

GV-1120A, GV-1240A, GV-1480A

GV-Combo A Card (GV-1120A, GV-1240A and GV-1480A) are the three-in-one combo cards, providing one single card solution for 16 video / audio recording, real-time display and TV-out display.

Minimum System Requirements

	32-bit	Windows XP / Windows Vista / Windows 7 / Windows Server 2008					
os	64-bit	Windows 7 / Windows Server 2008					
		GV-1120A	Pentium 4, 3.0 GHz with Hyper Threading				
		GV-1120A	Turbo Mode: Pentium 4, 3.0 GHz, Dual Core				
		GV-1120A x 2	Pentium 4, 3.0 GHz, Dual Core				
		0 V-1120A X 2	Turbo Mode: Core 2 Quad, 2.4 GHz				
		GV-1240A	Pentium 4, 3.0 GHz, Dual Core				
CPU			Turbo Mode: Core 2 Duo, 3.0 GHz				
CPU		GV-1240A x 2	Core 2 Duo, 2.53 GHz				
		GV-1240A X 2	Turbo Mode: Core 2 Quad, 2.8 GHz				
		GV-1480A	Core 2 Duo, 3.0 GHz				
			Turbo Mode: Core 2 Quad, 2.4 GHz				
		GV-1480A x 2	Core 2 Quad, 2.4 GHz				
			Turbo Mode: Core i7-920, 2.66 GHz				
			Windows XP	2 x 512 MB Dual Channels			
RAM	l	GV-1120A / 1240A / 1480A	Windows Vista / 7 / Server 2008	2 x 1 GB Dual Channels			
		GV-1120A x 2 / 1240A x 2 / 1480A x 2	2 x 1 GB Dual Channels				
		GV-1120A	80 GB / Turbo Mode: 120 GB				
	•	GV-1120 A x 2	160 GB / Turbo Mode: 250 GB				
HDD		GV-1240A	120 GB / Turbo Mode: 160 GB				
		GV-1240A x 2	250 GB / Turbo Mode: 320 GB				
		GV-1480A	250 GB / Turbo Mode: 320 GB				
		GV-1480A x 2 500 GB / Turbo Mode: 750 GB					
Grap Card		AGP or PCI-Express, 800 x 600 (1280 x 1024 recommended), 32-bit color					
Direc	ctX	9.0c					



Packing List (D-Type)

- 1. GV-Combo A Card x 1
- 2. Audio Extension Card x 1
- 3. 1-8 D-Type Video Cable x 1
- 4. 9-16 D-Type Video Cable x 1
- 5. 1-8 D-Type Audio Cable x 1

- 6. 9-16 D-Type Audio Cable x 1
- 7. Internal Power Y Cable x 1
- 8. Hardware Watchdog Jumper Wire x 1
- 9. Software DVD x 1
- 10. Surveillance System Quick Start Guide x 1

Packing List (DVI-Type)

- 1. GV-Combo A Card x 1
- 2. 1-8 DVI-Type Video plus TV Out Cable x 1
- 3. 9-16 DVI-Type Video Cable x 1
- 4. 1-8 DVI-Type Audio Cable x 1
- 5. 9-16 DVI-Type Audio Cable x 1

- 6. Internal Power Y Cable x 1
- 7. Hardware Watchdog Jumper Wire x 1
- 8. Software DVD x 1
- 9. Surveillance System Quick Start Guide x 1

November 28, 2011 2 November 28, 2011



Connecting One GV-Combo A Card (D-Type)

- Plug the Audio Extension Card in the assigned connectors on the GV-Combo A Card.
- Connect D-Type video and audio cables to the GV-Combo A Card and Audio Extension Card respectively.
- Connect the supplied Hardware Watchdog Jump Wire (Figure 5).
- Connect the PC's internal power supply to the GV-Combo A Card.
- Connect the TV monitor to the GV-Combo A Card if needed.

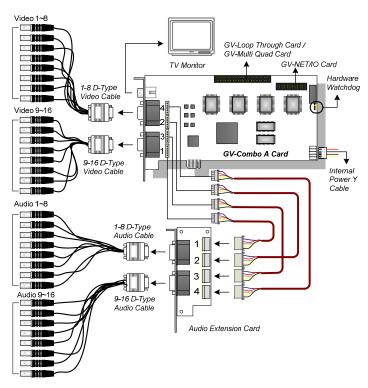


Figure 1

Note: The Card only works when it connects to PC's power supply using the supplied Internal Power Y Cable.



Connecting One GV-Combo A Card (DVI-Type)

- Connect the DVI video and audio cables to the GV-Combo A Card.
- Connect the supplied Hardware Watchdog Jump Wire (Figure 5).
- Connect the PC's internal power supply to the GV-Combo A Card.
- Connect the DVI TV Out cable to the TV monitor if needed.

