normal, REW&FF (2x/4x/8x/16x/32x)
Network	
Interface	Web browser, client software, 3G mobile phone
Service	TCP/ IP, SMTP, HTTP, DHCP, DDNS, PPPoE
Backup	
External	USB 2.0 : USB Flash Driver
Network	Client software
Others	
Monitoring	Software Watchdog
Recovery	Auto-Reboot By Watchdog
Firmware Upgrade	USB 2.0 Port
Dimension	188mm (W) x 54mm (H) x209mm (D)
Power Source	DC 12V, 4.16A

3.3 Physical Specifications

Dimensions

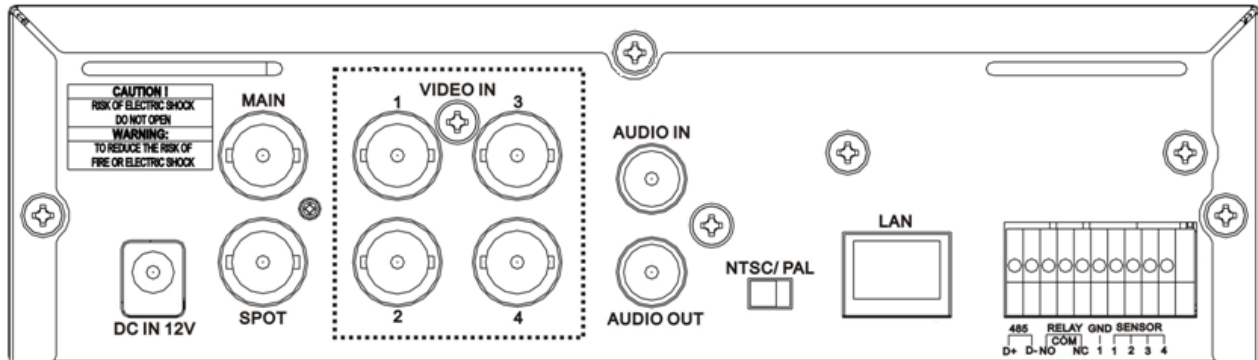188 x 54 x 209 mm (W x H x D)

Weight

1075 g

Front panel
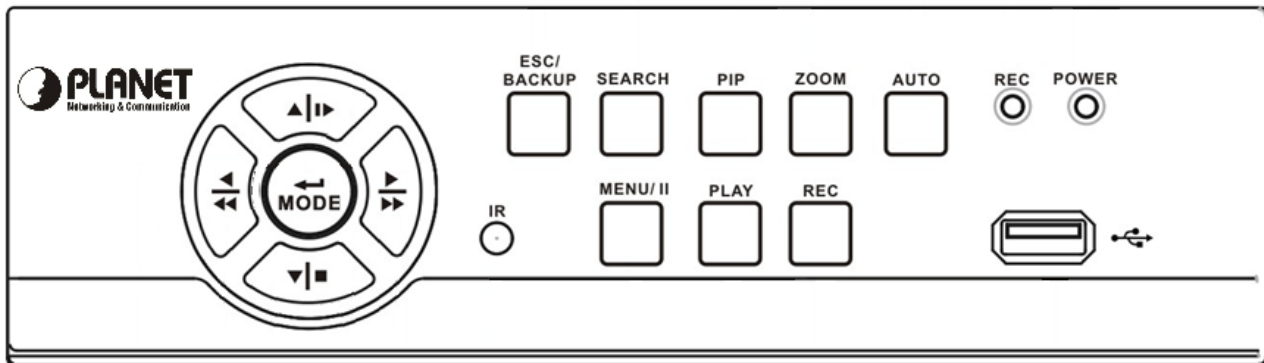
Item	Description
ESC/ BACKUP	Exit various functions and menu screen Enter backup selection menu
SEARCH	Enter search menu screen, use Up/ Down button to navigate Press ENTER to access selected item
PIP	Turn on picture-in-picture format, use Up/ Down button to navigate Press ENTER to access selected item
ZOOM	Enable/ Disable double screen size display. Press ENTER to switch channels.
AUTO	Enable auto mode, to skip channels Press MENU to disable auto mode
LED DISPLAY - REC	DVR Recording.
LED DISPLAY- POWER	DVR Power is on.
USB 2.0	The USB 2.0 port can be used to connect USB, mouse and USB storage device.
REC	Start/ Stop recording.
PLAY	Start playing back.
MENU/ PAUSE (MENU/ ❙❙)	Enter menu mode, use Up/ Down button to navigate menu screen. Press to pause playback
IR SENSOR	Input sensor for the remote control.
RIGHT DIRECTIONAL BUTTON/ FAST (▶▶ /▶)	Right Directional Button. Fast Forward Playback, Speed: 2x, 4x, 8x, 16x, 32x, 64x.
UP DIRECTIONAL BUTTON/ SLOW (▲ / ❙▶)	Up Directional Button. Slow Forward Playback, Speed: 1/2x, 1/4x, 1/8x, 1/16x.
DOWN DIRECTIONAL BUTTON/ STOP (▼ /■)	Down Directional Button. Stop Playback.
LEFT DIRECTIONAL BUTTON/ ◀◀	Left Directional Button. Fast Forward Playback, Speed: 2x, 4x, 8x, 16x, 32x, 64x.

REWIND (◄ /)	
ENTER/ MODE (MODE)	Switch to full screen and quad screen.

Rear panel

Item	Description
MAIN MONITOR	BNC port for the main monitor.
VIDEO IN	BNC input ports for cameras, 4 in total.
AUDIO IN	RCA input port for an audio signal
NTSC／PAL SWITCH	Switch between NTSC and PAL format.
LAN	Network port.
EXTERNAL I/O	EXTERNAL I/O port (*see below for pin definition*)
AUDIO OUT	RCA output port for an audio signal
SPOT MONITOR	BNC port to display full screen image of all installed cameras in sequence.
DC 12V	Socket for a DC 12V input.

3.4 Environmental Specifications

Operating Temperature: 0 ~ 50 degree C
Operating Humidity: 10 ~ 85% non-condensing

Storage Temperature: -10 ~ 70 degree C
Storage Temperature: 5 ~ 90% non-condensing

3.5 Electrical Specifications

Input Voltage: 12V DC, 4.16A

3.6 Regulatory Compliance

FCC, CE

3.7 Basic Packaging

1 x DVR-461
1 x Power Cord
1 x Power Adapter
1 x SATA Cable
4 x HDD Screw
1 x User's Manual CD-ROM
1 x Quick Installation Guide
1 x Remote Controller
2 x Battery

3.8 Packaging Information

Dimension
340 x 239 x 74 mm (W x D x H)

Weight
1.9 kg