

DVR CAPTURE CARD

DVR Capture Card · Selection Guide

The Kguard digital surveillance kits range from KG901 entry level model to KG3482 high end 480 display model. Apart from the recording function, all surveillance kits are able to support remote control via IE, PTZ control, alarm notification, image saving and backup functions. Now! Vertically integrate our CMS2000 with Kguard digital surveillance kits to magnify the application capacity of your surveillance system.

Models	KG-901	KG-902	KG-904	KG-914	KG-908
					
Interface	PCI	PCI	PCI	PCI-104	PCI-E
ADC	9bit	9bit	9bit	9bit	9bit
TV out	-	-	-	-	-
Display frame rate	PAL	25	50	100	200
	NTSC	30	60	120	240
Record frame rate	PAL	25	50	100	200
	NTSC	30	60	120	240
I/O(Optional)	Digital Input	8	8	4	16
	Digital Output	6	6	3	12
Video Resolution	D1 , Half D1 ,CIF Resolution				
Video Channels	4/8/12/16	4/8	4/8/12/16	4/8/16	8/16
System requirement	Celeron 2.0 GHz or above				
RAM	256	256	512	512	512
Hard Disk	80G	80G	80G	80G	80G
Audio	1ch	2ch	4ch	4ch	8ch
Support looping card	V	V	V	V	V
Support watchdog	V	V	V	V	V
Compression format	MPEG 4	MPEG 4	MPEG 4	MPEG 4	MPEG 4
Multi-card support	4	4	4	N/A	2

Models	KG-2240	KG-2480	KG-3240	KG-3480
				
Interface	PCI	PCI	PCI	PCI
ADC	10bit	10bit	10bit	10bit
TV out	V	V	—	—
Display frame rate	PAL	400	200	400
	NTSC	480	240	480
Record frame rate	PAL	200	200	400
	NTSC	240	240	480
I/O(Optional)	Digital Input	4	8	8
	Digital Output	3	8	8
Video Resolution	D1 , Half D1 ,CIF Resolution			
Video Channels	16	16	8	16
System requirement	P4 3.0	P4 3.0	P4 3.0	P4 3.0
RAM	1G	1G	1G	1G
Hard Disk	80G	80G	80G	80G
Audio	16ch	16ch	8ch	16ch
Support looping card	V	V	V	V
Support watchdog	V	V	—	—
Compression format	MPEG 4	MPEG 4	H.264	H.264

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KG-3480

H.264 Hardware Compression Card

Specification

Video Input Type	D-Type
Video Resolution	CIF, Half D1, D1 (video input will down to 8 channels)
Display Rate	480fps/sec(NTSC) ; 400 fps/sec (PAL)
Audio Input	16 Channels
Recording Speed	480fps (NTSC) ; 400fps (PAL)
DI / DO	8/8 (optional DIO module)
Video Output Mode	1,4,6,7,8,9,10,13,16 Separated Screen Mode
Max Recording Rate	960/800 fps (NTSC/PAL) with 2 cards
Video Inputs	16 Channels
Compression Format	H.264 (Hardware Compression)
Max Card Stack	2 cards in a computer system

Features & Benefits

The KG-3480 is the best choice for the heavyweights of security. Each card support max performance up to 16ch D1 recording at 240/200fps or Half D1 real time recording by latest H.264 Hardware compression. Support up to 32ch audio & video in one Embedded DVR with 2 card stack.

Ordering Information

Part NO.	Description
KG-3480	Industrial DVR ; 16CHs Video / Audio ; Recording: 480fps(NTSC)400fps(PAL)
KG-3240	Industrial DVR ; 8CHs Video / Audio ; Recording: 240fps(NTSC)200fps(PAL)



KG-2480

SDK available

System Requirement

OS Supported	Windows XP / Vista
CPU	Pentium 4-3.0GHz with Hyper-threading or above
RAM	2 x 512 MB dual channel
HDD	250 GB or above (recommended)
VGA	ATI Radeon 9550 or above NVIDIA 6200 or above
DirectX	9.0c or above

