

LANCASTER FIRE DEPARTMENT

EQUIPMENT FIELD OPERATION



EQUIPMENT:

- Altair 5x Meter
- Altair 4x Meter
- Evolution 5200 (Black colored) Thermal Imaging Camera
- Evolution 5600 (Gray colored) Thermal Imaging Camera

OPERATION NOTES:



Altair 5x four-gas multi-gas meter

- 4 Gas meter (CO, O2, LEL, H2S)
- The Altair 5 is a pumping meter, it draws actively through the pump opening or the hose and wand. The wand needs to go where you think the gas is
- Turn on- center button
- Takes a minute to warm up
- At one point the meter asks you to put your finger over the end of the pump. Do this to check pump integrity
- At end of warm-up it will ask "Fresh Air Setup?"
- Confirm by pressing button labeled "Yes"
- Meter is ready to go!
- TO ZERO IN THE FIELD...
- Locate a fresh air environment, press the button labeled "cal" (on the right) for 3 seconds
- Follow directions- no need to "calibration span gas" this, just do "zero calibrations" in the field
- Meter will zero itself quickly and you're done!



Altair 4x four-gas multi-gas meter

- 4 Gas meter (CO, O2, LEL, H2S)
- The Altair 4 is an ambient air device, the meter needs to go where you think the gas is
- Turn on- center button
- Takes a minute to warm up
- At end of warm-up is will ask “FAS?” (Fresh Air Setup?)
- Confirm by pressing power button firmly for 1 second, do this in a fresh air environment
- Meter is ready to go!
- TO ZERO IN THE FIELD...
- Locate a fresh air environment, press the raised up arrow firmly for 3 seconds
- Meter will say “ZERO CAL” or “FAS”, accept by pressing power button for 1 second
- Meter will then say “CAL SPAN?”, decline by pressing up arrow button for 1 second
- Meter will zero itself quickly and you’re done!
- HINT: NO NEED TO EVER USE THE DOWN ARROW BUTTON ON THIS METER IN THE FIELD



E5600 and E5200 Thermal Imaging Cameras

- Lithium Ion battery- 2.5 hour run time
- Charger- 2 hours
- Trickle charge on side on charger, extra battery
- Not quite the same operation as the old Bullard TIC (similar but easier):
 - Green button- ON
 - Green button- SLEEP
 - Green button- OFF (hold for 5 seconds)
- Temp gauge on right shows digital and analog
 - Numbers based on the dot in the middle of the screen
 - Use for overhaul, scan a hot spot, scan away, scan same hot spot 30 seconds later... look for quick jump or steady temp
 - Make determination on opening up wall at that point
- All cameras “shutter” on their own every 30 seconds or so
- Freezes the image for a split-second. This is OK, supposed to happen...
- Full color automatically when temps get hot. USE STOVE TO DEMONSTRATE
- Cameras can not see through glass, water, reflective surfaces, or fog. Look out for your own image in a window. (WHEN IN DOUBT, WAVE HELLO)



TIC Continued...

- White hot (default)- Hot items are white, standard TIC mode
- Wipe clean charging points before laying in charger
- Lanyard and clip
- Dual handle
- Can survive under water and in direct flame
- Both of our TIC's have full color.
- Lightweight, but still costs a lot of money. It does not take the place of a haligan, DO NOT break windows with it...