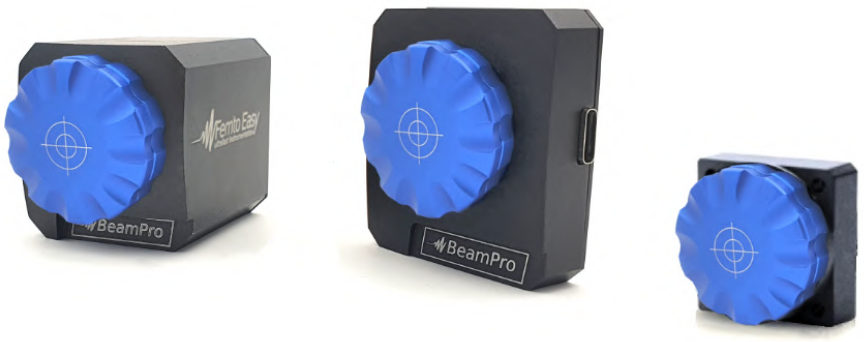
BeamPro *Compact*

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 most complex environments. Several BeamPro can be controlled from a remote screen through the network. They are suitable for wavelengths from 190 to 1100 nm and beams as large as 12 mm. There are also high resolution models with pixels as small as 1.67 µm for focused beam measurements.



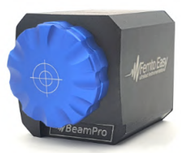
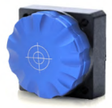
Key features

- Compact design
- User-friendly and powerful software
- High resolution (up to 20 Mpx)
- Small pixel size (down to 1.67 µm)
- Large sensor size, up to 12 mm
- C-mount or SM1 (adapter included)

Options

- Windowless
- UV extension (down to 190 nm)
- Additional ND filters
- Custom version on request
- High Dynamic Range
- Vacuum compatible versions (not available for all models)
- Trigger

Specifications

	C-mount								Low Profile				µ-BeamPro					
Format																		
Models	**BP7.5**	**BP7.6**	**BP8.7**	**BP11.7**	**BP11.11**	**BP12.12**	**BP13.9**	**BP14.10**	**LP4.3**	**LP5.4**	**LP7.5**	**LP6.4-U2**	**µ-BP4.2**	**µ-BP5.4**	**µ-BP6.4**	**µ-BP7.4**	**µ-BP7.5**	**µ-BP8.4**
Spectral range (nm)	375 – 1100 190 – 1100 with UV option								375 – 1100 190 – 1100 with UV option				375 – 1100 190 – 1100 with UV option					
Sensor size (mm)	7.4 x 4.9	7.4 x 5.5	8.5 x 7.1	11.2 x 7.0	11.2 x 11.2	12.3 x 12.3	13.1 x 8.7	13.8 x 10.3	3.9 x 2.9	5.0 x 3.7	7.1 x 5.3	6.4 x 4.6	4.2 x 2.4	4.8 x 3.7	5.7 x 4.3	6.6 x 4.2	7.2 x 5.4	7.7 x 4.3
Sensor format	1/1.8”	1/1.7”	2/3”	1/1.2”	1”	1.1”	1”	1.1”	1/3.6"	1/3"	1/1.8"	1/2"	1/3.7"	1/3"	1/2.5"	1/2.3"	1/1.8"	1/1.8"
Resolution	3088 x 2076 6.4 Mpx	4000 x 3000 12.0 Mpx	2456 x 2054 5.0 Mpx	1920 x 1200 2.3 Mpx	2048 x 2048 4.2 Mpx	4504 x 4504 20.2 Mpx	5472 x 3648 20.0 Mpx	4096 x 3000 12.3 Mpx	808 x 608 0.5 Mpx	1448 x 1086 1.6 Mpx	2056 x 1542 3.2 Mpx	3480 x 2748 10.6 Mpx	1920 x 1080 2.0 Mpx	1280 x 960 1.2 Mpx	2592 x 1944 5.0 Mpx	1920 x 1200 2.3 Mpx	1600 x 1200 2.0 Mpx	3840 x 2160 8.3 Mpx
Pixel size (µm)	2.40	1.85	3.45	5.86	5.50	2.74	2.40	3.45	4.80	3.45	3.45	1.67	2.20	3.75	2.20	3.45	4.50	2.00
Shutter type	Rolling	Rolling	Global	Global	Global	Global	Rolling	Global	Global	Global	Global	Rolling	Rolling	Global	Rolling	Global	Global	Rolling
Minimum beam diameter (Ø FWHM, µm)[1]	12	9	17	29	27	14	12	17	24	17	17	8	11	19	11	17	23	10
Maximum acquisition frame rate (fps)[2]	59	31	36	47	80	18	18	23	135	230	57	3	15	54	14	160	60	45
Exposure time min (µs)	8[3]	10[3]	27	20	40	20	67[3]	22	46	17	24	340[3]	31[3]	30	52[3]	17	20	80[3]
Exposure time max (s)	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Dynamic (dB)	73	70	73	70	58	71	72	72	55	71	72	58	58	58	58	71	49	71
Sensor type	CMOS								CMOS				CMOS					
Bit depth	12								10	12			12					
PC Interface	USB 3.1								USB 3.1			USB 2	USB 3.1					
Synchronization	Yes[4]								Yes[4]				Yes[4]					
Dimensions (mm)	36 x 39 x 46								40 x 45 x 12.5				33 x 29 x 10.5					

