next scan technology

Process Development Kit

To explore the benefits of polygon scanning technology in the shortest period of time Next Scan Technology releases the Process Development Kit. This kit saves your company valuable time in integration and commissioning efforts.

Higher scan speeds on large areas challenge existing scan strategies

The Process Development Kit is a compact lab ready set-up ready for instant material processing. The LSE170 polygon scanner is complimented with beam guiding optics, beam expander and high quality linear stage mounted on a 600 x 600 mm base plate.

The PDK is ready for demonstration in our new demo center, lab time is available for customer process development and testing. The PDK is also for sale or renting, after a basic training you can start testing within a few hours.

The Process Development Kit consits of:

Line Scan Engine 170A

The LSE170A is a one dimensional line scanner. This polygon scanner system includes a full telecentric, mirror based f-Theta optics. The scan head is capable of handling both NIR and VIS wavelength. For detailed specifications see our LSE170 data sheet.

LSE Controller

The intimate timing and synchronization between scanner speed, laser triggering, laser spot placement and linear transport is provided by our controller box functionality. Bitmaps and process parameters are communicated over Ethernet from a standard PC.

Linear stage

To scan 2D surfaces, a linear sample transport (Aerotech PRO165LM, 300 mm travel) is included. To focus the system a manually operated Z-axis with 100 mm travel is included.

SuperSync™ Technology

Best spot positioning requires laser pulse timing jitter reduction. This SuperSync™ option is available for a limited number of lasers. To use this option please address the type of laser you would wish to incorporate.

Support services

The set up of the LSE170A scanner system is guided and monitored by a NST engineer and includes:

- > Integration support
- > Installation and operator training
- > Bitmap raster scan training course
- > Evaluation and suggestions for future improvements on raster scan performance.

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Noorwegenstraat 29 (Haven 8008)
B 9940 Evergem (Ghent)
Belgium
+32 9 244 7529

LSE170A specifications –June 2013
Specifications may alter without notification.

More information: www.nextscantechnology.com