

CableEye® TECHNICAL SPECIFICATIONS

	Low Voltage Only				Low Voltage plus High Voltage	
	M2U-B Item 810U	M2U Item 811U	M3U Item 821U p.5	M3UH Item 821UH	HVX Item 829 p.8	HVX-21 Item 829A p.8
					1500 Vdc 1000 Vac	2100 Vdc 1200 Vac
Test Points Available	128	64,128,152 Switch Selectable	64,128,152 Switch Selectable		64, 128, 152 Switch Selectable (for LV tests) 64, 128 Switch Selectable (for HV tests)	
Expandable	No	Yes, to 1024	Yes M3U to 2560 Max M3UH to 1024 Max		Yes, to 1024 Max	Yes, to 512 Max
Test Time	0.2 s		0.2 s One Threshold 0.25 s Two Thresholds		Depends on voltage, ramp rate, and test algorithm selected	
USB Interface	USB 1.1, Fast		USB 1.1, Fast		USB 1.1, Fast, Two Ports	
Resistance Thresholds	46 kΩ, Fixed		M3U: 0.3 Ω to 10 MΩ M3UH: 0.1 Ω to 5 MΩ		0.1 Ω to 1 GΩ	0.1 Ω to 5 GΩ
Resistance Measurement	No		2% from 10Ω to 100Ω 1% from 100Ω to 1 MΩ Lesser accuracy over full range.		Same as M3UH under 1 MΩ 5% 1 MΩ to 100MΩ Lesser accuracy above 100 MΩ	
4-Wire Kelvin (option)					1 mΩ ± 1 mΩ, 1 mΩ –15Ω Test Current 100 mA –1 A	
Diode Measurement	Orientation Only		Orientation and Forward Voltage		Orientation and Forward Voltage, Rev. Breakdown	
Test Voltage	5V		10V		10 - 1500 Vdc or 10 - 1000 Va _{C_{rms}} in Increments of 1V	10 - 2100 Vdc or 10 - 1200 Va _{C_{rms}} in Increments of 1V
Test Voltage Accuracy					DC: ± 2%, ± 1.5V AC: ± 4%, ± 2V _{rms}	
Ramp Rate Adjustment					150V/s to 5000V/s	
LV Max. Test Current	0.3 mA		M3U: 1.0 mA M3UH: 3.3mA		3.3 mA	
Dielectric Withstand Range (DWR)					DC: 25 μA – 1.5 mA AC: 50 μA – 1.5 mA	
Dielectric Withstand Threshold Accuracy					DC: ± 5%, ± 5 μA AC: ± 5%, ± 100 μA	
Dwell Time Range	1 μs to 100 ms		1 μs to 100 ms		LV: 1 μs to 100 ms HV: 30 ms - 300 s	
Insulation Resistance Measurement Range			10 MΩ Max at 10V		2 MΩ - 1 GΩ at 1500Vdc 2 MΩ (min) at 1000Vac Current Sensitivity: 1 μA	2 MΩ - 5 GΩ at 2100Vdc 2 MΩ (min) at 1000Vac Current Sensitivity: 0.2 μA
Digital I/Os	1		1 (more with CB35, p25)		1 (more with CB35, p25)	
Calibration	(not applicable)		Recommended Yearly		Recommended Yearly	
Test Point Connectors	64-pin dual-row headers, 0.1" (2.54 mm) centers. Two per 128-point module					
Remote Control Socket	No	MiniDIN8 Connector for Footswitch, External Control Panel				Optional HV Remote Socket
Probe Socket	No	Yes. Probe included with tester. Accessory port also usable with minihook cables.				
Power Requirement	9Vdc at 300 mA (max) 3W, from wall module		18Vdc at 500 mA (max) 9W, from wall module or desktop supply		100 - 250Vac, 50-60Hz 130W (max) for 128 TPs; 175W (max) for 512 TPs IEC-standard universal C14 chassis plug	
Footprint	13 x 9" (33 x 22.9 cm)				13" x 19" (33 x 48.3 cm)	
Weight	2 lbs 6 oz (1.1 kg)		2 lbs 10 oz (1.2 kg)		21 lbs (9.5 kg)	
Computer Requirements	Any Windows-capable machine running Windows XP-SP3 or later. Compatible with touchscreen and laptop PCs.					
Environmental Specs	Environmental, EMC, and Safety Specifications: camiresearch.com/environmental-specs.pdf					
Warranty	One year, parts and labor, with free tech support and free software upgrades. Renewable yearly.					