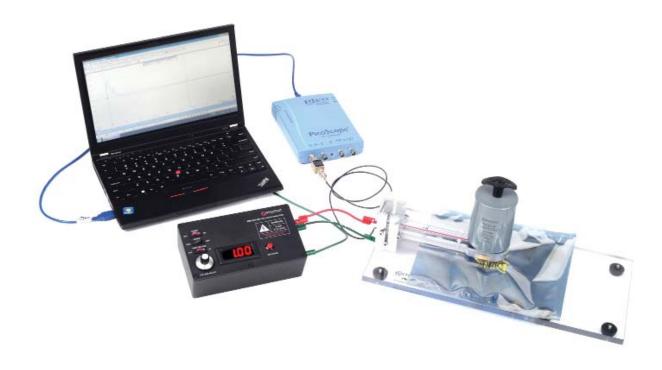


Shielded Bag Test Kit PBT-531

Data Sheet

Electrostatic Shielded Bag Testing per ANSI/ESD STM11.31 and IEC 61340-4-8

The PBT-531 is a complete system kit designed to evaluate the performance of electrostatic discharge shielded bags and other packaging materials. The portable shielded bag test system is capable of calculating the energy of the discharge pulse inside the shielded bag in accordance with ANSI/ESD STM11.31 and IEC 61340-4-8.





Data Sheet

Specifications for the PBT-531 Shielded Bag Test Kit

Discharge Output Adjustable up to 4kV Power Supply Output Adjustable up to 4kV Power Supply Accuracy ±2% Discharge Waveform ANSI/ESD STM11.31 Rise time @ 01: <10 nsec @ 500 ft; ≥20 nsec Ringing <15% Power ANSI/ESD STM11.31 Batteries 200 ft; ≥20 nsec Ringing <15% Power Burghy Accuracy Batteries 4 each AA 2600 mAh low self-discharge, Rechargeable, Nickel-Metal Hydride Battery Power Supply; From 90VAC to 264VAC, 47Hz to 63Hz, UL and TUV 60950-1 approved. Battery Life > 100 hours (with average of 50 discharges in 8 hours) Dimensions 7.5° Lx 4.5° W x 2.5° H (19.05cm x 11.43cm x 6.35cm) Weight 2.0 ls (907g) PBF-520 Shielded Bag Fixture Bame Retardant Polycarbonate Surface Resistivity >1x10°1Ω Discharge and Ground Electrodes 1.5° (3.8 cm) brass, gold plated Capacitive Probe 0.830° (2.1 cm) brass, gold plated Capacitive Probe 0.830° (2.1 cm) brass, gold plated Capacitive Probe 0.830° (2.1 cm) brass, gold plated Capacitive Probe 0.850° (2.0 c25cm) - without Base Extension attached Rilgh Vollage Resistor \$10 Ohms, 1% tolerance Support Area Surrounding the Ground 8x10° (20x25cm) - without Base Ext	PDS-510 HBM Discharge Simulator	
Power Supply Accuracy	Discharge Output	Adjustable up to 4kV
Discharge Waveform ANSI/ESD STM11.31 Rise time @ ΩC: <0 nsec @ 500Ω: <20 nsec RIt time @ ΩC: 20 nsec Prover Supply: Prom 90VAC to 264VAC, 47Hz to 63Hz. UL and TUV 60950-1 approved.	Power Supply Output	Adjustable up to 4kV
Discharge Waveform ANSI/ESD STM11.31 \$6 50012: 200 sec Fall time @ 0Ω: 150±15 sec \$50002: 200±20 sec Ringing: 415% Sattery Sattery Sattery Sattery Power Supply: From 90VAC to 264VAC, 47Hz to 63Hz. UL and TUV 60950-1 approved. Power Supply: From 90VAC to 264VAC, 47Hz to 63Hz. UL and TUV 60950-1 approved. Power Supply: From 90VAC to 264VAC, 47Hz to 63Hz. UL and TUV 60950-1 approved. Power Supply: From 90VAC to 264VAC, 47Hz to 63Hz. UL and TUV 60950-1 approved. Power Supply: From 90VAC to 264VAC, 47Hz to 63Hz. UL and TUV 60950-1 approved. Power Supply: From 90VAC to 264VAC, 47Hz to 63Hz. UL and TUV 60950-1 approved. Power Supply: From 90VAC to 264VAC, 47Hz to 63Hz. UL and TUV 60950-1 approved. Power Supply: From 90VAC to 264VAC, 47Hz to 63Hz. UL and TUV 60950-1 approved. Power Supply: From 90VAC to 264VAC, 47Hz to 63Hz. UL and TUV 60950-1 approved. Power Supply: From 90VAC to 264VAC, 47Hz to 63Hz. UL and TUV 60950-1 approved. Power Supply: From 90VAC to 264VAC, 47Hz to 63Hz. UL and TUV 60950-1 approved. Power Supply: From 90VAC to 264VAC, 47Hz to 63Hz. UL and TUV 60950-1 approved. Power Supply: From 90VAC to 264VAC, 47Hz to 63Hz. UL and TUV 60950-1 approved. Power Supply: From 90VAC to 264VAC, 47Hz to 63Hz. UL and TUV 60950-1 approved. Power Supply: From 90VAC to 264VAC, 47Hz to 63Hz. UL and TUV 60950-1 approved. Power Supply: From 90VAC to 264VAC, 47Hz to 63Hz. UL and TUV 60950-1 approved. Power 8000000000000000000000000000000000000	Power Supply Accuracy	±2%
