

Bench Digital Multimeters

ESCORT-3146A / 3145A / 3136A



Features

ESCORT-3146A/3145A

- 120,000/40,000/4,000 counts selectable
- Dual display
- Vacuum-fluorescent display (VFD)
- True RMS voltage (AC, AC+DC), 20Hz to 100kHz (ESCORT-3146A)
- True RMS voltage (AC, AC+DC), 40Hz to 30kHz (ESCORT-3145A)
- True RMS AC current measurement bandwidth from 20Hz to 10kHz (ESCORT-3146A)
- 2wires/4wires selectable for resistance measurement
- dBm and dBV measurements with selectable reference impedance of 2Ω to 8000Ω
- Dynamic recording (MIN/MAX)
- Measurement rate selectable: slow (120,000) 2times/sec, medium(40,000): 5times/sec, fast (4,000) 20times/sec
- Compare (Hi/La/Pass) function for quick in-tolerance test
- Data Hold
- RS-232 Interface
- GPIB Interface (Option), conform to SCPI and IEEE-488.2 standards

ESCORT-3136A

- 50,000 Counts Dual Display
- Vacuum-fluorescent Display (VFD)
- High Performance/Price Ratio
- True RMS (AC, AC+DC), 30Hz to 100kHz ACV, and 30Hz-20kHz ACA
- Measurement Bandwidth
- Frequency Measurement to 500kHz, 0.01Hz Resolution
- Resistance Measurement from 500Ω to 50MΩ, 10mΩ Resolution
- dBm measurements with variable reference impedance from 2Ω to 8000Ω
- Dynamic Recording (MIN/MAX) with elapsed time
- Compare (Hi/La/Pass) function for quick in-tolerance test
- Percentage function transfers the measuring value to proportional
- Data Hold to freeze displayed value
- Refresh Hold for difficult measuring place
- External trigger a one-time measurement to get the result as your needs
- RS-232 Interface
- GPIB Interface (Option), conform to SCPI and IEEE-488.2 standards



Ordering Information

Standard Accessories:

- 62-25026-3u Spare Current Protection Fuse 2A/250V Fast Blow(ESCORT-3146A)
- 62-25031-1 Spare Current Protection Fuse 250mA/250V Fast Blow(ESCORT-3145A)
- 62-25038-1u Spare Current Protection Fuse 1A/250V Fast Blow(ESCORT-3136A)
- Operation Manual
- Power cord
- Protective holsters (Front and Rear)
- Test leads (TL-36 for ESCORT-3146A/3145A, TL88-1 for ESCORT-3136A)

Optional Accessories:

- KC-01 4 Wires Test Cable Set With Kelvin Clippers
- RK-01 Rack-mount kit (used for single meter)
- TH-02 Insulation Piercing Clip
- GP-08-3136A IEEE-488 Interface
- GP-08-3146A IEEE-488 Interface
- TL-35 Tip Type Test Leads, 15A/1000V CAT III
- TL-88-4 Test leads (Lantern-type probe)
- AC-02 Lantern tip extension probe for TL-35 (ESCORT-3146A/3145A)
- AC-03 Alligator clips (Red and Black Set) (ESCORT-3146A/3145A)
- CP-08 RS-232 PC Link Software and Cable (ESCORT-3146A/3145A)
- CP-10 RS-232 PC Link Software and Cable (ESCORT-3136A)
- Ez Cal Auto Calibration software (ESCORT-3146A/3136A)



Specifications	ESCORT-3146A	ESCORT-3145A	ESCORT-3136A
Display Digits	5 1/2 Digit dual display	5 1/2 Digit dual display	4 4/5 Digit dual display
Display Counts	120,000	120,000	50,000
Display Type	Vacuum-fluorescent	Vacuum-fluorescent	Vacuum-fluorescent
DCV			
Range	120mV~1000V	120mV~1000V	500mV~1000V
Basic accuracy	0.012%rdg+5dgts	0.02%rdg+5dgts	0.02%rdg+4dgts
Resolution	1μV~10mV	1μV~10mV	10μV~100mV
ACV			
Range	120mV~750V	120mV~750V	500mV~1000V
Basic accuracy	0.2%rdg+100dgts	1.5%rdg+200dgts	0.35%rdg+15dgts
Resolution	1μV~10mV	1μV~10mV	10μV~100mV
Frequency	20Hz~100kHz	40Hz~30kHz	30Hz~100kHz
DCA			
Range	12mA/120mA/1.2A/12A	12mA/120mA/12A	500μA~20A
Basic accuracy	0.05%rdg+5dgts	0.1%rdg+8dgts	0.05%rdg+4dgts
Resolution	0.1μA~100μA	0.1μA~100μA	10nA~1mA
ACA			
Range	12mA/120mA/1.2A/12A	12mA/120mA/12A	500μA~20A
Basic accuracy	0.5%rdg+100dgts	1.5%rdg+200dgts	0.5%rdg+20dgts
Resolution	0.1μA~100μA	0.1μA~100μA	10nA~1mA
Frequency	20Hz~10kHz	40Hz~5kHz	30Hz~20kHz
dBm			
Basic accuracy	0.1dBm	0.6dBm	0.2dBm
Resolution	0.01dBm	0.01dBm	0.01dBm
Resistance			
Range	120Ω~300MΩ	120Ω~300MΩ	500Ω~50MΩ
Basic accuracy	0.05%rdg+5dgts	0.1%rdg+5dgts	0.1%rdg+3dgts
Resolution	1mΩ~1kΩ	1mΩ~1kΩ	10mΩ~1kΩ
2/4WiresSelectable (Ω)	2Wires/4Wires	2Wires/4Wires	2Wires
Frequency			
Range	1200Hz~1MHz	1200Hz~120kHz	500Hz~500kHz
Basic accuracy	0.005%rdg+2dgts	0.01%rdg+3dgts	0.01%rdg+3dgts
Resolution	0.01Hz~10Hz	0.01Hz~1Hz	0.01Hz~10Hz
Diode	•	•	•
Continuity	•	•	•
DCV Measurement			
Rate (times/sec)	Slow:2 Medium:5 Fast:20	Slow:2 Medium:5 Fast:20	3
True RMS	AC or AC + DC	AC or AC + DC	AC or AC + DC
RS-232	Standard	Standard	Standard
GPIB (IEEE-488)	Option	Option	Option
Power	100V/120V/220V/240Vac±10%, 50/60Hz	100V/120V/220V/240Vac±10%, 50/60Hz	100V/120V/220V/240Vac±10%, 50/60Hz
Dimensions (L x W x H)	305 x 255 x 105mm	305 x 255 x 105mm	305 x 255 x 105mm
Weight	3kgs Approx.	3kgs Approx.	3kgs Approx.
Safety	CAT.I 1000V/CAT.II 600V	CAT.I 1000V/CAT.II 600V	CAT.II 1000V/CAT.III 600V

All specifications are subject to be changed by ESCORT without notice.