

Advantech AE Technical Share Document

Date	2016/07/28	SR#	1-2516538481		
Category	□FAQ∎ SOP Related OS				
Abstract	Connect Inspector PRO through Advantech PCIE-1172				
Keyword	PCIE-1172, PCIE-1174, Frame Grabber, Inspector PRO				
Related Product	PCIE-1172, PCIE-1174, Inspector PRO				

Problem Description:

How to connect Inspector PRO through Advantech PCIE-1172?

Brief Solution - Step by Step:

In this page, I will illustrate how to connect Inspector PRO through PCIE-1172/1174 and CVB.

Here we' ll show some required software and components. If you have prepared all components you need, please follow the following steps.

- Required Software :
 - Inspector PRO 7.2.0.3 or higher
 - Common Vision Blox 11.1 or higher
 - One of the following licenses :
 - ✓ A Inspector PRO Dongle
 - ✓ CVB Image Manager
 - ✓ CVB CameraSuite over a GigE Camera purchased from Stemmer Imaging
 - ✓ Free CVB Trial License
 (We'll use Free CVB Trial License for an example)
 - CAMNAVI_FULL_INSTALLER_v1100_20160627
- Components :
 - Sherlock CVB driver contains the files
 - CVBDrv.dii
 - CVBDrv.ini
 - CVBDrvHistory.txt
 - CVBDrv_Sherlock CVB driver Documentation.pdf

1.Install PCIE-1172/1174 and install CAMNAVI_FULL_INSTALLER_v1100_20160627

2.Install Inspector PRO

3.Install Common Vision Blox.

(You can download it here : <u>http://www.commonvisionblox.com/en/download/release.CVB102</u>)



PS. If you use Free CVB Trial License. Please enter Common Vision Blox Management Console, click Licensing→ Node Locked→Enter License Activation→Add the license file.

📴 Common Vision Blox Manageme	ent Console				
File Tasklist Help					
Tasks	CVB License				
1 - Settings and Information	Trial and Node-Locked Licenses				
2 - Licensing	Trial and Node-Locked Licenses are Common Vision Blox Licenses that do not need a dongle, but are				
Overview	a limited usage period.	e been activated. They may either be permanent or have			
Serial Numbers	Get Free Trial License	Free Trial Licenses include the whole range of Common Vision Blox tools and functionality. They expire after 30			
Magic Numbers		days. Choose this option if you want to test Common Vision Blox.			
Camera Suite					
Node Locked					
	Purchase Node-Locked License	Node Locked Licenses do not expire. They include only the tools you ordered. Contact your local distributor for pricing and details (see www.commonvisionblox.com for a list of distributors).			
		Remember that an activation code will only be sent to you if you also raise an order for the License that you			
	Enter License Activation	If you received a remote activation code from STEMMER IMAGING (file extension *.WibuCmRaU) you may use this option to activate the corresponding license on your system.			
3 - GenlCam 💌					
Ready.					

Picture1: The image of how to add a Free CVB Trial License

5. Install Sherlock CVB Driver.

6. Open the file named "CVBDrv" in Program Data→Advantech→Inspector PRO→Drivers→CVBDrv and type "Driver = %CVB%\Drivers\GenICam.vin" in the region of [Camera0]

Picture2: The image of CVBDrv.

7. Open Inspector PRO to enable the Sherlock CVB Driver. Click Options→Acquisitions→Sherlock CVB Driver→ Enable.



Con	figure hardware		×
	Spyder 3 GigE (iPort/(Disabled	
	PCI 8255 Digital IO	Disabled	
	DirectShow driver	Disabled	
	Video for Windows	Disabled	
	Simulation driver	Disabled	
	Sample driver	Disabled	
	NI DAQmx ver 8.8 driv	Disabled	
	AdLink DIO driver	Disabled	
	Advantech DIO driver	Disabled	=
ſ	Sherlock CVB Driver	Enabled	-
	Currently loaded driv	rers	
	CVBDrv.dll		-
Aff	ter changes are made the a tarted to load new hardwa OK	application needs to be re configuration. Cancel	

Picture3: The image of enable Sherlock CVB Driver.

Or Open the file named "Drivers" in Program Data \rightarrow Advantech \rightarrow Inspector PRO \rightarrow Drivers \rightarrow Drivers and type "1" in "ENABLE"

[DRIVER10]
NAME=Sherlock CVB Driver
FILE=CVBDrv.dll
CONFIG=CVBDrv.ini
ENABLED=1

Picture4: The image in "Drivers".