Note: Minimum System Requirements

Specification

Video Inputs	16 Channels
Record Resolution	D1 ,Half D1 ,CIF Resolution
Display Speed	480fps /sec (NTSC) ; 400 fps/sec (PAL)
Audio Input	16 Channels
Video Output Interface	RCA(TV)
Recording Speed	480fps (NTSC) ;400fps (PAL)
Sensor Input (Optional)	Support DIO Card 4 Channels In
Relay Output (Optional)	Support DIO Card 3 Channels Out
Video Output Mode	1,4,6,7,8,9,10,13,16 Separated screen mode
Watch-Dog function	Yes
TV Out	Full Screen, Current Video, Model Screen : RCA(TV)
TV Out OSD	Support

Features & Benefits

The KG2000 series capture card is ideal for most commercial and industrial security project. The TV -OUT function allow user to view the main video in another site. Real time live display function provide customer best video quality on monitor.

Ordering Information

Part NO.	Description
KG-2480	Real-Time Preview; 16CHs Video / Audio ; Recording: 480fps(NTSC)400fps(PAL)
KG-2240	Real-Time Preview ; 16CHs Video / Audio ; Recording: 240fps(NTSC)200fps(PAL)
KG-2120	Real-Time Preview; 16CHs Video/ Audio ; Recording: 120fps(NTSC)100fps(PAL)

System Requirement

OS Support	Windows 2000 / Windows XP / Windows Server 2003 / Vista
Motherboard	Pentium 4-3.0 GHz, 800 MHz FSB (minimum)
CPU	Intel Chip, Intel Chipset recommended
VGA	ATI Radeon 9550 or above (recommended) ; GeForce FX-5200 64MB above
RAM	1G dual DDR400 SDRAM (minimum)
Ethernet Card	10/100M Ethernet card
HDD	250 GB or above (recommended)
Power Supply	One HDD --> 250W
Two to Three HDDs	300W
Three to Four HDDs	350W
Four to Five HDDs	400W
Five or more	460W
DirectX	9.0 or above

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KG-904

MPEG4 PCI Card & Software

Features & Benefits

The KG-900 series comes with various kind of option from 4ch to 16ch video recording at different recording rate. It's a good economic selection for project with budget concern. And the user can still be benefit from full function of Kguard powerful DVR solution (DVR2008)

Specification

Video Input	4,8,12,16 cams
Audio Input	4 Channels
Recording Display Rate	120 fps/sec (NTSC) ; 100 fps/sec (PAL)
Video Resolution	D1 ,Half D1 ,CIF Resolution
Watch Dog(Hardware)	Support
Multi-Card Stack	Support

System Requirement

OS Support	Windows 2000 / Windows XP / Vista
Motherboard	Intel Chip recommended
CPU	Celeron 2.0 GHz or above
VGA	ATI Radeon 9200 64MB or Nvidia, GeForce FX-5200 64MB above.
RAM	256MB or above
Ethernet Card	10/100M Ethernet card
HDD	80GB HDD or above for long time recording is recommended
Power Supply	One HDD --> 250W
Two to Three HDD	300W
Three to Four HDD	350W
Four to Five HDD	400W
Five or more	460W
DirectX	Minimal Microsoft DirectX 9.0c or higher version.

Ordering Information

Part NO.	Description
KG-904A	4CHs Video / 4CHs Audio ; Recording: 120fps(NTSC)100fps(PAL)
KG-904B	8CHs Video / 4CHs Audio ; Recording: 120fps(NTSC)100fps(PAL)
KG-904C	12CHs Video / 4CHs Audio ; Recording: 120fps(NTSC)100fps(PAL)
KG-904D	16CHs Video / 4CHs Audio ; Recording: 120fps(NTSC)100fps(PAL)
KG-902A	4CHs Video / 2CHs Audio ; Recording: 60fps(NTSC) 50fps(PAL)
KG-902B	8CHs Video / 2CHs Audio ; Recording: 60fps(NTSC) 50fps(PAL)
KG-901A	4CHs Video / 1CHs Audio ; Recording: 30fps(NTSC) 25fps(PAL)
KG-901B	8CHs Video / 1CHs Audio ; Recording: 30fps(NTSC) 25fps(PAL)
KG-901C	12CHs Video / 1CHs Audio ; Recording: 30fps(NTSC) 25fps(PAL)
KG-901D	16CHs Video / 1CHs Audio ; Recording: 30fps(NTSC) 25fps(PAL)



KG-908

PCI-Express

MPEG4 PCI Card & Software

Features & Benefits

The KG-908 is a new designed card with PCI-E interface ideal to work in new motherboard that is coming with only PCI-E slot. And it's also a best choice for 8ch real time recording at reasonable price.

