Configuration guide
Three Moku Time & Frequency Analyzer setups

Frequency counter
Clock and timing analysis

1. Set the trigger threshold of Event A to where the signal is steepest on your waveform.

2. Set the event to detect rising edges.

3. Set Interval A to measure from Event A to Event A.

Event A	
Source	Input 1 ▼
DC : 1 MΩ : 4 Vpp	
Threshold	400.0 mV
Edge	Rising ▼

Interval A	
Start	Event A ▼
Stop	Event A ▼

Time-to-voltage converter
Pulse-width modulation decoding

Output 1	
Signal	Interval ▼
Zero point	0.000 s
Scaling	1.000 kV/s
Invert	
Range	2 Vpp ▼

1. In the TFA Events tab, configure the desired event detection parameters.

2. In the TFA Output tab, set the desired interval scaling (MV/s, KV/s, V/s) or count scaling (V/cnt, mV/cnt, nV/cnt). Then, turn on the output.

3. Pair this with the PID Controller in Multi-instrument Mode for a closed-loop feedback system.

Photon counter
Hanbury-Brown-Twiss (HBT) experiments

1. Set the acquisition mode to continuous.

2. Set the trigger threshold of Event A and Event B to match your photodetector's pulses.

3. Set the event to detect pulses on a rising edge.

4. Set Interval A to measure from Event A to Event B.

Event A	
Source	Input 1 ▼
DC : 1 MΩ : 400 mVpp	
Threshold	4.000 mV
Edge	Rising ▼

Event B	
Source	Input 2 ▼
DC : 1 MΩ : 400 mVpp	
Threshold	4.000 mV
Edge	Rising ▼

Interval A	
Start	Event A ▼
Stop	Event B ▼