



## SmartPicker Series - EOM

- PULSE SELECTION • PULSE GENERATION • PHASE CONTROL
- LASER POWER CONTROL • PHASE CONTROL LASER STABILIZATION

The pulse selector EOM of SmartPicker series is an ideal, easy to use signal generator with high stability and sensitivity.

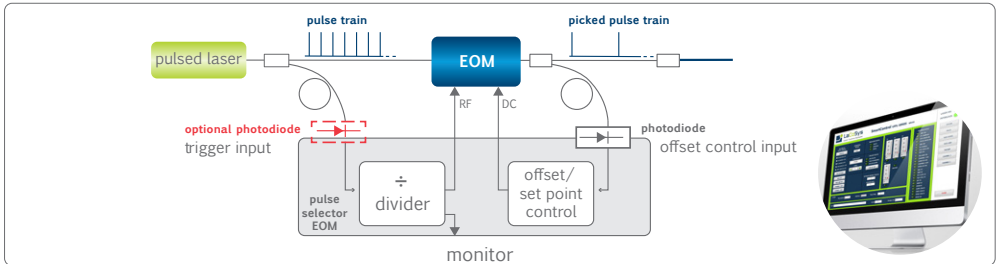
The pulse selector generates a low-jitter synchronous control signal for electro-optical modulators.

A perfectly tuned software in combination with state-of-the-art microprocessors allows easy adjustment of delay, pulse width and control parameters. The pulse selector is able to process signals up to 200MHz. The monitor function allows an easy control of the signal path. The available divider ranges allow a wide adjustment range for the output repetition rate.

# SmartPicker Series - EOM

## FEATURES

- Automatic working point stabilization
- SMA or build-in photodiode
- EOM-RF up to 5Vpp
- EOM-DC out  $\pm 10V$
- Input frequency up to 200MHz
- Full software control (USB)
- Variable trigger level (10mV ... TTL)
- Trigger / Gate function
- PCB – version on request
- Fully configurable PID and fuzzy controller
- 2-Stage drift compensation
- Easy-to-use software interface
- X-Series with high speed and high resolution



example

## SPECIFICATIONS

	STANDARD	X-SERIES
Offset control input:	Photodiode	Photodiode
Sensitivity range:	20nW ... 10mW	20nW ... 10mW
Max. trigger frequency:	200MHz	200MHz
Max. output frequency:	40MHz	<b>100MHz</b>
Trigger input:	SMA (50 $\Omega$ ) (optional PD)	SMA (50 $\Omega$ ) (optional PD)
RF fall / rise time:	< 5ns	<b>&lt; 3ns</b>
RF output current:	100mA @ 5,5Vpp (50 $\Omega$ )	100mA @ 5,5Vpp (50 $\Omega$ )
Pulse width range:	4ns ... 1ms (0,25ns resolution)	<b>3,8ns ... 14ns (0,01ns resolution)</b>
Delay range:	12ns .. 1ms	12ns .. 1ms
DC output:	+/- 10V	+/- 10V
DC output impedance:	1k $\Omega$	1k $\Omega$
Monitor output:	TTL (100mA@50Ohm)	TTL (100mA@50Ohm)
Input voltage:	24VDC	24VDC