Ordering Information

Part NO.	Description
KG-908B	8CHs Video / 8CHs Audio ; Recording: 240fps(NTSC)200fps(PAL)
KG-904D	16CHs Video / 16CHs Audio ; Recording: 240fps(NTSC)200fps(PAL)

Specification

Video input	8 / 16 chs
Audio input	8 chs
Recording/display rate	240fps/sec (NTSC) ; 200fps/sec (PAL)
Resolution	D1 ,Half D1 ,CIF Resolution
Watch dog	Support
Interface	PCI-Express

System Requirement

OS Support	Windows 2000 / Windows XP / Windows Server 2003 / Vista
Motherboard	Pentium 4-2.4 GHz, 800 MHz FSB (minimum)
CPU	Intel Chip, Intel Chipset recommended
VGA	ATI Radeon 9550 or above (recommended) ; GeForce FX-5200 64MB above
RAM	512MB DDR400 SDRAM (minimum)
Ethernet Card	10/100M Ethernet card
HDD	250 GB or above (recommended)
Power Supply	One HDD --> 250W
Two to Three HDDs	300W
Three to Four HDDs	350W
Four to Five HDDs	400W
Five or more	460W
DirectX	9.0 or above

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KG-914

Mobile DVR Used
MPEG4 PCI -104 Card

■ Features & Benefits

The KG-914 card is a special design for PCI-104 interface that is for the Industrial PC solution. The PCI-104 form factor is also ideal for anti-vibration requirement.

■ Ordering Information

Part NO.	Description
KG-914A	4CHs Video / 4CHs Audio ; Recording: 120fps(NTSC) / 100fps(PAL)

■ Specification

Video Inputs	4 / 8 / 16 Ports
Audio Inputs	4 Ports
Resolution	D1 ,Half D1 ,CIF Resolution
Compression Format	Mpeg4
Recording Display Frame Rate	120fps/sec (NTSC) : 100fps/sec (PAL)
Digital I/O Supported	4 In & 3 out
Watch Dog (Hardware)	Support
IR Remote Support	Yes
Dimension	Main Board: 95.89 mm x 90.17 mm / Daughter Board: 100 mm x 30 mm
PCI Signal Switch	IDSEL/REQ/GNT/INT signal switch with On Board Jumper
Power Consumption	6.5W

■ System Requirement

OS Support	Windows 2000 / Windows XP / Vista
Motherboard	Intel Chip, Intel Chipset recommended
CPU	Intel Pentium IV 2.0GHz or above
RAM	512MB or above
Ethernet Card	10/100M Ethernet card
HDD	80GB HDD or above for long time recording is recommended
Power Supply	
One HDD	250W
Two to Three HDD	300W
Three to Four HDD	350W
Four to Five HDD	400W
Five or more	460W
DirectX	Minimal Microsoft DirectX 9.0c or higher version.
104 Interface	PCI-104



KG-DIO

The KG DIO card is a digital I/O board integrated with 4 relay inputs, 3 alarm outputs and a RS485 to RS232(com Port) Converter.

■ Specification

Communication	RS485, 1200~19200 bps		
Environment Condition	0~50 C, 5%~95%(non-condensing)		
Board Size	95 mm x 80 mm		
Input		Output	
Ports	4	Relay Output	3
Input Signal	5-12VDC	Relay Status	Normal Open
High State	5V	Relay Capacitance	6A/30V DC
Low State	0V	Relay On/Off Time	6A 125V/250V AC 0ms/5ms



KG-Looping Card

The KGuard Looping Card is designed to co-work with KGuard DVR Capture Cards and capable of providing 16 channel loop through video output with the same video.

■ Specification

Input	Internal Box Header 2x20 pin (Channel 1-16 looping from DVR Card)
Output	· External D-Sub15(Channel 1-8) · External D-Sub15(Channel 9-16) · Internal Box Header 2x20 pin (Channel 1-16)
Power Consumption	Power Consumption: 12V / 0.6A (powered from PC mini power cable)
Board Size	Board Size: 93 mm x 144 mm