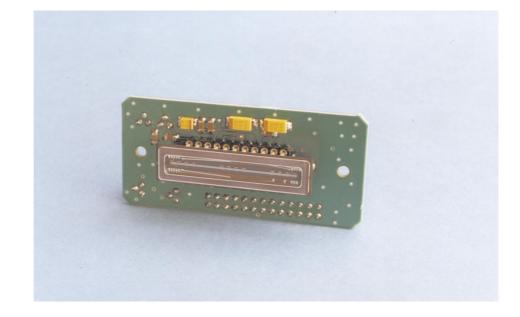
LCCD 2048S - 14



Key Features:

- Stand alone CCD-line scan camera.
- Down to 4.2 µs exposure time.
- All clock signals included.
- Analog output with pixel clock.
- Start of frame output.
- Low cost

Overview:

The LCCD 2048 is an easy to use, complete ccd linescan camera on a single 67.5 mm x 31.5 mm sized printed circuit board.

The low exposure time of $4.2 \ \mu s$ offers very low sensitivity. Therefore the LCCD 2048S can be used as a position detector or a beam profiler of a 1mW laser without additional filter.

For operation the LCCD requires power 5 and + 12V only, additional logic is not required.

To provide more flexibility the LCCD has an interface to control exposure time and pixel clock. All inputs are connected to internal pull up resistors, so they can left unconnected if not required.

Applications:

- Beam profiler.
- Industrial imaging.
- Bar code reader.
- Position detector.
- Prototyping.

Hardware:

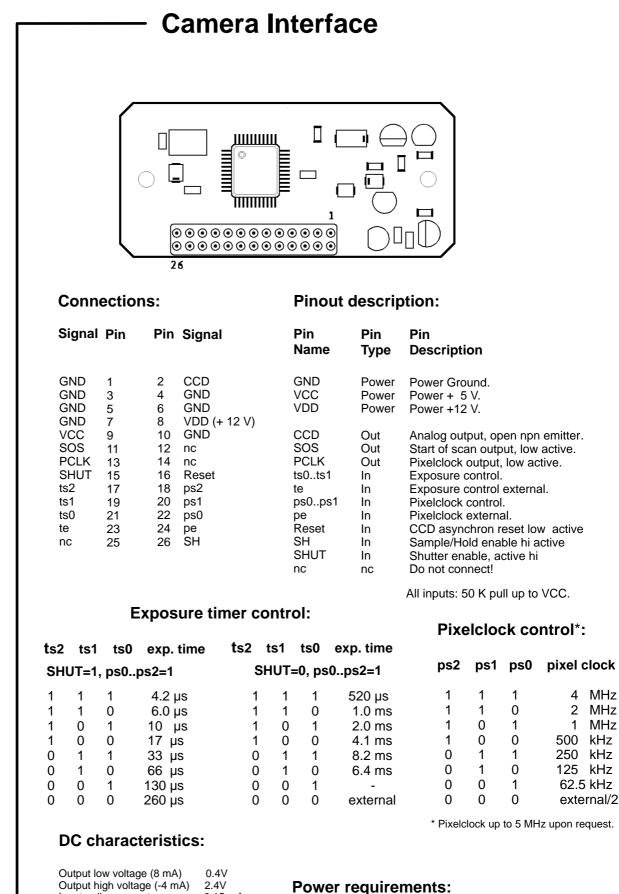
The LCCD linescan camera includes the CCD-linescan sensor with all required CCD-timing signals including pixel clock and exposure control.

The digital interface provides user selectable pixel clock and exposure time. An output for pixel clock and start of frame facilitates the operation with an additional frame grabber.

With an additional oscilloscope the LCCD-2048 converts to a complete very low cost CCD-linescan camera with display. (See the application on the last page).

