CableEye® TECHNICAL SPECIFICATIONS

	Low Voltage					Low and High Voltage			
CE	M2U-B Item 810U	M2U Item 811U	M3U Item 821U	M3UH Item 821UH	M4 Item 824	HVX Item 829	HVX-2 Item 829		
Main Unit Test Points	128	152				152 for LV tests 128 for HV tests			
Max Test Points	128	1024	2560	1024	1024	1024	512		
Test Time (128 Test Points) Continuity Only With Resistance Test		?0 s /A	0.20 s 0.25 s		0.15 s 0.40 s	Depends on voltage, ramp rate, and test algorithm selected			
Resistance Thresholds	46 kΩ	, Fixed	0.3 Ω to 10 MΩ	0.1 Ω to 5 MΩ	$0.02~\Omega$ to $6~M\Omega$	0.1 Ω to 1 GΩ	0.1 Ω to 5 GΩ		
Resistance Accuracy			Less	2% from 10Ω to 1% from 100Ω to ser accuracy over	1 ΜΩ	5% 1 MΩ	JH under 1 MΩ to 100 MΩ y above 100 MΩ		
Resistance Range			M3U: 0.3 Ω M3UH: 0.1		0.02 Ω to 6 MΩ	Same as N	M3UH or M4		
4-Wire Kelvin					20 mΩ ± 20 mΩ, From 20 mΩ to 15 Ω Test Current: 3.3 mA	Test Current	rom 1 mΩ to 15 Ω 100 mA to 1 A ure (Item 832)		
Intermittent Connection Scan Rate	33 Sc	ans/s	26 Scans/s 90 Scans/	s - 64 TPs	18 Scans/s - 128 TPs 47 Scans/s - 64 TPs	Same as M3UH or M4			
Diode Measurement	Orientat	ion Only		ntation, Forward \ Reverse Breakdow	3	Orientation, For Reverse Bre			
Test Voltage	5	V	10	V	10 V	10 - 1500 Vdc or 10 - 1000 Vac _{rms} in Increments of 1 V	10 - 2100 Vo 10 - 1200 Vo in Increments	ac _{rms}	
Test Voltage Accuracy						DC: ± 2%, ±1.5 V	AC: ±4%, ±2 V _{ri}	ms	
Max. Test Current	0.3	mA	1.0 mA			3.3 mA			
Capacitance Range						50 pF - 100 μF		es .	
Capacitance Accuracy						±5%		atur eries	
Capacitance Meas. Rate						rements/Sec at 100 nF or	less	Optional Features for HVX series (Item 833)	
Twisted Pair Measurement						s, 6' Minimum Length		en HV	
Meas. Cable Length					Minimum Length 6 ft, ±3 ft				
Meas. Distance to Break					Minimun	n Distance to Break 6 ft, ±3			
Dwell Time Range			1 µs to 100) ms		HV: 30	to 100 ms ms - 300 s		
Insulation Resistance Measurement			10 MΩ at 10V	5 MΩ at 10V	6 MΩ at 10V	$2 M\Omega$ - $1 G\Omega$ at $1500 Vdc$ $2 M\Omega$ (min) at $1000 Vac$ Current Sensitivity: $1 \mu A$	$2 M\Omega - 5 G\Omega$ at $2 M\Omega$ (min) at 1 Current Sensitivit	000 Vac	
Digital I/Os	Inputs Only		Pairs of Test Poi	nts used as Inputs	, 50+ Relay Outputs with	optional Relay Boards (Ite	m 765) <mark>=</mark>		
Calibration	Not Re	equired			Recommende	d Yearly			
Test Point Connectors			64-pin dual-rov	v headers, 0.1" (2	.54 mm) centers. Two pe	r 128-point module			
Remote Control Socket	No		Yes, Mir	niDIN8 Connector	for use with e.g. Footsw	ritch, External Control Pane	el		
Probe Socket	No		Yes. Prob	e included with te	ester. Accessory port also	usable with minihook cabl	es.		
Power Requirement	9 Vdc at 30 3 W, from v	0 mA (max) vall module	18 Vdc at 50 9 W, from wa desktop	ıll module or	18 Vdc at 500 mA (max), 9 W	100 - 250 \ 130 W (max) for 128 TP: IEC-standard unive			
Weight	2 lbs 6 oz	z (1.1 kg)	2 lbs 10 o	z (1.2 kg)	2 lbs 6 oz (1.1 kG)	21 lbs	(9.5 kg)		
Computer Requirements		Any Windo	ows-capable machir	ne running Windo	ws 7 or later. Compatible	with touchscreen and lapt	op PCs.		
USB Interface			USB 1.1, F	ast		USB 1.1, Fa	ast, Two Ports		
Environmental Specs		En	vironmental, EMC,	and Safety Specific	cations: camiresearch.com	n/environmental-specs.pdf			
Warranty	One year, parts and labor, with free tech support and free software upgrades. Renewable yearly.								

TEST AND MEASUREMENT MATRIX

					LV			HV
					M2U Series	M3U Series	M4	HVX Series
Continuity	*	-112 -117	11/1	*				
Opens					•	•	•	•
Shorts					•	•	•	•
Miswires					•	•	•	•
Intermittent Faults					•	•	•	•
Complex Networks, Ba	ckplan	es					•	
Resistance			-4-	4W KELVIM				
Connection, Non-Conn	ection	Qua	ality			•	•	•
Resistance (2-Wire)						•	•	•
Continuous Resistance Scan						•	•	•
Fixture Resistance Nulling						•	•	•
Resistance (4-Wire Kelvin)							•	
Capacitance			xx	H		,		
Wire Length, Cable Len	igth						•	
Length to Break			•					
Twist Pairing			•					
Single Channel Safety T	est			A				
Chassis, Panels, Transfo	rmers,	etc.						•
Insulation Quality				A				
Dielectric Strength								•
Dielectric Withstand Voltage (DWV)								•
Insulation Resistance		•	•	•				
In-Line Components		-₩	₩	H				
Resistors						•	•	•
Diodes Orientation Forward Voltage					•	•	•	•
LEDs Orientation Color Detection					•	•	•	•
Zener Diodes Orientation Forward Voltage Reverse Breakdown Reverse Breakdown					•	•	•	•
Capacitors							•	





Low Voltage Models

High Voltage Models