

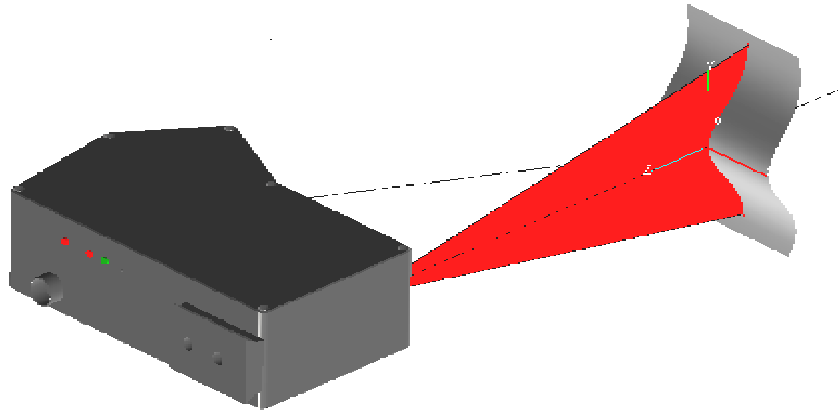
nxSpector

The Smartest Laser Sensor in the World!

Presented by NextWare, Inc

April, 2006

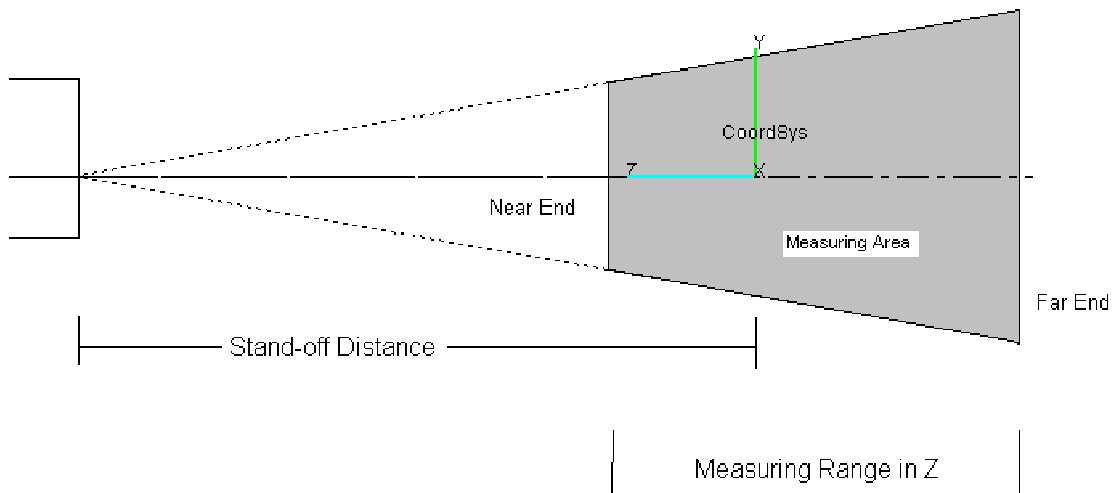
nxSpector



- *Embedded Digital Signal Processor (DSP) for Dedicated 3-D Coordinate Computing from Real-time Image Data;*
- *Sophisticated Laser Technology for Non-contact Sensing and Measuring with self-adaptive capability;*
- *Advanced Digital Imaging Technology with Real-time Data Acquisition and Processing;*
- *Auto-learn & Auto-track Functions to Track Object Conditions;*
- *Plug-n-Play Industry-standard USB Interface Ready for Networking in Multiple-task Measurement Environments;*
- *Built-in Synchronic Output Pulse and Software Trigger for External Event Synchronization.*
- *Low-power & Sleep Modes for Less Power Consumption When Standby.*



Technical Specifications* :



- Standoff: 175 mm
- Measuring Range: -54 mm(z) x 46 mm(y)(far end) ~ +35 mm(z) x 28mm(y) (near end)
- Max Sample Points: 480 points per line
- Max data rate: 6,400 points per second
- Resolution: 5 μ m
- Accuracy: up to 30 μ m (2σ)
- Operating temperature: 10 ~ 35 °C
- Power Consumption: DC +12V at 0.4A
- Connection Port: USB 1.1

- Dimensions: 139 mm (L) x 94 mm (W) x 41 mm (H)
- Approx. Weight: 450 g (without cable)
- Cable Length: 1.25 m