Power Battery Dewer Supply: From 90VAC to 264VAC, 47Hz to 63Hz. UL and TUV 60950-1 approved. Battery Life > 100 hours (with average of 50 discharges in 8 hours) Dimensions 7.5"L x 4.5"W x 2.5"H (19.05cm x 11.43cm x 6.35cm) Weight 2.0 lbs (907g) PBF-520 Shielded Bag Fixture Base Material Flame Retardant Polycarbonate Surface Resistivity 1.5" (3.8 cm) brass, gold plated Capacitive Probe 0.830" (2.1 cm) brass, gold plated Capacitance Nominal 8pF High Voltage Resistor 500 Ohms. 1% tolerance Support Area Surrounding the Ground Electrode 8x16" (20x35cm) - with base Extension attached Electrode 8x15" (20x35cm) - with Base Extension attached Bilectrode 8x15" (20x35cm) - with Base Extension Weight 30 18 (48 cg) - without Base Extension Weight 11"L x 8"W x 4"H - without Base Extension Teltronix** CT1 Current Probe - Includes Attuator Bandwidth 1 GHz Sensitivity (into 50Ω) 5mV/mA Accuracy ±3% Cable Length 40" (1 meter) ProcoScope** Oscilloscope		@ 500Ω : <20 nsec Fall time @ 0Ω : 150±15 nsec @ 500Ω : 200±20 nsec
Dimensions 7.5" L x 4.5" W x 2.5" H (19.05cm x 11.43cm x 6.35cm) Weight 2.0 lbs (907g) PBF-520 Shielded Bag Fixture Base Material Flame Retardant Polycarbonate Surface Resistivity >1x10 ¹³ Ω Discharge and Ground Electrodes 1.5" (3.8 cm) brass, gold plated Capacitive Probe 0.830" (2.1 cm) brass, gold plated Capacitance Nominal 8pF High Voltage Resistor 500 Ohms, 1% tolerance Support Area Surrounding the Ground 8x10" (20x25cm) - without Base Extension attached Electrode 8x15" (20x35cm) - without Base Extension attached Electrode 3.0 lbs (48 oz) - without Base Extension 6"L x 8"W x 1"H - vBlave Extension 6"L x 8"W x 1"H - vBlave Extension Teltronix* CT1 Current Probe - Includes Attenutor Bandwidth 1 GHz Sensitivity (into 50Ω) 5mV/mA Accuracy ±3% Cable Length 40" (1 meter) PicoScope* Oscilloscope Bandwidth 200 MHz Sampling Rate Up to 1 GS per seconds PC Connectivity USB 2.0 (USB 3.0 compatible). USB cab	Power	Battery
Weight 2.0 lbs (907g) PBF-520 Shielded Bag Fixture Base Material Flame Retardant Polycarbonate Surface Resistivity >1x10¹³Ω Discharge and Ground Electrodes 1.5″ (3.8 cm) brass, gold plated Capacitive Probe 0.830″ (2.1 cm) brass, gold plated Capacitive Probe 500 Ohms, 1% tolerance High Voltage Resistor 500 Ohms, 1% tolerance Support Area Surrounding the Ground Electrode 8x10″ (20x25cm) - with base Extension attached Electrode 8x15″ (20x35cm) - with Base Extension attached Electrode 8x15″ (20x35cm) - with base Extension O'L x 8″W x 1″H - Base Extension 1.0 lbs (16 oz) - Base Extension Weight 3.0 lbs (48 oz) - without Base Extension 1.0 lbs (16 oz) - Base Extension 1.0 lbs (16 oz) - Base Extension Tektronix® CTI Current Probe - Includes Attenutor 1.0 lbs (16 oz) - Base Extension Sensitivity (into 50Ω) 5mV/mA Accuracy ±3% Cable Length 40″ (1 meter) PicoScope® Oscilloscope Bandwidth 200 MHz Sampling Rate Up to 1 GS per seconds	Battery Life	> 100 hours (with average of 50 discharges in 8 hours)
