



TriggerScope Mini

Compact Microscopy Automation

4 DAC | 4 TTL | 1 Trigger | MicroManager Native

\$1,500

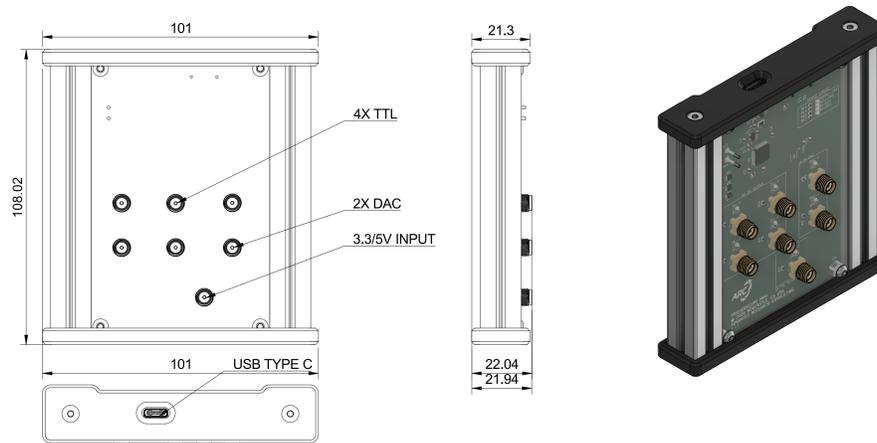
The TriggerScope Mini brings hardware-timed DAC and TTL control to any microscope at an accessible price. Native MicroManager compatibility, 4 analog outputs, 4 digital outputs, and a trigger input — professional-grade synchronization in a compact, USB-powered package.

<p>■ MicroManager Native</p> <p>Same driver as the TriggerScope 4. No plugins, no adapters. If your software sees a TriggerScope, it sees the Mini.</p>	<p>■ 4-Channel 12-bit DAC</p> <p>Four 0–5V analog outputs via AD5684R. Drive LED controllers, AOTFs, piezo stages with 12-bit precision.</p>
<p>■ 4 TTL Digital Outputs</p> <p>Level-shifted 5V TTL for camera triggering, shutter control, and device sync. Microsecond timing.</p>	<p>■ Sequencing & Blanking</p> <p>250 programmable states per channel. Trigger-gated blanking protects samples between exposures.</p>
<p>■ Compact & USB-Powered</p> <p>Single USB cable for power and data. No external supply, no rack mount, no bench clutter.</p>	<p>■ Upgrade Path to TS4</p> <p>Transition to TriggerScope 4 (16 DAC + 16 TTL) with zero software changes. Same protocol, same workflow.</p>

Technical Specifications

Parameter	TriggerScope Mini	TriggerScope 4
Analog Outputs	4 ch, 12-bit (0–5V)	16 ch, 16-bit (multi-range)
Digital Outputs	4 TTL (5V)	16 TTL (5V)
Trigger Inputs	1	Multiple
Sequencing	250 states/ch, blanking	1000+ states/ch, blanking
Interface	USB-C (bus-powered)	USB (ext. supply)
MM Driver	Native (shared)	Native (shared)
Price	\$1,500	Contact for quote

Mechanical Overview



101 mm × 108 mm × 22 mm | USB Type-C | All dimensions in mm

"Plug in. Launch MicroManager. Start imaging."

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Most orders ship within one week. Volume and academic pricing available.