

QSA

Single-Shot Autocorrelator

The QSA-800-20f can be used to measure the pulse width of ultra-short ultra-intense lasers. Measure pulse width from 20 fs-1000 fs. Compact in size and simple to operate, it is suitable for real-time measurement or online detection of pulse width.



Product Features

- Compact size, calibration-free, easy to operate, easy to embed and use in large systems
- Measure single-shot pulses
- Easy to adjust the input light intensity due to built-in adjustable filter, measure pulse width down to micro-Joules pulse
- Realize long-term monitoring of pulse width. Stability, average value can be viewed at any time
- Customer-specified central wavelength and pulse duration
- The software interface is easy to operate, it makes it easy to export data charts

Typical Applications

• Femtosecond laser pulse width measurement



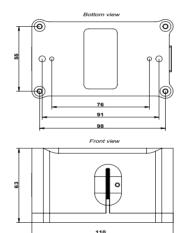


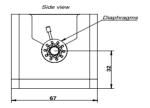


	QSA-800-20f		
Wavelength range	700-900 nm		
Measurable pulse widt ¹	20-100 fs		
Pulse width resolution	0.5 fs		
Input laser repetition rate	single shot - GHz		
Energy density	0.2-0.7 mJ/cm ²		
Input beam dimension	2-10 mm		
Input laser polarization	level		
Detector	CMOS 10 bit		
Interface	USB 3.1		
Dimensions	110 mm*67 mm*63 mm		

¹ QSA-800-100f product pulse width measurement range is 100fs-1000fs, please contact me for details.

External Dimensions





Dimensions of QSA

Typical Data



QSA software interface



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QDG24

Delay signal generator

The QDG24 digital delay signal generator generates 24 independent pulses from input delay data based on internal or external clock signals. It can be set to generate a delay of up to 1 s with a maximum accuracy of 10 ps and less than 30 ps of channel-to-channel jitter.

The setting of all parameters can be set remotely via the instrument panel touch screen or USB/LAN connection to a computer.

Product Features

- 24 independent delay channels, accuracy:10 ps, timing jitter:30 ps
- 6 repetition rate settings
- Supports external TRIG triggering
- Supports single or multiple pulse outputs
- Supports panel touch screen setup or remote setup
- Supports 4-way fault input latch-up control
- Support 2 alarm outputs
- Supports USB or LAN interface



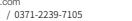
Typical Applications

- Ultrafast laser systems
- Accurate pulse synchronization
- Instrumentation
- Timing control





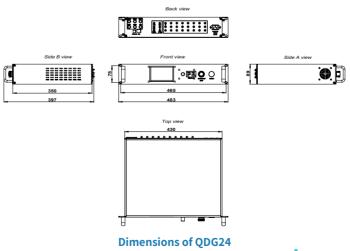






Clock reference	QDG24			
Internal clock	100 MHz \pm 0.5 ppm	ТСХО		
Input clock repetition rate	10~100 MHz	≥300 mV, impedance1 kΩ		
Delayed output				
Total number of channels	24			
High-precision channels	12 most 24			
High precision accuracy	10 ps			
Low precision channels	12 most 24			
Low precision accuracy	10 ns			
Delay	0~1000 ms			
Pulse width	100 ns~150 ms			
Repetition rate	0.1 Hz~100 kHz			
High-precision channel-to-channel jitter	≤30 ps	8 h@25 °C		
Low precision channel-to-channel jitter	≤100 ps	8 h@25 °C		
Output	5.0 V@1 M Ω impedance;2.5 V@50 Ω impedance			
Rise time	1.5 ns typical value			
Power supply and interface				
Power supply	220V AC (100~270V AC),50/60 Hz	≤50 W		
Touch screen	4.3 inch capacitive touch screen resolution 800*480			
USB	1个	instrument configuration		
Ethernet LAN	1个 instrument configuration or system co applications			
Switching input	4个	fault latch-up interlock signal		
Switching output	2个	fault output indication		

External Dimensions









QPP

High performance electro-optic modulator

The QPP electro-optic modulator selects a single pulse from a femto-second pulse train. It is often used to control the time of femtosecond amplifier pulses in and out of the cavity, and can also clear the prepulse before the amplification pulse to improve nanosecond time contrast. The miniaturized multi-channel electro-optic modulator with the related electronic control unit can remotely control the pulse in and out of the cavity time in the mobile phone APP, which is an ideal choice for laser integrated systems.

