KGUARD®
SECURITY

All-IN-One
Surveillance Combo Kit

4/8 Channel Digital Video Recorder with HDMI output
600 TVL High Resolution Cameras

Your Security Our Focus

HD recording resolution quality is better than D1

960H

Output

Full HD 1080P

Kview
Exclusive Software
iOS (iPhone, iPad)
Android
Mac, PC

Why CHOOSE KGUARD
960H All-In-One Combo kit

960H Super resolution to provide you perfect quality images

KGUARD provides a new digital video recorder with 960H recording resolution. 960H recording resolution gives you HD quality videos and images with 600TVL cameras. Its resolution is 34% higher than standard D1 resolution and 500% higher than CIF resolution. You don't need to worry about the video or image becoming unclear or losing important information.

CIF

D1

+34% resolution

960H

All Pictures are Sample Only

All-In-One Quick DIY Setup

All devices and accessories that you need to install a complete surveillance system are included in One Box. No more spending time and money selecting individual devices. Just open the box and install your own surveillance solution to save labor and maintenance cost

Supports HDMI Output

Each 960H Series DVR is equipped with Full HD output which is displayed at 1080p standard, providing you with excellent HD videos and images on HDTV at home or at work.

CIF 352X240 pixels
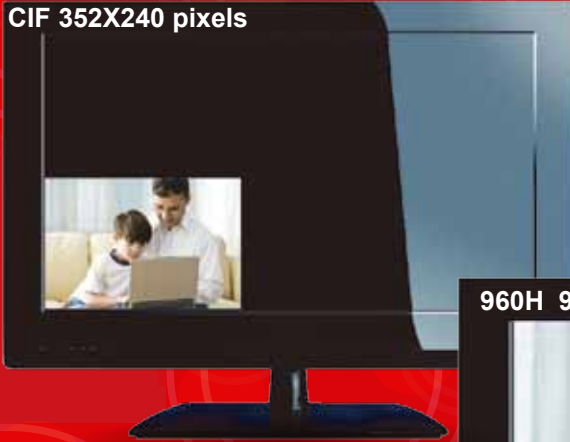
D1 704X480 pixels

960H 960X480 pixels

HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

All Pictures are Sample Only

H.264 H.264 compression latest recording technology

Playback Live view, playback, and event alarm without missing any important information

960H HD recording resolution quality is better than D1

1:00 Time bar Advanced time bar for easy control and playback

Full HD 1080P Full HD output with 1080P display standard for connection to HDTV

Advanced motion schedule can manage email alerts easily

40°
Viewing Angle

Night Vision Mode

50M
40M
30M
20M
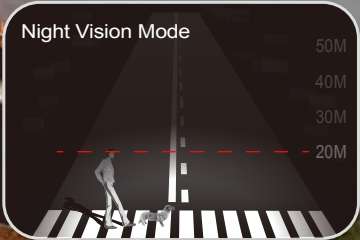
KGUARD Fulcolor to provide excellent colorful images

Night vision up to 20m/65ft in total darkness

6mm fixed lens with 40 degrees viewing angle to monitor particular areas

Waterproof case to protect the camera and survive rainy days

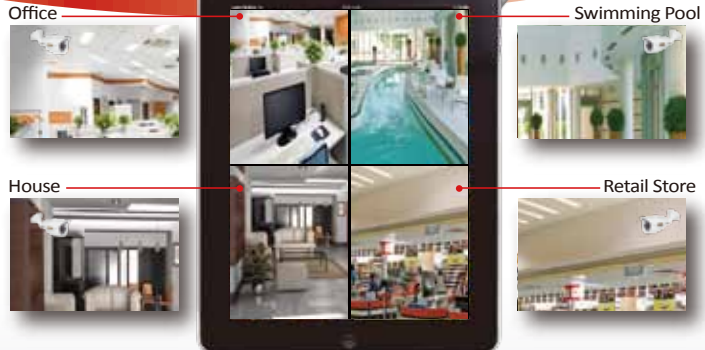**600 TVL high resolution to make video clearer**

Free "Kview" allows remote monitoring on your smartphones and tablets

Free KView App Series for Remote Monitoring Anywhere

Available for mobile devices, Mac and PC computers can download this App to monitor your home, office, children, or pets on your mobile devices while you are traveling on business or on vacation