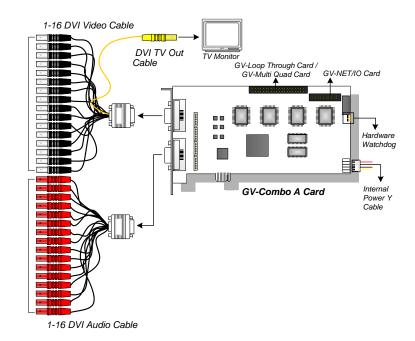


Figure 2

Note: The Card only works when it connects to PC's power supply using the supplied Internal Power Y Cable.

November 28, 2011 4 November 28, 2011



Connecting GV-NET/IO Card to GV-Combo A Card

Connect the GV-NET/IO Card to the 20-pin GV-NET/IO port on the GV-Combo A Card. Some GV-Combo A Cards are built in two 20-pin ports. Ensure to connect the GV-NET/IO Card to the correct port as illustrated below.

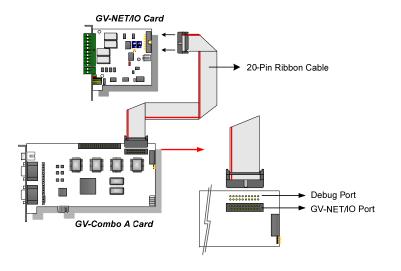


Figure 3

Note: If the GV-NET/IO Card is connected to the Debug port, it may lead to the GV-NET/IO Card to be damaged, or the GV-Combo A Card to burn out, causing Video Lost or an error message of "can't find keypro" to pop up.



Connecting Two GV-Combo A Cards

You can install two GV-Combo A Cards of the same model for up to 32 channels. Master Card is the card with 1-16 channels and Slave Card is that with 17-32 channels. Normally, the card attached to the lower PCI-E slot number will act as Master, and the card attached to the higher PCI-E slot number will act as Slave.

- TV Output Connection: The RCA connector in the Master Card is for displaying 1-16 channels, and the one in the Slave Card is for displaying 17-32 channels.
- Hardware Watchdog Connection: Connect the supplied Hardware Watchdog Jump Wire to the Master Card only (Figure 5).
- Accessory Card Connections:
 - ⊙ GV-NET/IO Card: Connect the card only to the Master Card.
- O GV-Loop Through Card: Connect the card for each video capture card.
- ⊙ GV-Multi Quad Card: Only connect one card to any of two video capture cards.

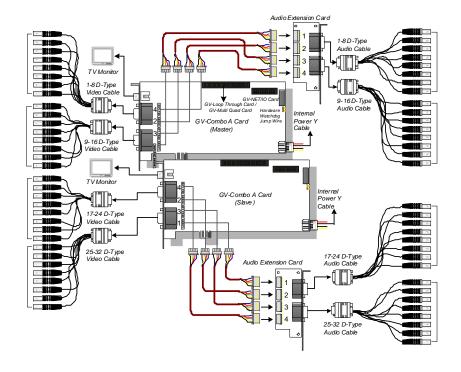


Figure 4

November 28, 2011 5 November 28, 2011



Connecting Hardware Watchdog

Insert the Hardware Watchdog Jumper Wire to the 2-pin connectors on the Card and on the motherboard as illustrated below. Ensure the connection is correct; otherwise the hardware watchdog will not work.

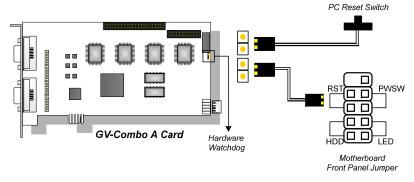


Figure 5



Installing Drivers

After installing the GV-Combo A Card in the computer, insert the software DVD. The DVD will run automatically and an installation window will pop up. Select Install or Remove GeoVision GV-Series Driver, and select Install or Remove GeoVision GV-Series Card Drivers to install card drivers.

To verify the drivers are installed correctly, go to Windows Device Manager and see if their entries are listed. The image below is an example of installing one GV-Combo A card.

