# Window 2000 Operation

#### SDK selection for Win 2000

We offer the latest SDK for the majority of applications mainly for the Windows XP environment. However, for backward compatibility in the field. Windows 2000 and Fast Ethernet are also supported. For this purpose, SDK 2.2.0 is maintained in parallel. The major difference is an e-Bus driver and GigE Vision compliance in SDK 2.3.0 and newer versions for Win XP.

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

For users still using Windows 2000, SDK 2.2.0 (SP4) is provided.

# Installing SDK 2.2.0 to Win 2000

The installation of SDK 2.2.0 is the same as for SDK 2.3.0 and newer versions. Please refer to the High Performance Driver installation in the GP Series manual. This Tech-Note describes the installation of the Filter Driver for the Fast Ethernet adaptor card (NIC).

pplication Options		🗵 When camera
Default Timeouts & Packet size     Answer Timeout (ms)     1000     4     Request Timeout (ms)     5000     4     Packet Size (bytes)     1440     4     Application Control     Show device detection dialog on startup     Show camera selection     Do connection after camera selection	First Packet Timeout (ms)       1       4         Packet Timeout (ms)       500       4         Command Retry Count       3       4         Command Retry Count       3       4         Camera Link medium Mode (*)       ***       ***         Reuse last configuration on startup (*)       **       Display this dialog at application startup	and PC are connected Coyote appli- cation opens as shown. Make sure "Packet size"
Go to acquisition tab after connection  Memory Manager (*)  Max Buffer Count  High Memory Manager  First Buffer ID  Last Buffer ID  (*) Requires a restart of the application  DK	Release memory when application exits	is set at 1440 and "First Packet Time- out" is more than 1 (ms).

# **Device Finder and Change IP Address**

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

		Tou can cha
Device GP-21400C-0016 with IP address [169.254.2.2]		IP Engine Se
Filter Driver (00:80:D0:86:90:10)		tings with ne
		IP Address I
		right-clicking
		driver. For G
		series of car
		eras, it need
		be 169.254.xx
I Device Information		Then click "(
Timeout (ms) 100 🔽 Show	all devices	and proceed
Find OK Cancel		For the High
	11	

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

# **Coyote application**

The Coyote application dialog opens. Make sure

Coyote	100 T 4005				amera Link
File Device Tools Disc	Any Help Instantia I			Ca	amera" is
Device Information Status Device Name Device Information	Not connected [GP-21400C-0016 [Device 14, Module 6, Sub-Module 0		Device ID 0	se "S	elected in Select Cam- a" and press
IP information     IP address     IP name (optional)     MAC address     Addres     Address     Address     Addres     Address     Addres     Add	169         254         2         2           00         90         62         10         70         FF           00         90         7         70         FF         70           10         10         70         70         FF         70         70	Time-outs & Packets Command Retries Answer Timeout First Packet Timeout Packet Timeout Request Timeout Packet Size Calculate timeouts	3 1000 7 500 5000 1440	"" "" "" "" "" "" ""	est". It will onnect and Status" nanges to Device con- ected". If you
Device Actions     Detect	Add Del	ota Test	Récorned	se m pl	ee an error essage dis- aying Cannot con-

nect the Socket", it indicates that the IP address is not correct. Make sure the left two segments are 169.254. The 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 the next power up.

# Flow Control

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

	Device Features 6	wel Type   Grabber Settings   Grabber Features PID Control Bits   Port Communication   RIGB Filte			
	Flow Control				
	Inter Packet Delay	10			
	Inter Packet Delay (ns)	300			
	Expected Data Rate (	100000000			
	Link Speed	100 MBRs/seconds			
	Resulting Inter-Packe	0			
۲	Pulse Generator 0				
ŧ	Pulse Generator 1				
۲	Pulse Generator 2				
۲	Pulse Generator 3				
۲	Rescaler 0				
Ð	Delayer 0				
Đ	Counter 0				
Ŧ	GPIO Look-Up Table				
۲	Input Debouncing				
ŧ	GPID Configuration				
۲	Timestamp Counter				
Lir	nk Speed				

GEVICAM: A GigE Vision Camera Company