Product Features

- Suitable for 20-120 MHz femtosecond oscillators
- Used for laser pulse export, pulse radio selection, repetition rate adjustment
- •Transmittance > 90%, contrast > 1500:1
- Rising/falling edge (10%-90%): 4 ns
- Multi-channel switching time via APP remote control
- Customer-specified the dimensions of system



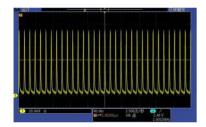


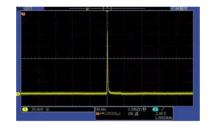


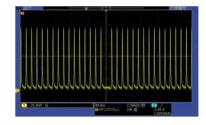


Crystal type	DKDP	
Operating wavelength	510-540 nm / 700-1000 nm / 1000-1100 nm	
Channel	1/2/4, controlled individually	
Transmittance	> 90%	
Repetition rate	1 Hz-1 kHz	
Clear aperture	6 mm or customizable	
Clear aperture height	40 mm or customizable	
Rising/falling edge (10%-90%)	< 4 ns	
contrast	1500:1	
Controller high voltage	Max 7 kV	
External trigger voltage	TTL high potential 2 V (min.) TTL low potential 0.8 V (max)	
Grand prism (optional)	650-1000 nm transparency, contrast ratio > 10⁵:1	
Dimensions	83 mm*59 mm*58 mm	

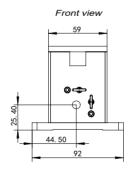
Typical Data

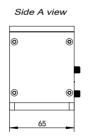


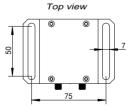




External Dimensions







Dimensions of QPP









Triones

High quality flexible optical adjustment frames

Triones high-quality flexible optical adjustment frames, specially designed for users with long-term strict stability requirements and compact environment, suitable for laser system construction, high-precision optical path design and other application scenarios. The optical adjustment frames is made of special stainless steel material integrated to provide two-dimensional degree of freedom adjustment, and the whole adopts metal flexible structure design, which effectively avoids the problem of imbalance deformation caused by spring failure of the traditional adjustment frame.

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Product Features

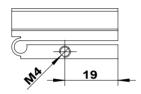
- Special stainless steel material + flexible structure = Ultra-low deformation is guaranteed
- Compact, Ultra-thin design
- Double-sided installation available
- Accept customized parameters
- · Compatible with high vacuum environments



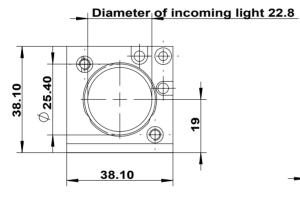


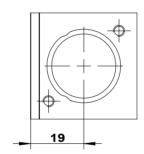
Model	Triones-1/2	Triones-1	Triones-2	Triones-3	Triones-4
Suitable lens size: inch	0.5	1	2	3	4
Size:mm	23.5*23.5	38.1*38.1	63.5*63.5	101*101	127*127
Light height:mm	11.75	19	31.75	50.5	63.5
Thickness:mm	16.1	16.1	31.75	47.5	49.2
Center transmittance aperture: mm	10.8	22.8	48.2	72.3	96.5

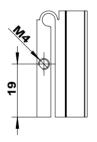
External Dimensions



Triones-1 Frame size diagram







Forward installation/adjustment

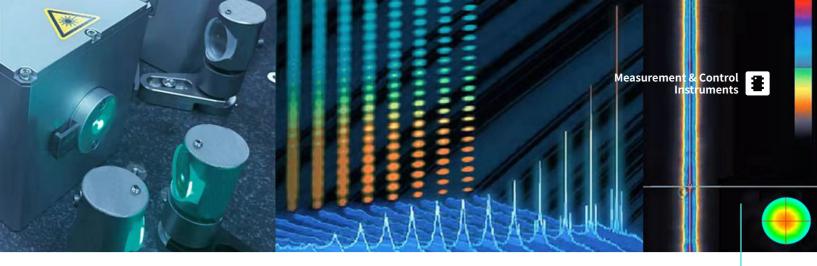
Reverse installation/adjustment

Dimensions of Triones-1





Henan QiFeng Newlight Source



M-SS-CL

Stainless steel water-cooled optical adjustment frames

M-SS-CL high-quality water-cooled optical adjustment frames, specially designed for users who need temperature control for frames or lenses, suitable for laser system construction, high-precision optical path design and other application. The optical adjustment frames is made of special stainless steel material, providing two-dimensional degree of freedom adjustment, M-SS-SL optical frame adopts metal flexible structure design, one U-shaped waterway is drilled inside the bulk, which effectively avoids the imbalance deformation caused by the spring failure of the traditional adjustment frame and the drift problem caused by poor heat dissipation.

Product Features

- Cool lenses and frames, precise temperature control
- Special stainless steel material and flexible structure to ensure ultra-low deformation
- Compact, ultra-thin design
- · Accept customized parameters
- Compatible with high vacuum environments



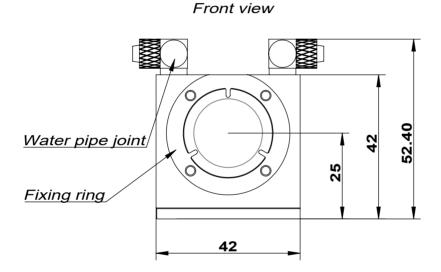


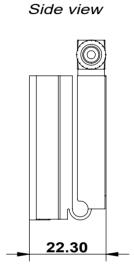


Newlight Source

Model	M-SS-CL-1	M-SS-CL-2	
Suitable lens size: inch	1	2	
Size: mm	42*42	65*65	
Mini light height: mm	25	38	
Thickness: mm	22.3	26.5	

External Dimensions





Dimensions of M-SS-CL-1





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Henan QiFeng Newlight Source