

# BeamPro

The Femto Easy *BeamPro* takes advantage of our user-friendly software, and provides thorough analysis and statistics of your laser beam. The *BeamPro* software uses standard communication protocols. It is therefore easily integrable in more complex environments. Several *BeamPro* can be controlled from a remote screen through networks. They are suitable for wavelength from 190 to 1100 nm and beams as large as 11 mm. There are also high resolution models with pixels as small as 1.85  $\mu\text{m}$  for focused beam measurements.



## Key features

- Compact design
- Marker indicating the chip location
- Two wavelength ranges available
- Neutral density filters available
- C-mount
- Custom sensor design available
- Windowless options available

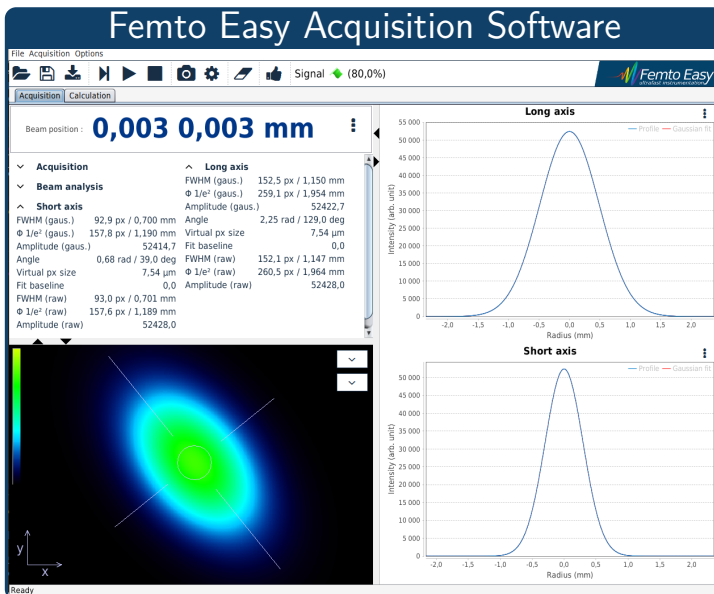
## High resolution for focused beam measurements

Models	BP 6.4	BP 7.5	BP 7.6	BP 13.9
Spectral Range (nm)	350-1100 190-1100 with UV option			
Sensor size (mm)	5.6x4.2	7.4x4.9	7.4x5.5	13.1x8.7
Sensor format	1/2"	1/1.8"	1/1.7"	1"
Resolution	2560x1920 5 Mpx	3072x2048 6 Mpx	4000x3000 12 Mpx	5472x3648 20 Mpx
Pixel size ( $\mu\text{m}$ )	2.2	2.4	1.85	2.4
Minimum beam diameter ( $\varnothing 1/e^2$ , $\mu\text{m}$ )	18	20	15	20
Maximum acquisition framerate <sup>1</sup>	15	59	31	18
Exposure time min-max (ms)	0.031-2745	0.008-30000	0.010-30000	0.067-30000
Dynamic (dB)	60	73	70	72
Sensor type	CMOS 12 Bit			
PC interface	USB 3.1			
Synchronization	Yes			
Dimensions (mm)	36.1 x 39 x 46.1			

<sup>1</sup>Depending on the type of calculation, the framerate may vary.

## Large sensor size for collimated beam measurements

Models	BP 8.7	BP 11.7	BP 11.11	BP 14.10
Spectral Range (nm)	350-1100 190-1100 with UV option			
Sensor size (mm)	8.4x7.1	11.2x7.0	11.2x11.2	13.8x10.35
Sensor format	2/3"	1/1.2"	1"	1.1"
Resolution	2448x2048 5 Mpx	1920x1200 2.3 Mpx	2048x2048 4.2 Mpx	4096x3000 12.3 Mpx
Pixel size ( $\mu\text{m}$ )	3.45	5.86	5.5	3.45
Minimum beam diameter ( $\emptyset 1/e^2$ , $\mu\text{m}$ )	28	48	45	28
Maximum acquisition framerate <sup>1</sup>	35	41	40	10
Exposure time min-max (ms)	0.013-30000	0.02-3900	0.04-500	0.022-30000
Dynamic (dB)	71	70	58	72
Sensor type	CMOS 12 Bit			
PC interface	USB 3.1			
Synchronization	Yes			
Dimensions (mm)	36.1 x 39 x 46.1			



### Software designed by users for users

- Live extraction of beam properties:
  - Short and long axis diameter (FWHM,  $\emptyset 1/e^2$ )
  - Beam angle
- Enhanced background & hotspots treatment
- High framerate, even at the highest resolution
- Client/Server interface, allowing remote control through network.
- All datas are exportable into most common formats.