PBF-520 Shielded Bag Fixture Base Material Flame Retardant Polycarbonate Surface Resistivity >1x10 ¹¹ Ω Discharge and Ground Electrodes 1.5" (3.8 cm) brass, gold plated Capacitance Nominal 8pF High Voltage Resistor 500 Ohms, 1% tolerance Support Area Surrounding the Ground Electrode 8x10" (20x25cm) - without Base Extension attached Electrode 8x15" (20x35cm) - with base Extension attached Dimensions 11"L x 8"W x 4"H - without Base Extension 6"L x 8"W x 1"H - Base Extension Weight 3.0 lbs (48 oz) - without Base Extension Tektronix" CTI Current Probe - Includes Attenuator Bandwidth 1 GHz Sensitivity (into 50Ω) 5mV/mA Accuracy ±3% Cable Length 40" (1 meter) PicoScope* Oscilloscope Bandwidth 200 MHz Sampling Rate Up to 1 GS per seconds PC Connectivity USB 2.0 (USB 3.0 compatible). USB cable included. Power Requirements Powered from USB port Software Included PicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bit	Dimensions	7.5"L x 4.5"W x 2.5"H (19.05cm x 11.43cm x 6.35cm)
Base Material Flame Retardant Polycarbonate Surface Resistivity >1x10 ¹³ Ω Discharge and Ground Electrodes 1.5" (3.8 cm) brass, gold plated Capacitive Probe 0.830" (2.1 cm) brass, gold plated Capacitance Nominal 8pF High Voltage Resistor 500 Ohms, 18 tolerance Support Area Surrounding the Ground 8x10" (20x25cm) - without Base Extension attached Electrode 8x15" (20x35cm) - with Base Extension attached Dimensions 11" L x 8"W x 4"H - without Base Extension Weight 3.0 lbs (48 co) - without Base Extension **Individual Contract Probe - Includes Attention 1.0 lbs (16 oz) - Base Extension **Bandwidth 1 GHz **Sensitivity (into 50Ω) 5mV/mA **Accuracy ±3% **Cable Length 40" (1 meter) PicoScope® Oscilloscope **Bandwidth 200 MHz **Sampling Rate Up to 1 GS per seconds **PC Connectivity USB 2.0 (USB 3.0 compatible). USB cable included. **Power Requirements Powered from USB port **Software Included PicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit	Weight	2.0 lbs (907g)
Surface Resistivity >1x1013 Ω Discharge and Ground Electrodes 1.5" (3.8 cm) brass, gold plated Capacitive Probe 0.830" (2.1 cm) brass, gold plated Capacitance Nominal 8pF High Voltage Resistor 500 Ohms, 1% tolerance Support Area Surrounding the Ground Electrode 8x10" (20x25cm) - without Base Extension attached Surport Area Surrounding the Ground Electrode 8x10" (20x25cm) - without Base Extension attached Dimensions 11" x x 8" w x "H - without Base Extension Weight 3.0 lbs (48 oz) - without Base Extension Tektronix* CTI Current Probe - Includes Attenuator Bandwidth 1 GHZ Sensitivity (into 50Ω) 5mV/mA Accuracy ±3% Cable Length 40" (1 meter) Picoscope* Oscilloscope Bandwidth 200 MHz Sampling Rate Up to 1 GS per seconds PC Connectivity USB 2.0 (USB 3.0 compatible). USB cable included. Power Requirements Powered from USB port Software Included PicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bit Dimensions 5.6" x 3.6" x 0.75" (142 x 92 x 19 mm)	PBF-520 Shielded Bag Fixture	
