

**JEROME  
J505 J405 J431  
COMPARISON  
FLYER**

## Jerome® J505, J405 and 431 Comparison Flyer

### APPLICATIONS

Ambient Air Analysis  
 Clean Up Compliance  
 Detection Compliance  
 Disposal & Recycling  
 Exhaust Duct Monitoring  
 Facility Monitoring  
 Fluorescent Lamps  
 Gold Mining  
 Hazardous Waste Sites  
 HAZMAT  
 Landfill Monitoring  
 Leak Detection  
 Mercury Exclusion Testing  
 Mercury Spill Response  
 Monitoring: light bulbs,  
 mercury switches  
 equipment  
 Plant Environment  
 Quality Control  
 Scrubber Efficiency Testing  
 Source Surveys  
 Worker Safety

### CERTIFICATIONS

ISO 9001: 2008

MADE IN THE USA



Arizona Instrument LLC

3375 N. Delaware St. | Chandler, AZ  
 www.azic.com



<u>Specifications</u>	JEROME J505	JEROME J405	JEROME 431X
<b>Technology:</b>	Atomic Fluorescence Spectroscopy	Gold Film Sensor	Gold Film Sensor
<b>Detection Range:</b>	0.05 - 500 ug/m <sup>3</sup>	0.5-999 ug/m <sup>3</sup>	0.003-0.999 mg/m <sup>3</sup>
<b>Resolution:</b>	0.01 ug/m <sup>3</sup>	0.01 ug/m <sup>3</sup>	0.001 mg/m <sup>3</sup>
<b>Display Capabilities:</b>	mg/m <sup>3</sup> , ug/m <sup>3</sup> , or ng/m <sup>3</sup>	mg/m <sup>3</sup> or ug/m <sup>3</sup>	mg/m <sup>3</sup>
<b>Accuracy:</b>	+/- 10% @ 1.0 ug/m <sup>3</sup>	+/- 10% @ 1.0 ug/m <sup>3</sup>	+/- 5% @ 0.100mg/m <sup>3</sup>
<b>Response Time:</b>	Standard Mode 28 Seconds Quick Mode 16 Seconds Search Mode 1 Second	Sample Mode 12 seconds Survey Mode 2 seconds	Sample Mode 12 seconds Survey Mode 4 seconds
<b>Environmental:</b>	5-45C, Non-condensing Non-explosive	0-40C, Non-condensing, Non-explosive	0-40C, Non-condensing, Non-explosive
<b>Certifications:</b>	CE and UL Pending	TUV 61-010 and CE	UL and CE (XE models only)
<b>Weight:</b>	3kg/6.5 lbs	2.5kg/5lbs	3kg/7lbs
<b>Interface:</b>	USB host, USB slave	USB host, USB slave	DB-25 RS-232
<b>Dimensions:</b>	6.2" W X 12" L X 8.4" H	6" W X 11" L X 6.5" H	6" W X 13" L X 4" H
<b>Internal battery:</b>	NiMH 10+ Hours 3 hours to Recharge	NiMH 24 hour life 3 hours to recharge	NiCad 6 hour life 8 hours to recharge
<b><u>OPTIONS</u></b>			
<b>Data Logging:</b>	Internal - 10,000 data points	Internal - 20,000 data points	External Box - 1,000 data points
<b>Dosimeter:</b>	No	No	Yes
<b>Output Data:</b>	No	4-20mA	4-20mA & 0-2 VDC
<b><u>ACCESSORIES</u></b>			
<b>External Battery:</b>	No	Yes	No
<b>Regeneration:</b>	N/A	Can use A/C current or External battery	Requires A/C voltage

# Detection Range Overview

EPA Limit 1.0  $\mu\text{g}/\text{m}^3$

