

ISOVU™

Isolated Probes

COMPLETE
ISOLATION.

EXTREME
COMMON MODE REJECTION.



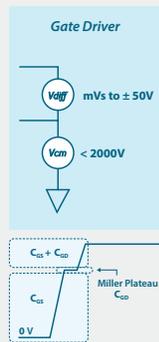
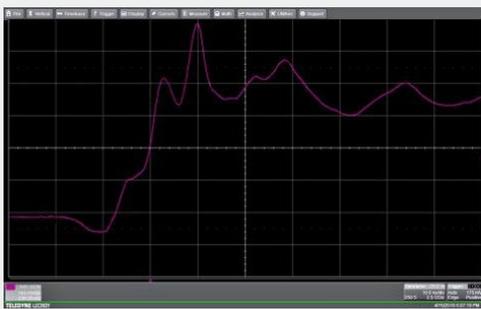
IsoVu probe technology delivers accurate differential measurements up to ± 2500 V on reference voltages slewing ± 60 kV at 100 V/ns or faster. Offering complete optical isolation, IsoVu probes reveal signals hidden by common mode noise. They're the industry's first measurement solution to offer a unique combination of high bandwidth, dynamic range, and best-in-class common mode rejection ratio (CMRR) over the probe's full bandwidth.

- An electro-optic sensor converts the input signal to optical modulation.
- The device-under-test is galvanically isolated from the oscilloscope.
- Common mode voltage does not derate over bandwidth
- Incorporates four separate lasers, an optical sensor, power over fiber, four optical fibers, and sophisticated feedback and control techniques.

Now in their second generation, IsoVu probes offer technical improvements over the first IsoVu generation, including:

- Size reduction of 80% to reach measurement points that were previously inaccessible—and without a separate controller box.
- Improved DC accuracy, enhanced gain accuracy, and improved temperature drift correction.
- Superior sensitivity and lower common mode noise to reveal the true signal.
- Higher performance with a variety of connections and accessories that offer high performance and accessibility.

Overcoming the challenge of designing "blind"

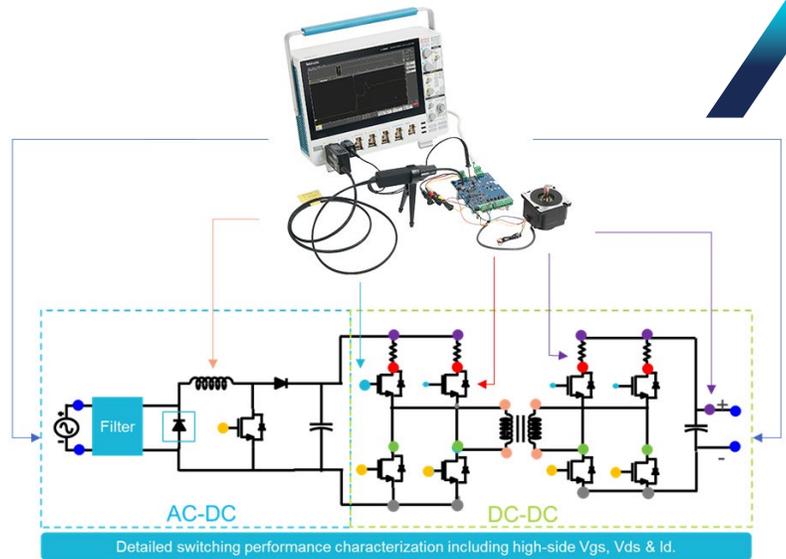


Before IsoVu technology, engineers were forced to rely on simulation, workarounds, or inferences (forced to measure to ground). Conventional differential probing systems don't have the required combination of bandwidth and common mode rejection.

IsoVu rejects common mode interference, so you can see the true differential signal. With IsoVu technology, you get accurate, repeatable measurements and meaningful correlation with expected performance.

CUTTING EDGE ISOLATED MEASUREMENTS FOR THE ENTIRE POWER SYSTEM DESIGN MARKET

If you're working with wide-bandgap technologies such as SiC and GaN, it can be difficult to accurately measure and characterize devices due to the higher frequencies and switching speeds involved. By galvanically isolating the probe from the oscilloscope, IsoVu probes have completely changed how power researchers and designers make wide bandgap power measurements.



KEY APPLICATIONS

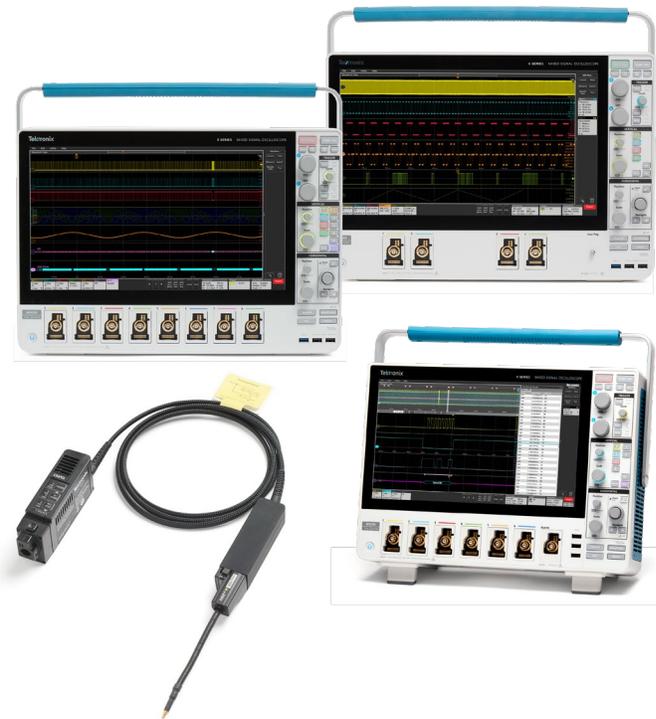
- Half/full bridge design using SiC or GaN, FETs, or IGBTs
- Floating measurements
- Power converter design
- Power device evaluation
- Switching power supply design
- Inverter design
- Motor drive design
- Electronic ballast design
- EMI and ESD troubleshooting
- Current shunt measurements

	TIVP1	TIVP05	TIVP02
Bandwidth	200 MHz	500 MHz	1 GHz
Attenuators	1x / 10x / 50x / 100x / 500x		
Cable Length	2 meters	2 meters	2 meters
Rise Time	450 ps	850 ps	2 ns
Common Mode Voltage Range	60 kV peak		
CMRR	DC: 160 dB 100 MHz: 100 dB 200 MHz: 100 dB		

IsoVu Isolated Probes can be used with the following Tektronix oscilloscopes. Oscilloscope software version 1.28 or higher is required.

- [4 Series MSO Mixed Signal Oscilloscope](#)
- [5 Series MSO Mixed Signal Oscilloscope](#)
- [5 Series MSO Low Profile](#)
- [6 Series MSO Mixed Signal Oscilloscope](#)

Please contact your local Tektronix representative to inquire about oscilloscopes not included in this list.



Learn more about IsoVu Isolated Measurement Systems at tek.com/isolated-measurement-systems.

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