Discharge and Ground Electrodes 1.5" (3.8 cm) brass, gold plated Capacitive Probe 0.830" (2.1 cm) brass, gold plated Capacitance Nominal 8pF High Voltage Resistor 500 Ohms, 1% tolerance Support Area Surrounding the Ground Electrode 8x10" (20x25cm) - without Base Extension attached Binensions 11"Lx 8"W x 4"H - without Base Extension attached Weight 3.0 lbs (48 oz) - without Base Extension Weight 3.0 lbs (48 oz) - without Base Extension Tektronix* CT1 Current Probe - Includes Att-nuator Bandwidth 1 GHz Sensitivity (into 50Ω) 5mV/mA Accuracy ±3% Cable Length 40" (1 meter) PicoScope* Oscilloscope Bandwidth 200 MHz Sampling Rate Up to 1 GS per seconds PC Connectivity USB 2.0 (USB 3.0 compatible). USB cable included. Power Requirements Powered from USB port Software Included PicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bit Dimensions 5.6" x 3.6" x 0.75" (142 x 92 x 19 mm)	Base Material	Flame Retardant Polycarbonate
Capacitive Probe 0.830" (2.1 cm) brass, gold plated Capacitance Nominal 8pF High Voltage Resistor 500 Ohms, 1% tolerance Support Area Surrounding the Ground Electrode 8x10" (20x25cm) - without Base Extension attached Butter of Electrode 11"L x 8"W x 4"H - without Base Extension attached Dimensions 11"L x 8"W x 4"H - without Base Extension of "L x 8"W x 1"H - Base Extension Weight 3.0 lbs (48 oz) - without Base Extension 1.0 lbs (16 oz) - Base Extension 1.0 lbs (16 oz) - Base Extension Sensitivity (into 50Ω) 5mV/mA Accuracy ±3% Cable Length 40" (1 meter) PicoScope® Oscilloscope Bandwidth 200 MHz Sampling Rate Up to 1 GS per seconds PC Connectivity USB 2.0 (USB 3.0 compatible). USB cable included. Power Requirements Powered from USB port Software Included PicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bit Dimensions 5.6" x 3.6" x 0.75" (142 x 92 x 19 mm)	Surface Resistivity	$>1 \times 10^{13} \Omega$
Capacitance Nominal 8pF High Voltage Resistor 500 Ohms, 1% tolerance Support Area Surrounding the Ground Electrode 8x10" (20x25cm) - without Base Extension attached Dimensions 11"L x 8"W x 4"H - without Base Extension Weight 3.0 lbs (48 oz) - without Base Extension Tektronix® CTI Current Probe - Includes Attenuator Bandwidth 1 GHz Sensitivity (into 50Ω) 5mV/mA Accuracy ±3% Cable Length 40" (1 meter) PicoScope® Oscilloscope Bandwidth 200 MHz Sampling Rate Up to 1 GS per seconds PC Connectivity USB 2.0 (USB 3.0 compatible). USB cable included. Power Requirements Powered from USB port Software Included PicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bit Dimensions 5.6" x 3.6" x 0.75" (142 x 92 x 19 mm)	Discharge and Ground Electrodes	1.5" (3.8 cm) brass, gold plated
High Voltage Resistor500 Ohms, 1% toleranceSupport Area Surrounding the Ground Electrode8x10" (20x25cm) - without Base Extension attached 8x15" (20x35cm) - with Base Extension attachedDimensions11"L x 8"W x 4"H - without Base Extension 6"L x 8"W x 1"H - Base ExtensionWeight3.0 lbs (48 oz) - without Base Extension 1.0 lbs (16 oz) - Base ExtensionTektronix® CT1 Current Probe - Includes AttenuatorBandwidth1 GHzSensitivity (into 50Ω)5mV/mAAccuracy±3%Cable Length40" (1 meter)PicoScope® OscilloscopeBandwidth200 MHzSampling RateUp to 1 GS per secondsPC ConnectivityUSB 2.0 (USB 3.0 compatible). USB cable included.Power RequirementsPowered from USB portSoftware IncludedPicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bitDimensions5.6" x 3.6" x 0.75" (142 x 92 x 19 mm)	Capacitive Probe	0.830" (2.1 cm) brass, gold plated