for Smartphone

for iPhone 4 & up

for Tablet PC

for on Mac OS X

for Windows

Office

Swimming Pool

House

Retail Store

All Pictures are Sample Only

DVR Specification

Model No.	NS421	NS821
No. of Channel	4 Channels	8 Channels
Video		
Video Format	NTSC / PAL	NTSC / PAL
Video Input	4 BNC Inputs	8 BNC Inputs
Video Output	1 VGA, 1 BNC, 1 HDMI Outputs	
Video Output Resolution	"VGA: 800x600, 1024x768, 1280x1024, 1440x900, 1920x1080 HDMI: 1080p"	"VGA: 800x600, 1024x768, 1280x1024, 1440x900, 1920x1080 HDMI: 1080p"
Audio		
Audio Input	2 RCA Inputs	2 RCA Inputs
Audio Output	1 RCA Output	1 RCA Output
Recording		
Video Compression	H.264	
Recording Frame Rate		
D1-NTSC	120fps@CIF (360×240) 120fps@HD1 (720x240) 120fps@D1 (720x480)	240fps@CIF (360×240) 240fps@HD1 (720x240) 240fps@D1 (720x480)
D1-PAL	100fps@CIF (360×288) 100fps@HD1 (720x288) 100fps@D1 (720x576)	200fps@CIF (360×288) 200fps@HD1 (720x288) 200fps@D1 (720x576)
960H-NTSC	120fps@WCIF (480×240) 120fps@WHD1 (960×240) 120fps@WD1 (960×480)	240fps@WCIF (480×240) 88fps@WHD1 (960×240) 88fps@WD1 (960×480)
960H-PAL	100fps@WCIF (480×288) 100fps@WHD1 (960×288) 100fps@WD1 (960×576)	200fps@WCIF (480×288) 72fps@WHD1 (960×288) 72fps@WD1 (960×576)
Recording Mode	Always / Manual / Motion Detection / Schedule	Always / Manual / Motion Detection / Schedule
HDD Interface	1 SATA	1 SATA
HDD Support	Up to 2TB	Up to 2TB
Network		
Network Interface	RJ45, 10M/100M	RJ45, 10M/100M
Network Type	DHCP, PPPoE, Static IP	DHCP, PPPoE, Static IP
Playback		
Local Playback	Max. 4 Channels Simultaneously	Max. 8 Channels Simultaneously
Playback Search	Date & Time / Event List / Time Bar	Date & Time / Event List / Time Bar
Playback Mode	Play, Fast Forward, Fast Rewind, Slow Motion, Zoom	Play, Fast Forward, Fast Rewind, Slow Motion, Zoom
General		
PTZ Control	RS485 Built-In, supports PELCO-P & PELCO-D	RS485 Built-In, supports PELCO-P & PELCO-D
Backup Method	HDD, USB, Network	HDD, USB, Network
Power Supply	12V/2A	12V/2A
Operating Temperature (W/O HDD)	-10℃ to 50℃ (14°F to 122°F)	-10℃ to 50℃ (14°F to 122°F)
Storage Temperature	-20℃ to 70℃ (-4°F to 158°F)	-20℃ to 70℃ (-4°F to 158°F)
Dimension (WxDxH) in mm	305x230x55	305x230x55

Camera Specification

Video

Image Sensor	KGUARD Fulcolor
Pixels	728(H) x 560(V)
Electronics Shutter	NTSC 1/60-1/100,000(sec)
	PAL 1/50-1/100,000(sec)
Horizontal Resolution	600 TVL
Lens	6mm Fixed
Viewing Angle	40 Degrees
Video Output	1.0VP-P, 75Ω
S/N Ratio	More than 48dB（AGC OFF）
Day / Night Mode	Color during day / switches to B&W at night
Minimum Illumination	While Infrared LED ON "0" lux
Gain Control	Auto
Backlight Compensation	Auto

Night Vision

Night Vision Distance	20m / 65ft
Illumination	Infrared LED
Infra-Red Wavelength	850nm
Infra-Red LED Life	10,000hrs

General

Indoor / Outdoor	Weatherproof (Both)
Operating Temperature	-10°C~50°C (14°F~122°F)
Storage Temperature	-20°C~70°C (-4°F~158°F)
Body Construction	Aluminum
Dimensions-Camera with Stand (WxDxH)	182x73x74mm / 7.2x2.9x2.9"
Weight - Camera with Stand	260g / 0.57lbs

Model Options:

✓ **NS421-4HW227D**

✓ **NS821-4HW227D**

"Thieves have nowhere to hide"

What's in the box?

Standalone DVR

Camera

Remote Control

USB Mouse

Software CD

Slim Cable (18m / 60ft)

4 Way Split Cable

Power Adapter (12V)

HDMI Cable

Ethernet Cable

Quick Installation Guide

Warranty Card

Warranty

1

comes with one year warranty & technical support

"Your security, our focus"
All products come with a
one-year warranty for our
customers.
We have our experienced
technical support team to answer
any questions for more information, please visit
kGUARD's website:www.kguardsecurity.com

![KGUARD SECURITY logo](www.kguardsecurity.com)

KGUARD INFORMATION CO., LTD. (Headquarters)
Address: 4F, No.113, Jian 2nd Rd., Jhonghe Dist., New Taipei City 23585 ,Taiwan (R.O.C.)
TEL: +886-2-8228-6080
FAX: +886-2-8221-6857
Technical Support: support@kguardsecurity.com
Sales Inquiry: sales@kguardsecurity.com

Authorized KGUARD Security Distributor