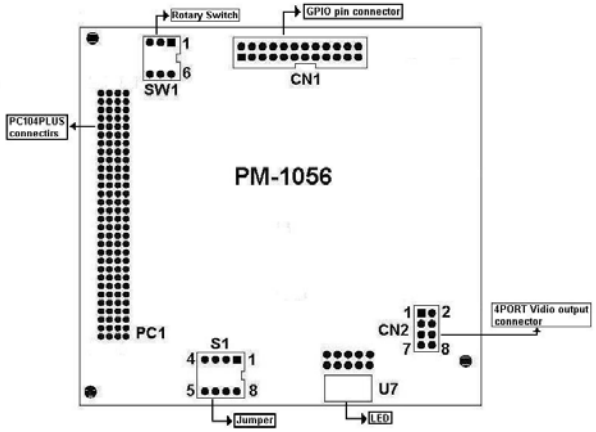
PM-1056-4PG/4PGB
PM-1056-4P/PM-1056-4PB w/o GPIO (CN1)



The driver program and operation of PM-1056-4P/4PB/4PG/4PGB and IVC-100/G are the same. PM-1056-4P/4PB/4PG/4PGB is the interface of PCI/104.

PCI Signal Grouping Selection

- SW1 (Rotary Switch): Group selection of PCI configuration for PCI/104 modules

Group	SW1 Position
0	0, 4
1	1, 5
2	2, 6
3	3, 7

- Signal Grouping Description

Group	PCICLK	ID Address	INT0	INT1	REQ	GNT
0	PCICLK0	IDSEL0	INTA	INTB	REQ0	GNT0
1	PCICLK1	IDSEL1	INTB	INTC	REQ1	GNT1
2	PCICLK2	IDSEL2	INTC	INTD	REQ2	GNT2
3	PCICLK3	IDSEL3	INTD	INTA	REQ3*	GNT3*

**Note: REQ3# and GNT#3 are not signals defined in PC/104-PLUS.*
Do not use MODE3 if your card does not have these signals on PC/104-PLUS connector.

IVC-100/200-RS
PM-1056-4P-RS
Quick Installation Guide
Version 2.1

May. 26, 2011

Package Contents

IVC-100/200 package includes the following items:

- Video capture card x 1
- CD x 1
- Hard copy of user manual x 1
- GPIO module: (for IVC-100G and IVC-200G only)
  GPIO daughter board x 1, flat cable x 1, input connector x 1 and output connector x 1

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Specifications

- Function: PCI Single Universal Board
  Plug and Play, 4 channel video capture card
- Analog Video Capture Engine: Conexant Fusion TM 878A
  NTSC/ PAL / SECAM Video Decoding
- Input/Output Interface:

  Video Input: pin connector for 4 channels BNC Connector
  Video Output : One channel Video Output selected from the driver GPIO: 4 inputs and 4 outputs (use CT-800 GPIO daughter board)
- Functionality Support:

Multiple Video Resolutions
NTSC: 720x480, 704x480, 640x480, 352x240, 320x240, 176x112
PAL: 720x576, 704x576, 640x576,352x288, 320x288, 176x144
Capture Frame Rate-Max 30 fps for 4 channels
Support Video Loss Detection Multi-screen support
Support resolution adjustment
Support image brightness, contrast, and saturation adjustment
LED for card ID configuration and identification

- Software Support: Provide WDM driver and SDK for developer
- Supporting OS: Window 98 SE, ME, 2000, XP,Linux
- Others: Power Consumption: 3.5W@5V
  Operating Temperature: 0~ 50oC
  Board Size: 120.19mm x 100m

Ordering Information

IVC-100
4 Channels Video Capture card(30 FPS)
IVC-100G
4 Channels Video Capture card(30 FPS) with GPIO module
IVC-200
High-end 4 channels video capture card(120FPS)
IVC-200G
High-end 4 channels video capture card(120FPS) with GPIO module
PM-1056-4P
PCI/104 4 Channels Video Capture Module (30 FPS)
PM-1056-4PG
PCI/104 4 Channels Video Capture Module (30 FPS) with GPIO module

i. Double click “Demo” folder.
ii. Double click “ivc-200.exe”.
iii. Click “Select Device” to choose the video capture card.
iv. Click “Video Size” to choose the resolution. The available resolutions are 160 x 120 and 320 x 240.
v. Click “Video Channel” to activate the video input channels.
vi. Click “GPIO” to control the input/output devices

Recording the Captured Image

i. Open the folder Demo and double click amcap.exe.
ii. Click Devices to select the video capture card.
iii. Click “Options and then Preview to view the captured image.
iv. Click Video Crossbar then select the recording channel from the Input list.

v. Click Capture then Start Capture.
vi. Set the directory and folder to save the captured file. Then click OK to start recording the video image.
vii. Click Stop Capture to stop recording.