Support Area Surrounding the Ground Electrode 8x10" (20x25cm) - without Base Extension attached Dimensions 11"L x 8"W x 4"H - without Base Extension of 6"L x 8"W x 1"H - Base Extension Weight 3.0 lbs (48 oz) - without Base Extension 1.0 lbs (16 oz) - Base Extension 1.0 lbs (16 oz) - Base Extension 1.0 lbs (16 oz) - Base Extension 1.0 lbs (16 oz) - Base Extension Sensitivity (into 50Ω) 5mV/mA Accuracy ±3% Cable Length 40" (1 meter) PicoScope* Oscilloscope Bandwidth 200 MHz Sampling Rate Up to 1 GS per seconds PC Connectivity USB 2.0 (USB 3.0 compatible). USB cable included. Power Requirements Powered from USB port Software Included PicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bit Dimensions 5.6" x 3.6" x 0.75" (142 x 92 x 19 mm)	Capacitance	Nominal 8pF
Electrode8x15" (20x35cm) - with Base Extension attachedDimensions11"L x 8"W x 4"H - without Base Extension 6"L x 8"W x 1"H - Base ExtensionWeight3.0 lbs (48 oz) - without Base Extension 1.0 lbs (16 oz) - Base ExtensionTektronix® CT1 Current Probe - Includes Att=nuatorBandwidth1 GHzSensitivity (into 50Ω)5mV/mAAccuracy±3%Cable Length40" (1 meter)PicoScope® OscilloscopeBandwidth200 MHzSampling RateUp to 1 GS per secondsPC ConnectivityUSB 2.0 (USB 3.0 compatible). USB cable included.Power RequirementsPowered from USB portSoftware IncludedPicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bitDimensions5.6" x 3.6" x 0.75" (142 x 92 x 19 mm)	High Voltage Resistor	500 Ohms, 1% tolerance
Dimensions6°L x 8°W x 1°H - Base ExtensionWeight3.0 lbs (48 oz) - without Base Extension 1.0 lbs (16 oz) - Base ExtensionTektronix® CT1 Current Probe - Includes Att-muatorBandwidth1 GHzSensitivity (into 50Ω)5mV/mAAccuracy±3%Cable Length40° (1 meter)PicoScope® OscilloscopeBandwidth200 MHzSampling RateUp to 1 GS per secondsPC ConnectivityUSB 2.0 (USB 3.0 compatible). USB cable included.Power RequirementsPowered from USB portSoftware IncludedPicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bitDimensions5.6° x 3.6° x 0.75° (142 x 92 x 19 mm)		
Tektronix® CT1 Current Probe - Includes AttenuatorBandwidth1 GHzSensitivity (into 50Ω)5mV/mAAccuracy±3%Cable Length40" (1 meter)PicoScope® OscilloscopeBandwidth200 MHzSampling RateUp to 1 GS per secondsPC ConnectivityUSB 2.0 (USB 3.0 compatible). USB cable included.Power RequirementsPowered from USB portSoftware IncludedPicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bitDimensions5.6" x 3.6" x 0.75" (142 x 92 x 19 mm)	Dimensions	
Bandwidth1 GHzSensitivity (into 50Ω)5mV/mAAccuracy±3%Cable Length40" (1 meter)PicoScope® OscilloscopeBandwidth200 MHzSampling RateUp to 1 GS per secondsPC ConnectivityUSB 2.0 (USB 3.0 compatible). USB cable included.Power RequirementsPowered from USB portSoftware IncludedPicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bitDimensions5.6" x 3.6" x 0.75" (142 x 92 x 19 mm)	Weight	