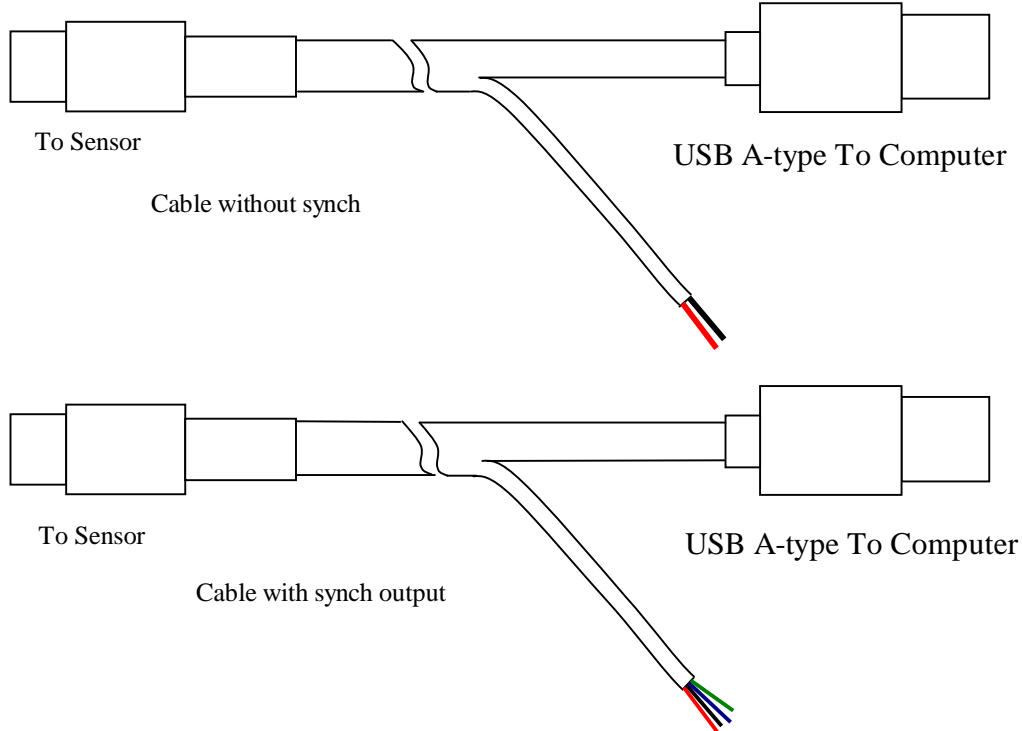
1. The measured objects must not be very shining, transparent or black so that the sensor can "see".
2. The measuring range and working distance can be customized upon request.

* The specifications and data published here are subject to revise or change without notice.



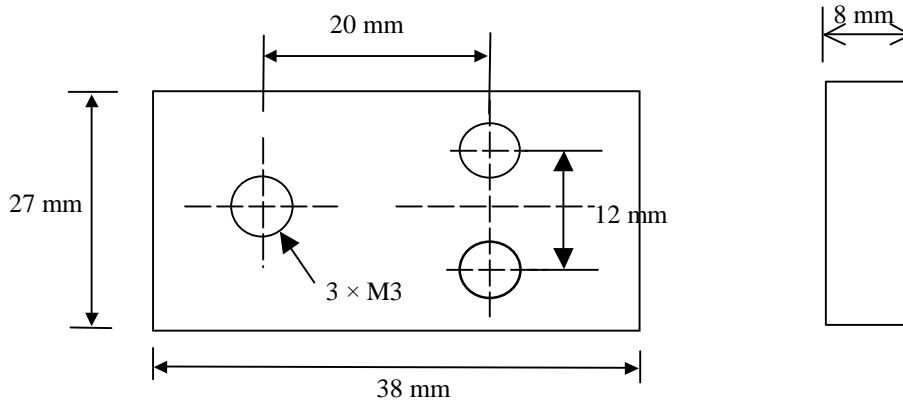
Electronic Connection:

nxSpector comes with a cable (1.25 meters) that provides USB connector to computer and 12v DC power supply. The synch output is optional.



Mechanical connection:

nxSpector is connected via a rectangle handler*:



Three M4 holes are made for fastening the sensor and the mid-point of two holes at right is approximately aligned with Z axis of sensor's local coordinate system.

*Customized handlers are available upon request.