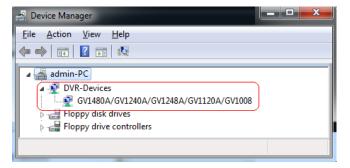


Figure 6

Expand the **DVR-Devices** field, you can see:

Card Model		Entry		
GV-1120A	Single-card mode	GV1480A/GV1240A/GV1248A/GV1120A/GV1008		
GV-1120A	Two-card mode	GV1480A/GV1240A/GV1248A/GV1120A/GV1008 GV1480A/GV1240A/GV1248A/GV1120A/GV1008		
GV-1240A	Single-card mode	GV1480A/GV1240A/GV1248A/GV1120A/GV1008		
GV-1240A	Two-card mode	GV1480A/GV1240A/GV1248A/GV1120A/GV1008 GV1480A/GV1240A/GV1248A/GV1120A/GV1008		
GV-1480A	Single-card mode	GV1480A/GV1240A/GV1248A/GV1120A/GV1008		
GV-1480A	Two-card mode	GV1480A/GV1240A/GV1248A/GV1120A/GV1008 GV1480A/GV1240A/GV1248A/GV1120A/GV1008		

November 28, 2011 7 November 28, 2011



Specifications

			GV-1120A	GV-1240A	GV-1480A	
Interface Type			PCI-E (x1)			
Input Type			D-Type, DVI			
Video Input			8, 12, 16 Cams	8, 16 Cams	16 Cams	
Audio Input			8, 12, 16 Channels	8, 16 Channels	16 Channels	
TV Output			D-Type: RCA Connector DVI: BNC Connector			
	CIF	NTSC	120 fps	240 fps	480 fps	
	CIF	PAL	100 fps	200 fps	400 fps	
	D4	NTSC	80 fps	120 fps	240 fps	
Recording	D1	PAL	72 fps	100 fps	200 fps	
Rate	Turbo	NTSC	120 fps	240 fps	416 fps	
	VGA	PAL	100 fps	200 fps	400 fps	
	Turbo	NTSC	120 fps	240 fps	352 fps	
	D1	PAL	100 fps	200 fps	320 fps	
	OIE	NTSC	480 fps			
Display	CIF	PAL	400 fps			
Rate		NTSC	480 fps			
	D1	PAL	400 fps			
NTSC		704 x 480, 704 x 480 De-interlace, 640 x 480, 640 x 480 De-interlace, 352 x 240, 320 x 240				
Video Resol	ution	PAL	704 x 576, 704 x 576 De-interlace, 640 x 480, 640 x 480 De-interlace, 352 x 288, 320 x 240			
Video Comp	ression	Format	Geo MPEG4, Geo H264			
Audio Comp	ression	Format	AAC (16 kHz / 16 bit)			
GV-Multi Quad Card Support			Yes			
GV-Loop Through Card Support			Yes			
GV-NET/IO Card Support			Yes			
Dimensions	D-Type		179 x 112 mm / 7.04 x 4.41 in			
ninensions	DVI-Type					
Note: Turbo Mode is only applied in VGA and D1 resolutions.						



			OV 4400A 0	01/40404 0	OV 4400 A 0	
			GV-1120A x 2	GV-1240A x 2	GV-1480A x 2	
Interface Type			PCI-E (x1) x 2			
Input Type			D-Type, DVI			
Video Input			16, 20, 24, 28, 32 Cams	16, 24, 32 Cams	32 Cams	
Audio Input			16, 20, 24, 28, 32 Channels	16, 24, 32 Channels	32 Channels	
TV Output			D-Type: RCA Connector DVI: BNC Connector			
	CIF	NTSC	240 fps	480 fps	960 fps	
	CIF	PAL	200 fps	400 fps	800 fps	
	D4	NTSC	160 fps	240 fps	480 fps	
Recording	D1	PAL	144 fps	200 fps	400 fps	
Rate	Turbo	NTSC	240 fps	480 fps	832 fps	
	VGA	PAL	200 fps	400 fps	800 fps	
	Turbo	NTSC	240 fps	480 fps	704 fps	
	D1	PAL	200 fps	400 fps	640 fps	
	0.5	NTSC	960 fps			
Display	CIF	PAL	800 fps			
Rate		NTSC	960 fps			
	D1	PAL	800 fps			
Video Resolution PAL		704 x 480, 704 x 480 De-interlace, 640 x 480, 640 x 480 De-interlace, 352 x 240, 320 x 240				
		PAL	704 x 576, 704 x 576 De-interlace, 640 x 480, 640 x 480 De-interlace, 352 x 288, 320 x 240			
Video Comp	oression	Format	Geo MPEG4, Geo H264			
Audio Compression Format			AAC (16 kHz / 16 bit)			
GV-Multi Quad Card Support			Yes			
GV-Loop Through Card Support			Yes			
GV-NET/IO Card Support			Yes			
D-Type		pe	- 179 x 112 mm / 7.04 x 4.41 in			
Dimensions	s DVI-Type					
Note: Turbo Mode is only applied in VGA and D1 resolutions.						

November 28, 2011 9 10 November 28, 2011