

# CableEye® TECHNICAL SPECIFICATIONS

	Low Voltage Only		Low Voltage plus High Voltage						
	<b>M2U-B</b> <small>Item 810U</small>	<b>M2U</b> <small>Item 811U</small>	<b>M3U</b> <small>Item 821U p.5</small>	<b>M3UH</b> <small>Item 821UH</small>	<b>HVX</b> <small>Item 829 p.8</small>	<b>1500 Vdc</b> <b>1000 Vac</b>	<b>HVX-21</b> <small>Item 829A p.8</small>	<b>2100 Vdc</b> <b>1200 Vac</b>	
Test Points Available	128	64, 128, 152 Switch Selectable	64, 128, 152 Switch Selectable		64, 128 Switch Selectable				
Expandable	No	Yes	Yes M3U to 2560 Max M3UH to 1024 Max		Yes, to 1024 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 k $\Omega$ , Fixed		M3U: 0.3 $\Omega$ to 10 M $\Omega$ M3UH: 0.1 $\Omega$ to 5 M $\Omega$		0.1 $\Omega$ to <b>1 G<math>\Omega</math></b>		0.1 $\Omega$ to <b>5 G<math>\Omega</math></b>		
Resistance Measurement	No		1% from 100 $\Omega$ to 1 M $\Omega$ Lesser accuracy over full range.		Same as M3U under 1 M $\Omega$ . 5% 1 M $\Omega$ to 100 M $\Omega$ , Lesser accu- racy above 100 M $\Omega$				
4-Wire Kelvin (option)					1 m $\Omega$ $\pm$ 1 m $\Omega$ , 1 m $\Omega$ -15 $\Omega$ 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 - <b>1500</b> Vdc or 10 - <b>1000</b> Vac <sub>rms</sub> in Increments of 1V		10 - <b>2100</b> Vdc or 10 - <b>1200</b> Vac <sub>rms</sub> in Increments of 1v		
Test Voltage Accuracy					DC: $\pm$ 2%, $\pm$ 1.5 V AC: $\pm$ 4%, $\pm$ 2 V <sub>rms</sub>				
Max. Test Current	0.3 mA		M3U: 1.0 mA M3UH: 3.3 mA		LV: 3.3 mA HV: Adj 25 $\mu$ A - 1.5 mA				
Dielectric Withstand Range (DWR)					DC: 25 $\mu$ A - 1.5 mA AC: 50 $\mu$ A - 1.5 mA				
Dielectric Withstand Theshold Accuracy					DC: $\pm$ 5%, $\pm$ 5 $\mu$ A AC: $\pm$ 5%, $\pm$ 100 $\mu$ A				
Dwell Time Range	1 $\mu$ s to 100 ms		1 $\mu$ s to 100 ms		LV: 1 $\mu$ s to 100 ms HV: 10 ms - 300 s				
Insulation Resistance Measurement Range			10 M $\Omega$ Max at 10V		2 M $\Omega$ - 1 G $\Omega$ at 1500 Vac 2 M $\Omega$ (min) at 1000 Vdc Current Sensitivity: <b>1 <math>\mu</math>A</b>		2 M $\Omega$ - 5 G $\Omega$ at 2100Vdc 2 M $\Omega$ (min) at 1000 Vac Current Sensitivity: <b>0.2 <math>\mu</math>A</b>		
Calibration	Not required		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 useable with minihook cables.							
Power Requirement	9 Vdc at 300 mA (max) 3W, from wall module		18 Vdc at 500 mA (max) 9W, from wall module or desktop supply		100 - 250 Vac, 130W (max), IEC-standard uni- versal C14 chassis plug				
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, Win7, Win8, or Win10. Compatible with touchscreen and laptop PCs.								
Warranty	One year, parts and labor, with free tech support and free software upgrades. Renewable yearly.								