

INSPECTA-4Ce **Camera Link® Frame Grabber**

- Low Cost Frame Grabber with the powerful PCI Express Bus, for digital Area and Linescan Cameras with Camera Link® Interface
- PCI Express® Single Lane with up to 250Mbytes/s Transferrate
- 26-pin. Base Camera Link® Connector for 85MHz Videodata, Cameracontrol and serial Interface
- Especially suited for fast Area- and Linescan Cameras
- Power over Camera Link® (PoCL) and an additional Connector with 12VDC for Camera Power Supply
- Four optocoupled external I/O Signals for Trigger and Encoder
- Drivers for Windows® 2000/XP and Vista
- Interfaces for major Image Processing Libraries as: LabView and HALCON



PCI Express® is the new, powerful Slot for PC add ins

It was developed to cover the demanding needs of modern PC technology: more bandwidth, point to point connection of every slot with the system controller to provide independent performance regardless of the number of PC cards.

Power over Camera Link® (PoCL)

With cameras and cables designed for PoCL the power cable is no longer needed. An electronic fuse protects cameras and frame grabber against abuse/damage.

Full compatibility to the proven Inspecta Frame Grabber family

The INSPECTA-4Ce Frame Grabber is a new member of the proven INSPECTA family of high performance Frame Grabbers for low cost Image Processing applications. It is hardware- and software compatible and can be used intermixed with the well known Frame Grabbers of the INSPECTA family without any change to application software- or hardware.

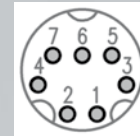
PCI Express® Bus Frame Grabber INSPECTA-4Ce

Technical Data

Video input	3x8-Bit or 2x10-Bit or 2x12-Bit or 1x24-Bit
Input Format	"BASE" Camera Link®
Videogeometry	Progressive, Image height and line-length programmable
Datarate	Up to 85MHz per 8-Bit-Channel
Transfer to Host	PCI Express® Single Lane
Transferrate	Up to 250 MB/sec.
Serial Interface	According to Camera Link® Specification, Baudrates 9600 - 115Kbaud
Camera Synchronisation	4 programmable RS-644- Signals (CC1-4) for Trigger or Linestart
External Signal Inputs	4 Inputs, optocoupled for Trigger and Quadrature Encoder Signals.
External Signal Outputs	4 Outputs, optocoupled, operated with Driver Function Calls, e.g.: for external Camera Triggering
Camera Power Supply	Power over Camera Link (PoCL) with electronic Fuse, 12 VDC, 1,2 A
Power Consumption	+3.3VDC / 2 A, +12VDC / 0,1A (without Camera)
Operating Temperature	0-50°C
Software	Driver for Windows® 2000/XP, Vista, LabView and HALCON

Power Connector pin assignment

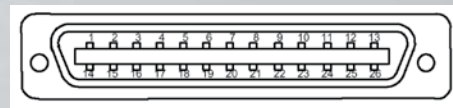
Mini-DIN Pin	Name	Type	Comment
1,2	Xsupply	Power	12V 1A max
3,4	GND		
5	HD	TTL out	Horizontal Drive out
6	nc		
7	SC2/CC1	TTL out	Shutter control out



Assignment Camera Link Interface

All signals according to „Base“ / „Full“ Camera Link® specification

Pin Nr.	Name	Pin Nr.	Name	Type	Comment
2	CC4-	15	CC4+	LVDS out	MC3
3	CC3-	16	CC3+	LVDS out	MC2
4	CC2-	17	CC2+	LVDS out	MC1
5	CC1-	18	CC1+	LVDS out	MCO



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