Sensitivity (into 50Ω)5mV/mAAccuracy±3%Cable Length40" (1 meter)PicoScope® OscilloscopeBandwidth200 MHzSampling RateUp to 1 GS per secondsPC ConnectivityUSB 2.0 (USB 3.0 compatible). USB cable included.Power RequirementsPowered from USB portSoftware IncludedPicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bitDimensions5.6" x 3.6" x 0.75" (142 x 92 x 19 mm)	Tektronix® CT1 Current Probe - Includes Attenuator	
Accuracy ±3% Cable Length 40" (1 meter) PicoScope® Oscilloscope Bandwidth 200 MHz Sampling Rate Up to 1 GS per seconds PC Connectivity USB 2.0 (USB 3.0 compatible). USB cable included. Power Requirements Powered from USB port Software Included PicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bit Dimensions 5.6" x 3.6" x 0.75" (142 x 92 x 19 mm)	Bandwidth	1 GHz
Cable Length 40" (1 meter) PicoScope® Oscilloscope Bandwidth 200 MHz Sampling Rate Up to 1 GS per seconds PC Connectivity USB 2.0 (USB 3.0 compatible). USB cable included. Power Requirements Powered from USB port Software Included PicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bit Dimensions 5.6" x 3.6" x 0.75" (142 x 92 x 19 mm)	Sensitivity (into 50Ω)	5mV/mA
PicoScope® Oscilloscope Bandwidth 200 MHz Sampling Rate Up to 1 GS per seconds PC Connectivity USB 2.0 (USB 3.0 compatible). USB cable included. Power Requirements Powered from USB port Software Included PicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bit Dimensions 5.6" x 3.6" x 0.75" (142 x 92 x 19 mm)	Accuracy	±3%
Bandwidth 200 MHz Sampling Rate Up to 1 GS per seconds PC Connectivity USB 2.0 (USB 3.0 compatible). USB cable included. Power Requirements Powered from USB port Software Included PicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bit Dimensions 5.6" x 3.6" x 0.75" (142 x 92 x 19 mm)	Cable Length	40" (1 meter)
Sampling Rate Up to 1 GS per seconds USB 2.0 (USB 3.0 compatible). USB cable included. Power Requirements Powered from USB port Software Included PicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bit Dimensions 5.6" x 3.6" x 0.75" (142 x 92 x 19 mm)	PicoScope® Oscilloscope	
PC Connectivity USB 2.0 (USB 3.0 compatible). USB cable included. Power Requirements Powered from USB port Software Included PicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bit Dimensions 5.6" x 3.6" x 0.75" (142 x 92 x 19 mm)	Bandwidth	200 MHz
PC Connectivity USB 2.0 (USB 3.0 compatible). USB cable included. Power Requirements Powered from USB port Software Included PicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bit Dimensions 5.6" x 3.6" x 0.75" (142 x 92 x 19 mm)	Sampling Rate	Up to 1 GS per seconds
Power Requirements Powered from USB port Software Included PicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bit Dimensions 5.6" x 3.6" x 0.75" (142 x 92 x 19 mm)	PC Connectivity	USB 2.0 (USB 3.0 compatible). USB cable included.
Software Included PicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bit Dimensions 5.6" x 3.6" x 0.75" (142 x 92 x 19 mm)	Power Requirements	Powered from USB port
		PicoScope 6 for Microsoft Windows 7, 8 and 10; 32-bit and 64-bit
Weight < 0.2 kg (7 oz)	Dimensions	5.6" x 3.6" x 0.75" (142 x 92 x 19 mm)
1 · · · · · · · · · · · · · · · · · · ·	Weight	< 0.2 kg (7 oz)

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