



REAL TIME MEASUREMENT AND CONTROL OF YOUR
ULTRAFAST LASER AMPLIFIER

b·shot



Sphere Ultrafast Photonics
Rua do Campo Alegre, 1021 - Edifício FCC
4600-007 Porto - Portugal
sales@sphere-photonics.com

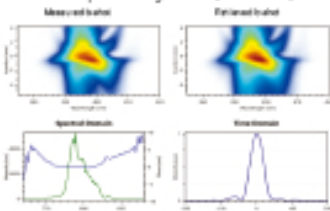
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The b-shot is a compact, user-friendly system for measuring ultrafast laser pulses across a broad range of repetition rates, from single-shot to MHz. Beam coupling to the b-shot takes just a few minutes, and the system delivers real-time, video-rate measurements. Its intuitive trace offers immediate visual feedback, enabling rapid optimisation of your laser source or experiment. The b-shot is ideal for real-time alignment and fine-tuning of laser systems, pulse shaping,

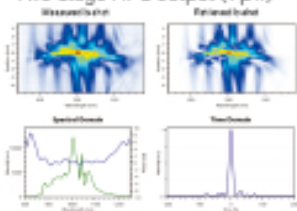
pulse post-compression or for monitoring the pulse temporal profile and duration after spectral broadening stages. Its proprietary retrieval algorithm enables fast, accurate reconstruction of the full electric field, making the b-shot a powerful tool for advanced ultrafast diagnostics. Combining precision, speed, and simplicity, the b-shot makes pulse characterisation easy and efficient in both laboratory and industrial environments.

Amplified system (800 nm)



(top) Measured and retrieved Intensity traces. (bottom left) retrieved spectrum (green), retrieved spectral phase (blue). (bottom right) Retrieved temporal profile (800 fs @ 100 kHz).

Two-stage MPC output (1 μ m)



(top) Measured and retrieved Intensity traces. (bottom left) retrieved spectrum (green), retrieved spectral phase (blue). (bottom right) Retrieved temporal profile (220 fs @ 100 kHz).

The b-shot is a compact and robust device enabling single-shot and real-time visualization of your femtosecond laser pulses.

TECHNICAL SPECIFICATIONS

	b·shot	
Wavelength range	650-1000 nm	700-1400 nm
Pulse duration (FWHM)	10 fs to 50 fs	
Chirp range	± 1000 fs ² /nm	
Repetition rate	single shot - 10-MHz	
Input polarization	Linear	
Input aperture diameter	2 mm	
Input energy	>10 μ J	
Dimensions (WxDxH)	220 x 162 x 98 mm	

(gpm, resolution, bandwidth, maximum resolution) are much lower if the system is used with the external probe of the system.

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Compact and robust, b-shot offers solutions for different wavelength ranges, chirp ranges, repetition rates, and more.