[1] The minimum beam diameters are specified for a precision of measurement better than 1%. Smaller beam diameter can be measured but the error will progressively increase
[2] Depending on the type of calculation, frame rate may vary
[3] Due to rolling shutter, the actual minimum exposure time to capture the whole beam will be limited by the beam size. The larger the beam, the longer the required minimum exposure time
[4] Requires the Trigger option

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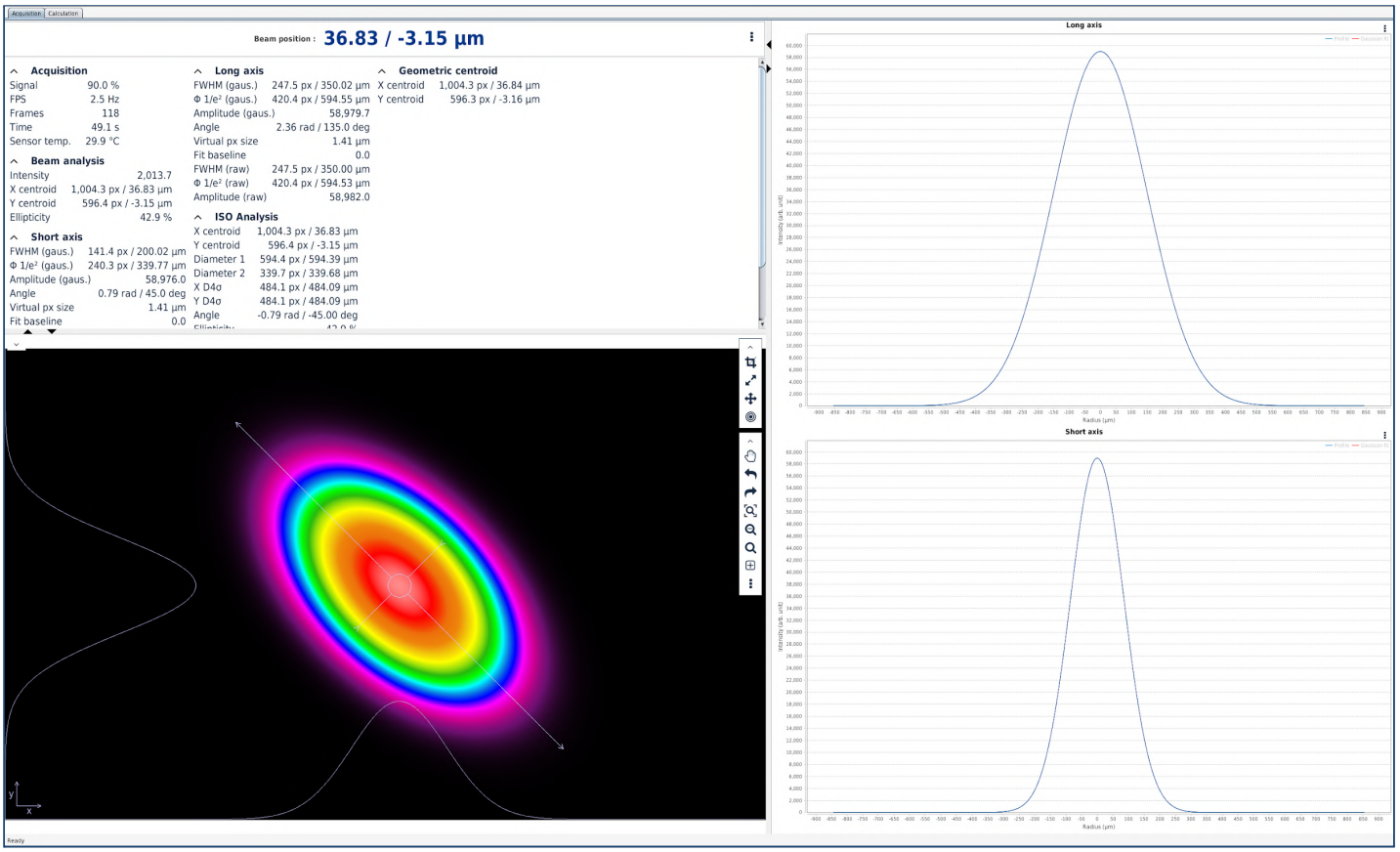
STAR Software

Thanks to a highly optimized C++ and Java architecture, the STAR software is fast, touchscreen-enabled, intuitive and user-friendly.



- Live extraction of beam properties, even with resolutions larger than 20 Mpix
- Several parameters and methods supported (ISO calculation included)
- Enhanced background & hot pixels treatment, for optimum dynamic and signal to noise ratio
- Client / Server interface, allowing remote control through network
- Advanced logging and permanent access to 10 last acquisitions
- Live comparison with up to 10 different reference acquisitions
- 1-click, completely configurable, export assistant

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