Uninstalling the Program

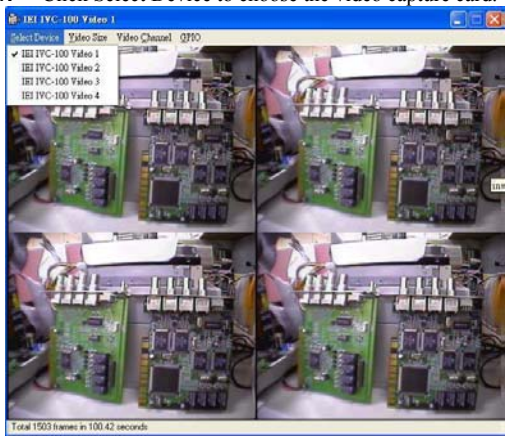
i. Click Start then choose Settings and double click Control Panel.
ii. Double click Add/Remove Programs.
iii. Select the software of Video Capture Card and click Add/Remove.
iv. Click Yes to uninstall the Video Capture Card software.
v. Select “Restart my computer now” and click Finish

Demo Programs

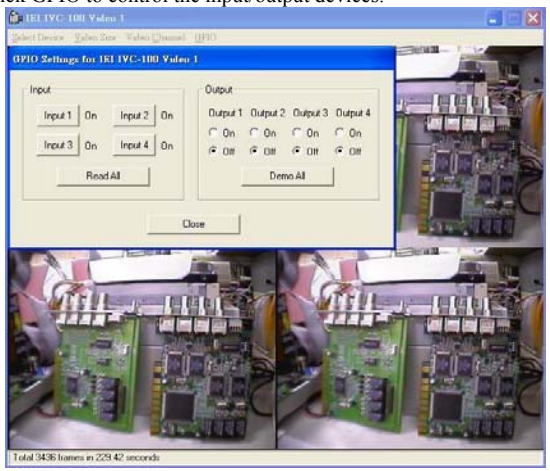
Video Image Preview for IVC-100G/100

To preview a video image, follow the steps below:

i. Double click Demo folder.
ii. Double click ivc-100.exe.
iii. Click Select Device to choose the video capture card.



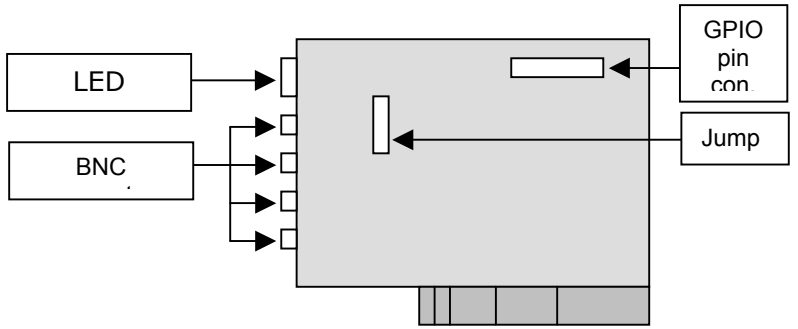
iv. Click Video Size to choose the resolution. The available resolutions are 160 x 120 and 320 x 240.
v. Click Video Channel to activate the video input channels.
vi. Click GPIO to control the input/output devices.



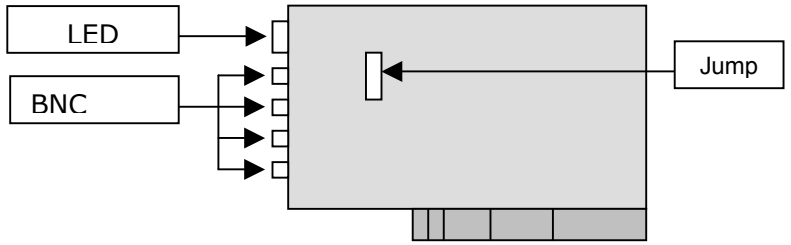
Video Image Preview for IVC-200G/200

Hardware Connections & Settings Illustration for Video Capture Card

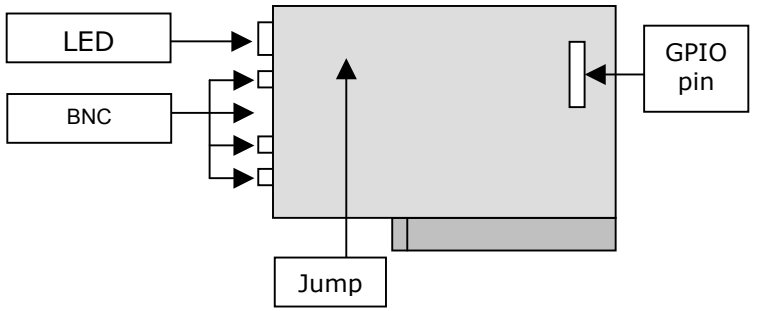
IVC-100G GPIO = general purpose input output