8. Before you restart Inspector PRO, please open Common Vision Blox Management Console and select "3-GenICam".

9. Click the "Advanced Config" icon

File Tasklist Help			-		
Tasks	Preview	🎨 Advanced Config	Properties		📑 Options 👻
1 - Settings and Information 2 - Licensing 3 - GenlCam © Device Configurator © Bindings Editor	Common Vision Blox Evaluation Common Vision Blo Evaluation Common Vision Blo Evaluation Common Vision Blo Evaluation Update Image Update Image Update Image	X Evaluation Seve Image	Analog Controls Mage Format C Adl Controls Acquisition Con Digital I/O Control Acquisition Con Digital I/O Control Counter and Tin UT Controls Device Informat Chunk Data Str Chunk Data Events Generati	: ontrols trols rols ner Controls ion eams	
	Configured Devices Q Discover	Options 🛛 👌 🐣 👌	ᆽ 🔚 🚿 –		
	CamPort Vendor Model	UserName	Serialnumber	IP-Address	MAC-Address
	🗲 0 Basi QCAM	2		192.168.10.150	00-30-53-19-FC-92 🛷
•					

Picture5: The image of CVB.



Enabling an Intelligent Planet

10. Select the two devices on the GenICAM Device Tree, move to CVB CamPort Assingment, click the "Save Configration" button, then close the window

🙈 Common Vision Blox Management Console - Adva	anced Configuratio	'n		×
GenICam Device Tree Factory GE GigE Frame Grabber Transport Layer X GigE Frame Grabber Interface Layer GigE Frame Grabber Device Layer GigE Frame Grabber Device Layer GE SI GEV TL	Branch Info Device Info Vendor: Model:	ADVANTECH FGGigE	2. ▼ >>> ≪ <	CVB CamPort Assingment (0: ADVANTECH GicE Frame Grabber Device Layer @ FGGigE_IF (D:\Job\GeniCam_GenTL_Producer\x64\FG 1: ADVANTECH GigE Frame Grabber Device Layer @ FGGigE_IF (D:\Job\GeniCam_GenTL_Producer\x64\FG
Discovery Ignore Subnet 200 Discover Timeout in ms Discover Assign IP	Open Mode ReadOnly Control Exclusive 	Multicast Master No Join 224 . 64	3.	To configure CVB: Save Configuration
Open Device			4.	Close

Picture6: The image of CVB.

11. The camera icon will become green if there is a camera connection.

File Tasklist Help						
Tasks	Preview	🎨 Advanced Config	Properties			Options -
1 - Settings and Information	Common Vision Blox Evaluatio	n	🗉 Analog Contr	rols		
2 - Licensing			🗄 Image Forma	t Controls		
3 - GenlCam			AOI Controls			
An Device Configuration			Acquisition C Digital I/O Co	ontrois		
C Device Configurator			Action Contr	ol		
< 🎪 Bindings Editor			Counter and	Timer Controls		
			LUT Controls			
			Device Inform	Device Information		
	Common Vision Blox	Evaluation	Chunk Data S	Streams		
	2592x1944 (1523,0) V=(0)					
	Grab Snap Update Image	Save Image				
			~ 💷 🔥			
		🖁 Options 👻 👕 🤝 🚳		W ()) (1410.111	
	Camront Vendor Model	UserName 2	erainumber	IP-Address	MAC-Address	
		2	170	192.108.10.150	00-30-33-19-PC-92	
	I ADVANIECH FOGige					4
	1 : The Device on Port: 1 is not reachable! Is the Device connecte	ed or an incompatible pixel format con	figured?			

Picture7: The image of CVB.

12. Change the parameters in the "Properties" window



[asks	Preview	😒 Advanced Config	Properties		📑 Options 🗸
- Settings and Information	Common Vis	ion Blox Evaluation	Analog Contro	ols	
- Licensina			🗉 Image Format	Controls	
GonlCom			AOI Controls		:
Genican			Width	2592	2 🗧 🗐
The Device Configurator			Height	1944	•
			X Offset	0	
🙀 Bindings Editor			Y Offset	0	
-			Center X	False	
			Center Y	False	
	Co	mmon Vicion Blox Evaluation	Binning Mode Ho	orizontal Sumr	ming
	Grab Snap Configured Devices	Update Image Save Image	Sets the width of	the area of interest in pixels	
	CamPort Vendor Mode	l UserName	Serialnumber	IP-Address	MAC-Address
	🧀 0 Basi QCAN	ſ .	2170	192.168.10.150	00-30-53-19-FC-92
	🔎 1 ADVANTECH FOGig	E			

Picture8: The image of CVB.

13. Check the "Grab" checkbox for live image or click the "Snap" button for one shot image and restart Inspector PRO

■ <u>Reference</u>: