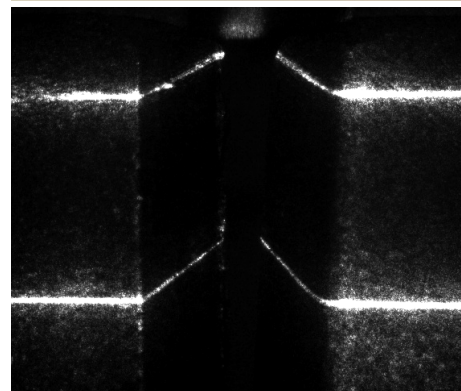
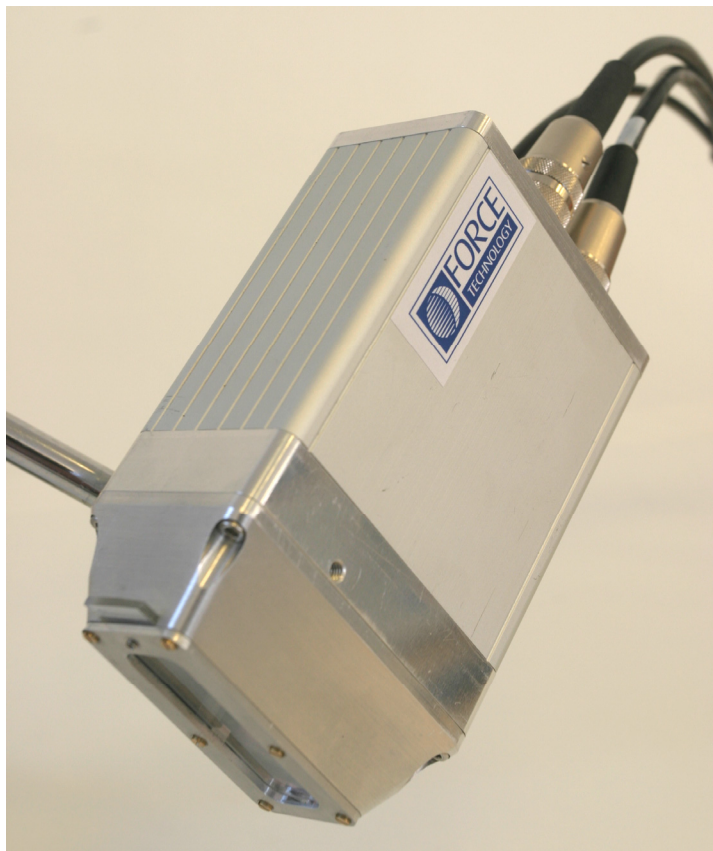


# FORCE LaserSensor, FT-DL50



The FORCE LaserSensor, FT-DL50 is a low-cost dual line seam tracking system developed for welding purposes.

It consists of an optical sensor and a dual line generator incorporated into a single light-alloy sensor head.

The optical sensor is based on a high resolution, fast frame rate, 1/3 inch CMOS chip with a Gigabit interface.

The high output dual laser line generator ensures stable tracking during severe conditions.

Transmission of data between host computer and sensor head is accomplished by a single Ethernet cable with a maximum length of 100 meters.

Controlling the sensor head is done by software and all relevant parameters such as shutter speed, timing and laser intensity can be controlled. The software package includes a standard image processing module for V-grooves. Other joint types on request.

The sensor head has a built-in cooling channel and fume deflector.

## Technical data

|  |  |
|--|--|
| Interface:                                     | GigE, Ethernet cat. 5E                             |
| Sensor:  | 1/3 inch CMOS                                      |
| Frame rate:                                    | Up to 60 frames/second                             |
| Laser intensity:                               | Independently adjustable in 64 steps               |
| Max output power:                              | 2 x 50 mW CW                                       |
| Wavelength:                                    | 685 nm   |
| Stand-off:                                     | Standard 120 mm, other factory settings on request |
| Horizontal field of view at nominal stand-off: | 50 mm, other factory settings on request           |
| Useful depth of view at nominal stand-off:     | +/- 20 mm  |
| Power:   | 12V DC, 6 Watts                                    |
| Dimensions:                                    | 80 x 130 x 40 mm (H x W x L)                       |
| Weight:  | 0,3 kg   |

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