# Window 2000 Operation

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#### SDK selection for Win 2000

We offer the latest SDK for the majority of applications mainly in Window XP environment. However, for the backward compatibility in the field. Window 2000 and Fast Ethernet are also supported.

For this purpose, Pleora maintains SDK 2.3.0 and 2.2.0 in parallel. The major difference is e-Bus driver and GigE Vision compliance in SDK 2.3.0.

SDK 2.2.0 does not support GigE Vision but it works with the High Performance Driver and Universal Filter Driver in GigE (1000 BaseT) and Fast Ethernet (100 BaseT).

For users still using Window 2000, both Gevicam and Pleora provide SDK 2.2.0 (SP4).

### Installing SDK 2.2.0 to Win 2000

The installation of SDK is the same as SDK 2.3.0 Please refer High Performance Driver installation to GP series manual.

In this Tech-Note, we will use the Filter driver installation in Fast Ethernet adaptor card (NIC).

pplication Options		When camera
Default Timeouts & Packet size           Answer Timeout (ms)         1000         ±           Request Timeout (ms)         5000         ±           Packet Size (bytes)         1440         ±	First Packet Timeout (ms) 1 4 Packet Timeout (ms) 500 4 Command Retry Count 3 4	and PC is con- nected Coyote application
Application Control	Camera Link medium Mode (*)	opens as shown.
Show camera selection after detection Do connection after camera selection	<ul> <li>Reuse last configuration on startup (*)</li> <li>Display this dialog at application startup</li> </ul>	Make sure
Go to acquisition tab after connection	Display this dialog at application startup	"Packet size" is set at 1440
Memory Manager (*)  Simple Memory Manager  Max Buffer Count 16		and "First Packet Time-
Max Buffer Count 16	Release memory when application exits	out" is more
Last Buffer ID 255	<ul> <li>Indease memory when approach exits</li> </ul>	than 1 (ms).
(*) Requires a restart of the application	Cancel	

#### **Device Finder and Change IP Address**

Next, Device Finder dialog appears and indicates the adaptor connection. It may take a minute to find the connection. IP address may not be correct at first time. Vou can Network Device Finder

	rou ourr
Povice GP-21400C-0016 with IP address [169.254.2.2]     Povice GP-21400C-0016 with IP address [169.254.2.2]	change IP En- gine Settings with new IP Address by right-clicking the driver. For GP series of cameras, it needs to be
Device Information Timeout (ms) 100 🔽 Show all devices	169.254.xx.xx. Then click OK
Find OK Cancel	THEIT CIICK OK

-101× Device GP-3660-0020 with IP address [192.168.1.1] Device GP-3660-0020 with IP address [169.254.1.1] Network Adapter [00:80:D0:86:9C:10]
 Filter Driver [00:80:D0:86:9C:10] Network Reference Set Devic 254 Device Information Version 4.14, Device 14, Module 6.0, Un F Show all devices Timeout (ms) 100 Timeout (ms) 10 Find OK Cancel

#### and proceed.

In the High Performance Driver, NIC IP address and IP Engine does not have to match to connect the device.

## **Covote application**

File Device Tools Disp	lay Help			
File Device Tools Disp Device   Acquicition   Di Device Information Status Device Information Device Information Carriers IP Information IP address		Timi-cuts & Packets Command Retries	Device ID 0	cation dialog opens. Make sure "Camera Link camera" is selected in "Select Cam-
IP name (optional) MAC address Adapter ID Communication mode Heartbeat / Multi-ta Connection Flag Device Actions		Anovet Timood First Packet Timood Packet Timood Request Timood Packet Size Calculate lineocds.	1000         es           1         es           500         es           5000         sa           1440         a	era" and press "Test". It will connect and "Status" changes to "Device con- nected". If you
(*) Not saved in 20ML config	puration Net		Terfaxe Apply	see error mes

sage saying "Cannot connect the Socket", it indicates the IP address is not correct. Make sure the left two segments are 169.254. Last two segments are arbitrary. So, you can use your own numbers.

If the camera is connected to a specific PC, it is good practice to save the new IP address configuration to flash for next power up.

### **Flow Control**

For Fast Ethernet, the data flow control must be changed form the default. Open "Configuration" and "Device Features" tab. Change values as shown. (Inter Packet Delav:10. Data rate:10,000,000 and Link speed: 100 Mbit) Click OK and go to "Acquisition" in Coyote application to grab images.

	Device Features G						
		PID Control Bits	Port Communi	ication   R	GB Filter		
	Flow Control						
	Inter Packet Delay	10					
	Inter Packet Delay (ns)	300					
	Expected Data Rate (	100000000					
	lank Speech	100 MBits/sec	ands				
	Resulting Inter-Packe	0					
	Pulse Generator 0						
Ð	Pulse Generator 1						
•	Pulse Generator 2						
	Pulse Generator 3						
•	Rescaler 0						
	Delayer 0						
	Counter 0						
	GPIO Look-Up Table						
	Input Debouncing						
	GPID Configuration						
Ð	Timestamp Counter						
Lin	k Speed						

GEVICAM: A GigE Vision Camera Company