

Matrox Meteor-II/Multi-Channel Camera Interface Application Note

Sensors Unlimited SU320M 1.7RT

April 24, 2002

Basics about the
camera

Camera Descriptions

- Effective resolution: $640 \times 240 \times 12\text{-bit}$ @ 30/60 fps.
- Single tap analog/RS-422 digital video output.
- Progressive scan.
- Internal sync.
- Internal or external exposure control.
- 6.01 MHz pixel clock rate.

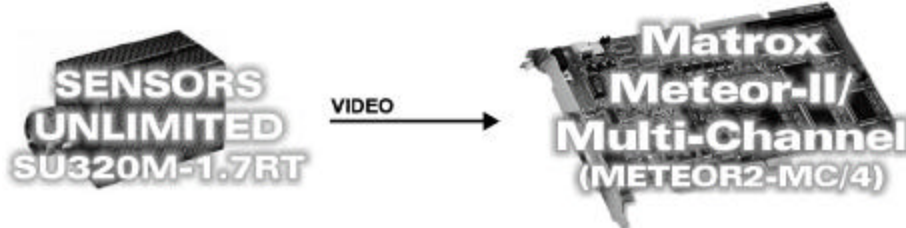
Interface Modes

- Continuous (Double speed)

Camera Interface Briefs

Mode: Continuous

- $640 \times 240 \times 8\text{-bit}$ @ 60 fps.
- Single tap analog video.
- Progressive scan.
- Matrox Meteor-II/Multi-Channel receiving video signals from camera.
- DCF used: [SU320MA.DCF](#)



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

Camera Interface Details

Mode: Continuous

- **Frame Rate:** Matrox Meteor-II/Multi-Channel receives the continuous video from the camera at 60 frames per second.
- **Exposure time:** Exposure time is inversely proportionate to the frame rate (no shutter) or determined by the shutter setting. Refer to the camera manual for more information.
- **Camera switch settings:** Users can control the camera via the serial port using RS-232 compatible signals or by external switches. Refer to the camera manual for more information.

Specifics about the
interface mode

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*Cabling details for the
interface mode*

Cabling Requirements

Mode: *Continuous*

- **Cable:** DH44-TO-8BNC cable required for video, synchronization and control signals.
- **Connection:** Connections between the 12-pin connector of the camera and the 44-pin connector of the Matrox Meteor-II/Multi-Channel are as follows:

METEOR2-MC/4
(44-pin connector)

Pin name

Pin no.

SENSORS ULIMITED SU320M-1.7RT
(12-pin connector)

Pin name

Pin no.

VID1_IN1

15

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VIDEO OUT

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The DCF(s) mentioned in this application note can be found on the MIL CD or our FTP site ([ftp.matrox.com](ftp:matrox.com)). 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.

Corporate headquarters:

Canada and U.S.A.

Matrox Electronic Systems Ltd.
1055 St. Regis Blvd.
Dorval, Quebec H9P 2T4
Canada
Tel: (514) 685-2630
Fax: (514) 822-6273

