1.2 System Requirements for 32 Channels

The following is the minimum and recommend system requirements to build a 32-channel DVR.

- **GV-NVR**

CPU	Core 2 Quad, 2.4 GHz
RAM	2 × 1 GB Dual Channels
VGA	ATI X700 256MB
HDD	4
Important: For GV-NVR with 32 channels of megapixel IP video sources, the size of transmitted data may be quite large and reach beyond the processing speed limit of hard drive. For smooth processing, it is highly recommended to use **4** hard drives of Seagate SV35.3 Series (certified by GeoVision) or other brands. And assign the maximum of **8** IP camera recordings to a single hard drive.	

Note: For more details, see *GV-NVR Quick Start Guide*.

- **Two Cards**

<table>
<tr><th></th><th>CPU</th><th>RAM</th><th>VGA</th></tr>
<tr><td>GV-600 x 2</td><td>Pentium 4, 2.6 GHz with HT</td><td rowspan="2">2 x 512 MB
Dual Channels</td><td rowspan="2">ATI Radeon 9550 /
NVIDIA 6200</td></tr>
<tr><td>GV-650 x 2</td><td>Pentium 4, 2.8 GHz with HT</td></tr>
<tr><td>GV-800 x 2</td><td rowspan="2">Pentium 4, 3.0 GHz, Dual Core</td><td rowspan="5">2 x 1 GB
Dual Channels</td><td rowspan="5">ATI Radeon X550 PCI-E /
NVIDIA 6200 PCI-E</td></tr>
<tr><td>GV-1120 x 2</td></tr>
<tr><td>GV-1240 x 2</td><td rowspan="2">Core 2 Duo, 2.53 GHz</td></tr>
<tr><td>GV-1480 x 2</td></tr>
<tr><td>GV-1120A x 2</td><td>Pentium 4, 3.0 GHz, Dual Core</td></tr>
<tr><td>GV-1240A x 2</td><td>Core 2 Duo, 2.53 GHz</td><td colspan="2"></td></tr>
<tr><td>GV-1480A x 2</td><td>Core 2 Quad, 2.4 GHz</td><td colspan="2"></td></tr>
</table>

Note: For more details, see *Installation Guide.*

1.3 Rules to Use Two Cards

GV video capture cards have two interface types: PCI and PCI Express (PCI-E). When you install two video capture cards, ensure they are installed in the right slots as instructed in the following tables.

Important:

1. The two-card mode only supports two video capture cards of the same model.
2. It is possible to implement the two video capture cards of different channels. For example, GV-650 Card (12 channels) + GV-650 Card (16 channels) = 28 channels.

- **GV-600, GV-650, GV-800**

<table>
<tr><th>Card Combination</th><th>V3.20 and later</th><th colspan="2">V4.20 and later</th></tr>
<tr><td>V3.20 and later</td><td>×</td><td colspan="2">×</td></tr>
<tr><td rowspan="6">V4.20 and later</td><td rowspan="6">×</td><td>GV-600 (V4)</td><td>PCI x 2</td></tr>
<tr><td rowspan="3">GV-650 (V4)</td><td>PCI x 2</td></tr>
<tr><td>PCI-E x 2</td></tr>
<tr><td>PCI x 1+ PCI-E x 1</td></tr>
<tr><td rowspan="2">GV-800 (V4)</td><td>PCI-E x 2</td></tr>
<tr><td>PCI x 1+ PCI-E x 1</td></tr>
</table>

1. The V3.20 (and later) Cards or the combination of V3.20 and V4.20 (and later) Cards do not support two-card mode.
2. For GV-600 (V4) cards, it is required to use two PCI slots.
3. For GV-650 (V4) cards, you can use two PCI slots, two PCI Express slots, or the combination of PCI and PCI Express slots.
4. For GV-800 (V4) cards, you can use two PCI Express slots, or the combination of PCI and PCI Express slots.

Note: GV-800_4A (4 Ports) Card does not support two cards.

- **GV-1120, GV-1240, GV-1480**

Card Combination	V1.02/V2.00 and later	Combo A Cards (GV-1120A/GV-1240A/GV-1480A)
V1.02/V2.00 and later	PCI-E x 2	×
	PCI x 1+ PCI-E x 1	
Combo A Cards (GV-1120A/GV-1240A/GV-1480A)	×	PCI-E x 2

1. V1.02/V2.00 (and later) and Combo A Cards all support two-card mode, but the combination of V1.02/V2.00 (and later) and Combo A Cards does not support two-card mode.
2. When you install two V1.02/V2.00 (and later) Cards, it is required to use two PCI Express slots or the combination of PCI and PCI Express slots.
3. When you install two Combo A Cards, it is required to use only two PCI Express slots.