

Matrox Odyssey Xpro

Camera Interface Application Note

SONY DXC-H10

August 21, 2003

Basics about the camera

Camera Descriptions

- Effective resolution: $1920 \times 1034 \times 8\text{-bit RGB}$ @ 30 fps.
- Analog High Definition video output.
- Interlaced scan.
- External or internal sync.
- External or internal exposure control.
- 74.25 MHz pixel clock rate.

Interface Modes

- Continuous

Camera Interface Briefs

Mode: Continuous

- $1920 \times 1034 \times 8\text{-bit RGB}$ @ 30 fps.
- Analog High Definition video output.
- Interlaced scan.
- Matrox Odyssey Xpro receiving video (SYNC on green) from camera.
- DCF used: [DXCH10_1920x1034Con.DCF](#)

Mode of operations as per Matrox Imaging (in parentheses as per camera manufacturer)
Basics about the interface modes



VIDEO



*Matrox Odyssey Xpro board with analog frame grabber module

Specifics about the interface modes

Camera Interface Details

Mode: Continuous

- **Frame Rate:** Matrox Odyssey Xpro receives the continuous video from the camera at 30 frames per second.
- **Exposure time:** Exposure time is inversely proportionate to the frame rate.
- **Camera control:** Use default settings in the on-screen menu. Refer to the camera manual for more information.

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Cabling details for the
interface modes

Cabling Requirements

Mode: Continuous

- **Cable and Connection:** Sony CMA-H10 Camera Adapter, Sony CCZ-A cable and Matrox Imaging DVI-TO-8BNC/O cable required for video and sync signals. Sony DXC-H10 camera is connected to CMA-H10 Camera Adapter box via the 26-pin-TO-26-pin CCZ-A cable. The connection between the RGB BNCs of the CMA-H10 Camera Adapter and the Matrox Odyssey are as follow:

Matrox Odyssey

(DVI analog input connector-0)

Pin name Pin no.

CH0_INPUTA C1

CH1_INPUTA C2

CH2_INPUTA C3

SONY DXC-H10

(BNC connectors)

Pin name Pin no.

R/P_R OUT BNC

G/Y OUT* BNC

B/P_R OUT BNC

* SYNC on green

The DCFs mentioned in this application note are also attached (embedded) to this PDF file – use the Adobe Reader's View File Attachment to access the DCF files. The information furnished by Matrox Electronics System, Ltd. is believed to be accurate and reliable. Please verify all interface connections with camera documentation or manual. Contact your local sales representative or Matrox Sales office or Matrox Imaging Applications at 514-822-6061 for assistance. © Matrox Electronic Systems Ltd, 2003-2011.

Matrox Electronic Systems Ltd.

1055 St. Regis Blvd.
Dorval, Quebec H9P 2T4
Canada
Tel: (514) 685-2630
Fax: (514) 822-6273
ODY-CID-025

