LASERPRO

SWIR Camera + High performance laser beam Profiler Software

975nm PM.tif   640×480×16bit   174.7×174.7nm/px   −   +   300%
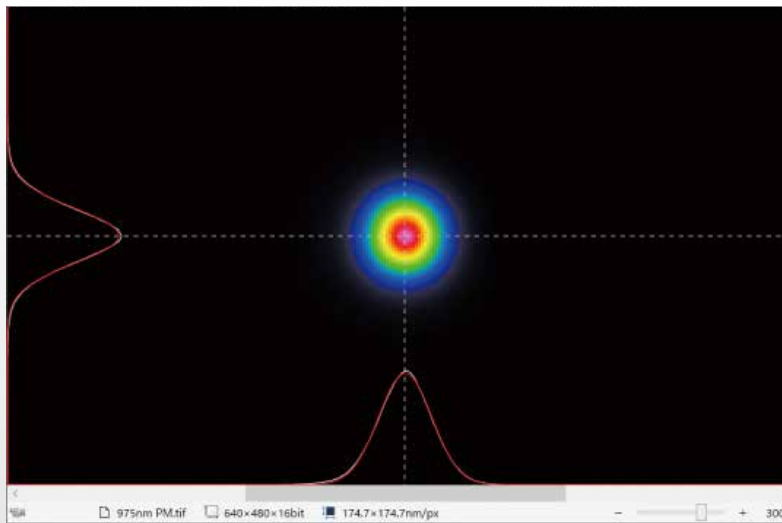
LASERPRO is an advanced pinpoint accurate laser beam profiling package that provides researchers, scientists and professionals an all in one robust laser beam management system with an ultra sernsitive, high performance SPI SWIR camera and an intuitive software suite.
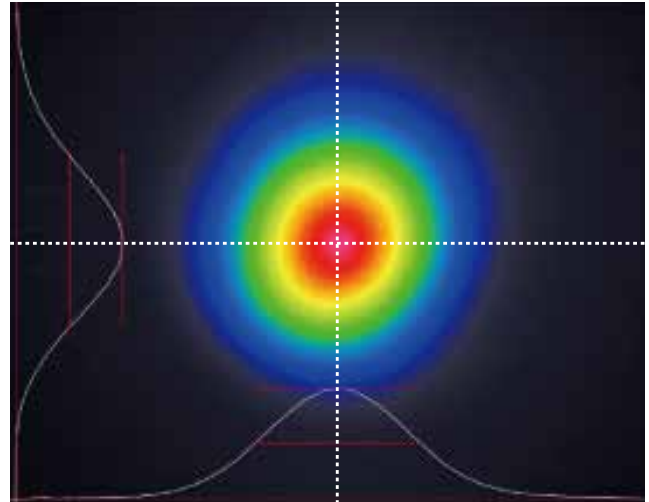

SWIR Camera

PC

Gigabit Ethernet
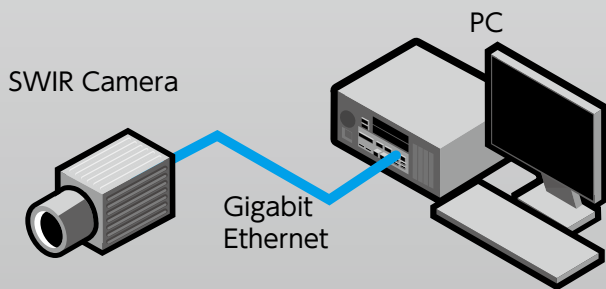
■ Features

● Ribbon User Interface
● Image Logging function
● Measurement of the beam pointing time-dependent stability
● Beam spreading analysis
● Histrogram
● Measurement of the spatial intensity distribution of the beam
● Easy measurement of beam diameter
● Measurement of beam quality
● Micro-beam(100μm5mm) measurements available
● Micro-beam(smaller than 100 μ m) measurement available(Option)
● Real-time image averaging function
● Real-time contrast adjustment function (16bit, 65536tone, wide dynamic range)
● Image buffer function (able to sequentially display multiple images stored in memory)
● TIFF format image storage format
● Smooth display function by hardware acceleration
● Supports 32bit and 64bit Windows

SPI CORP ADVANCED ELECTRO OPTICS

■ Analysis functions

● Line Profile

Line profile display on cross-lines (with Gauss, Lorentz and Sech functions fitting, and FWHM analysis function)

● Integration Profile

Displays averaged profile in the horizontal and vertical direction

● Maximum Intensity Projection

Display orthogonal projection (maximum value) of the profile in horizontal and vertical directions (with analysis functions similar to the Line profile)

● Point-Point Distance

Measurement of the distance between any two points on the screen

● Peak Integration

Analysis of the integrated value in a circle and analysis of the light intensity on the cursor setting the outside of the circle as a background

Line profile of far-field pattern laser in SWIR range

■ Measurement By LaserPRO

$M^2_x = 1.0$
$M^2_y = 1.0$
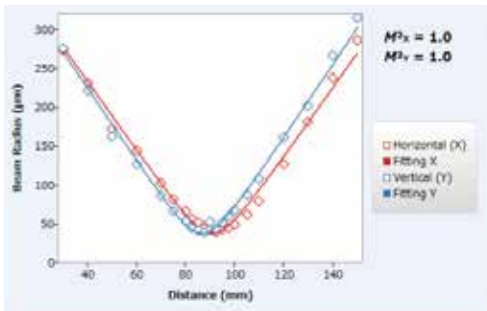
■ Recommended Working Environment

● Windows 7

● Windows 8、Windows 8.1

● Windows 10

● CPU speed: similar or better than Intel Core i3 2GHz.

● Memory : 512MB or higher

※ NET Framework 4.5 or higher reccoemended

**SPI EX/QVGA
SWIR CAMERA**