

# SPECIFICATIONS

## PURCHASE OF MEASUREMENT & INSTRUMENTATION LAB EQUIPMENT

	Description/Specification	
	<b>MEASUREMENT &amp; INSTRUMENTATION LAB EQUIPMENT SPECIFICATION</b>	
	<b>S.no</b>	<b>Specification</b>
	<b>1</b>	<b>Hot Air Rework Station Pro'sKit SS-989B</b> multifunction hot air soldering station combines hot air gun and soldering or equivalent
	<b>1</b>	
	<b>2</b>	<b>Spot Thermal Cameras -25 to 380 °C FLIR TG165 or Equivalent</b>
		Field of view (FOV)      50° x 38.6°
		IR resolution      80 × 60 pixels
		Thermal sensitivity/NETD      < 150 mK
		Minimum focus distance)      0.1 m (4 in.)
		Image frequency      9Hz
		Focus      Focus free
		Detector type      Focal plane array (FPA), uncooled micro bolometer
		Spectral range      8–14 μm
		Display      2.0 in. TFT LCD
		Object temperature range      –25 to +380°C (–13 to +716°F)
		Accuracy      ±1.5% or 1.5°C (2.7°F)
		Distance to spot ratio      24:01:00
		Minimum measurement distance      26 cm (10 in.)
		Center spot      Yes
		Color palettes      Hot Iron, Rainbow, Grayscale
		Memory type      Micro SD card
	<b>1</b>	

	Image storage capacity	75 000 pictures with included 8 GB Micro SD card	
	Memory expansion	32 GB SD card maximum	
	Saved image format	Bitmap (BMP) image with temperature and emissivity	
	Laser	Dual diverging lasers indicate the temperature measurement area, activated by pulling the trigger	
	Battery type	Rechargeable Li ion battery	
	Battery voltage	3.7 V	
	Battery operating time	>5 hours of continuous scanning with lasers	
	Battery charge life	30 days minimum life	
	Charging system	Battery is charged inside the camera	
	Charging time	4 hours to 90%, 6 hours to 100%	
	Power management	Adjustable; OFF, 1 min., 2 min., 5 min., 10 min.	
	Operating temperature range	-10 to +45°C (+14 to 113°F)	
	Storage temperature range	-30 to +55°C (-22 to 131°F)	
<b>3</b>	<b>GM1350 Benetech infrared Thermometer -18 to 1350C or equivalent</b>		<b>2</b>

		<b>Temperature range</b>	- 18~1350°C (0~2462°F)	
		<b>Accuracy</b>	0~1350°C 32~2462°F): ±1.5°C (±2.7°F) or ±1.5%	
	-18~0°C (0~32°F): ±3°C (±5°F)			
	Whichever is greater			
		<b>Resolution</b>	0.1°C or 0.1°F	
		<b>Repeatability</b>	1% of reading or 1°C	
		<b>Response time</b>	500 mSec, 95% response	
		<b>Spectral response</b>	8-14 μm	
		<b>Emissivity</b>	0.10~1.00 Adjustable (0.95 Preset)	
		<b>Distance to Spot size</b>	50:01:00	
		<b>Operating Temperature</b>	0 ~40°C (32 ~ 104°F)	
		<b>Operating Humidity</b>	10~95%RH non- condensing, up to 30°C (86°F)	
		<b>Storage Temperature</b>	-20 ~ 60°C (-4 ~ 140°F)	
		<b>Power</b>	9V Alkaline or NiCd battery	
		<b>Typical battery life (Alkaline)</b>	Non-laser mode: 22 hrs;	
			Laser Models: 12 hrs	
		<b>Weight</b>	270g	
		<b>Dimension</b>	141*60*200mm	
	<b>4</b>	<b>Pressure Transducer</b>	Dc 5.0V, cable length 19cm	<b>2</b>