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Complete low cost ccd linescan camera



-CCD 2048S - 1

Input pullup current

Input low Voltage (max)

Input high voltage (min)

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+ 5 V 200 mA, + 12 V 100 mA

4

2

1

MHz

MHz

MHz

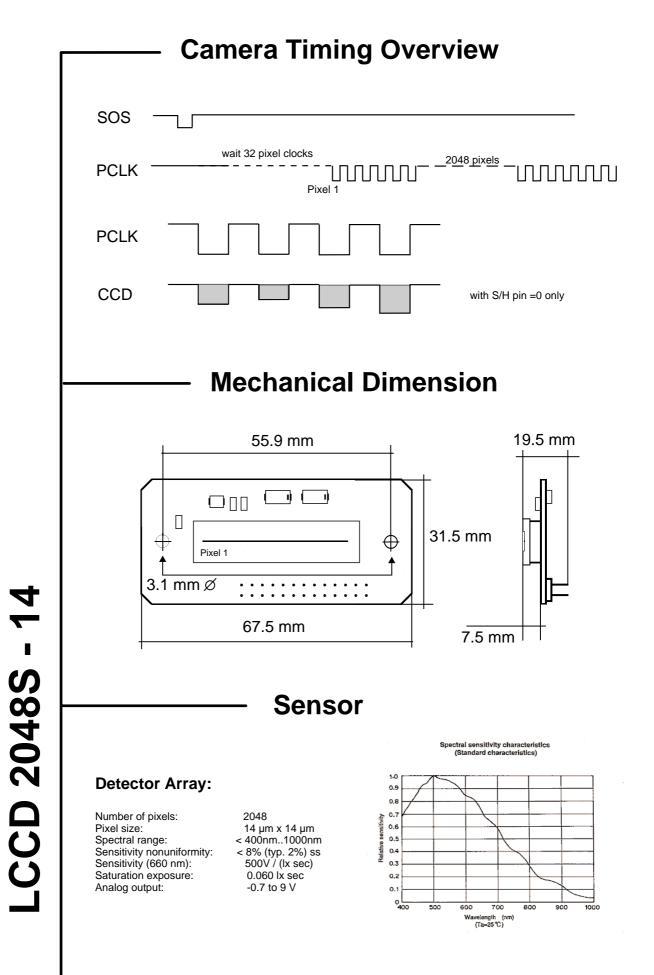
kHz

kHz

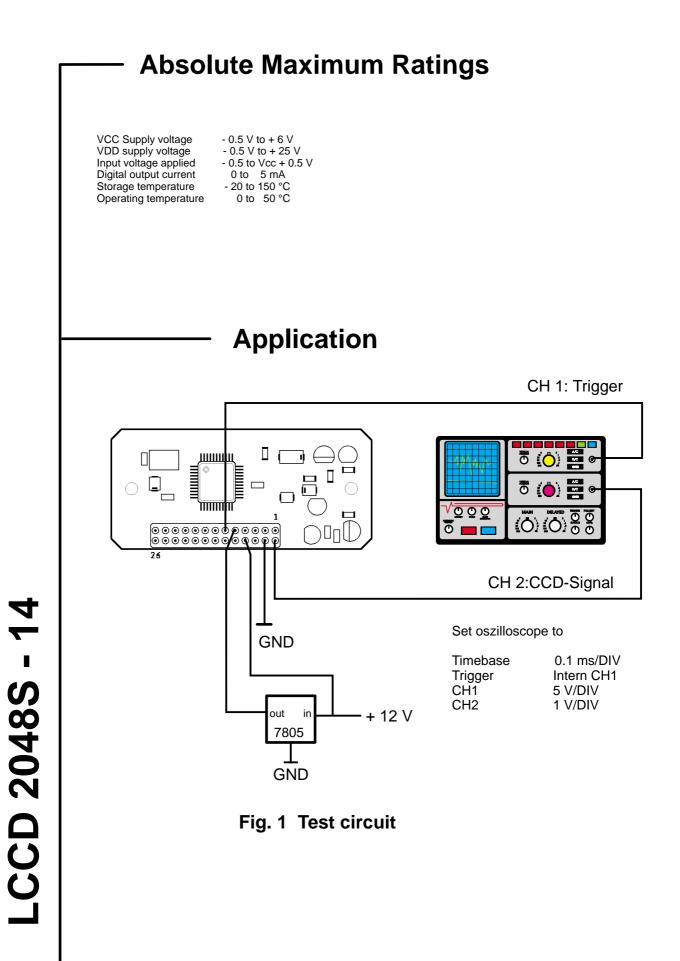
-0.15 mA

0.8 V

2.0V



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