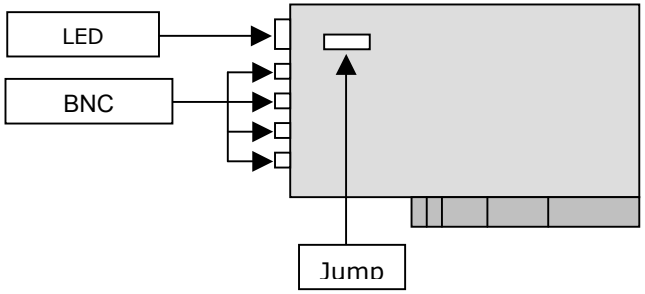
IVC-100



IVC-200G GPIO = general purpose input output



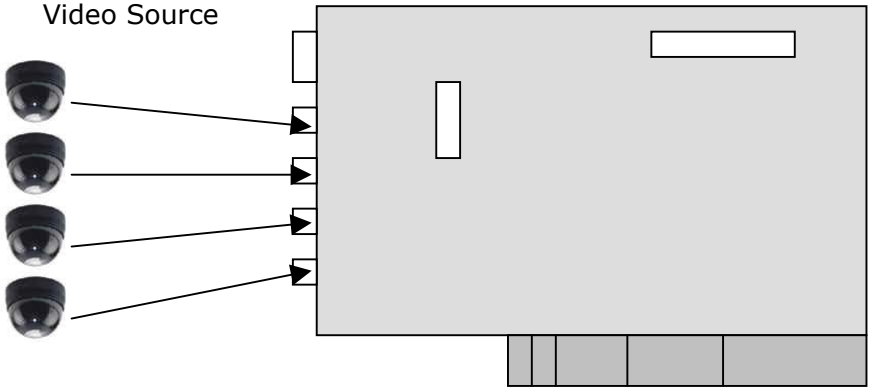
IVC-200



Connections to the Video Source

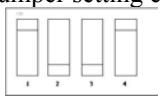
Connect your video source to the BNC connector of the video capture card. Take IVC-100G for example:

- **IVC-100G**



LED Jumper Settings

The jumper setting controls the card number on the LED.



Logic 1 = ON Logic 0 = OFF

Jumper Setting Table

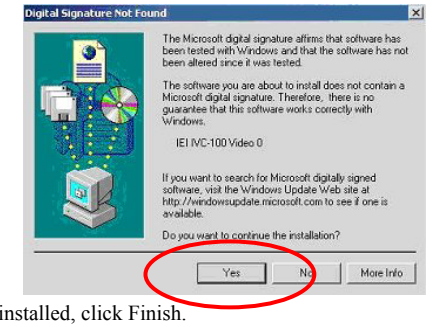
1	2	3	4	Card Number on the LED
1	1	1	1	0
0	1	1	1	1
1	0	1	1	2
0	0	1	1	3
1	1	0	1	4
0	1	0	1	5
1	0	0	1	6
0	0	0	1	7
1	1	1	0	8
0	1	1	0	9
1	0	1	0	A
0	0	1	0	B
1	1	0	0	C
0	1	0	0	D
1	0	0	0	E
0	0	0	0	F

Installation Procedures-Driver Installation

IEI driver installation program makes the driver installation of multiple cards an easy job. The steps of driver installation are described as below:

Steps:

i. Adjust the jumper setting of the video capture card.
ii. Insert the video capture card(s) into the computer system, and then turn on the computer.
iii. The system will find a new device on the system and ask you to install the driver. Click Cancel to close the dialog box.
iv. Run the program ieisetup.exe from the IEI Installation CD.
v. The window will show a welcome message for installation. Click the Next button for next step.
vi. The window will then show a message of current configuration, click Next to start the installation.
vii. The window will show a message to warn you that the software does not contain a Microsoft digital signature. Click Yes to continue the installation.



viii. There will be another window message to ask you to install an audio driver. Click Yes to continue.
ix. For multi-card system, you will be asked to install video and audio drivers for every card in your system. Click Yes to continue the installation.
x. After the driver has been successfully installed, click Finish.
xi. Restart your computer when you finish installing DirectX.