



Infrared Materials

The Leader in High Performance IR Detectors

QDAS

QUAD DETECTOR ACQUISITION SYSTEM



DISCREET DETECTION IN THE 1 - 3 AND 1 - 5 MICRON BANDS

MEASURE 4 GASES OR MATERIALS

WWW.INFRARED MATERIALS.COM

707-620-0160



QDAS | IR QUAD DETECTOR ACQUISITION SYSTEM

Key Features:

- Operable in 1, 2, 3, or 4 Channel Mode
- Optimized for Pulsed Light Source Between 5Hz and 150Hz (1KHz+ possible w/ NRE)
- Low Noise, AC Coupled Amplifier (TIA) with Adjustable Gain of 100K or 1Meg
- Completely USB Powered (Non-Cooled Version) | On-Board Non-Volatile Memory to Capture Board Settings
- TTL Trigger Input for Pulse Timing Input | Acquire Data Direct to File in Binary Format → CSV Data Conversion
- Auto Calibration to Find Peak Signal Timing | Absolute and Relative Signal Display Modes
- Small Form Factor: Dual-Board Stack, 1.8" (45.72 mm) Square
- Optional TE Cooler Controller Board Available (QDAS-TEC)
- Windows Drivers and Software Compatibility: XP and Later Versions



QDAS System Software:

- Windows Base Software Written in .NET
 - Controls QDAS Board
- 4 Channel Detector, Pulsed IR Source

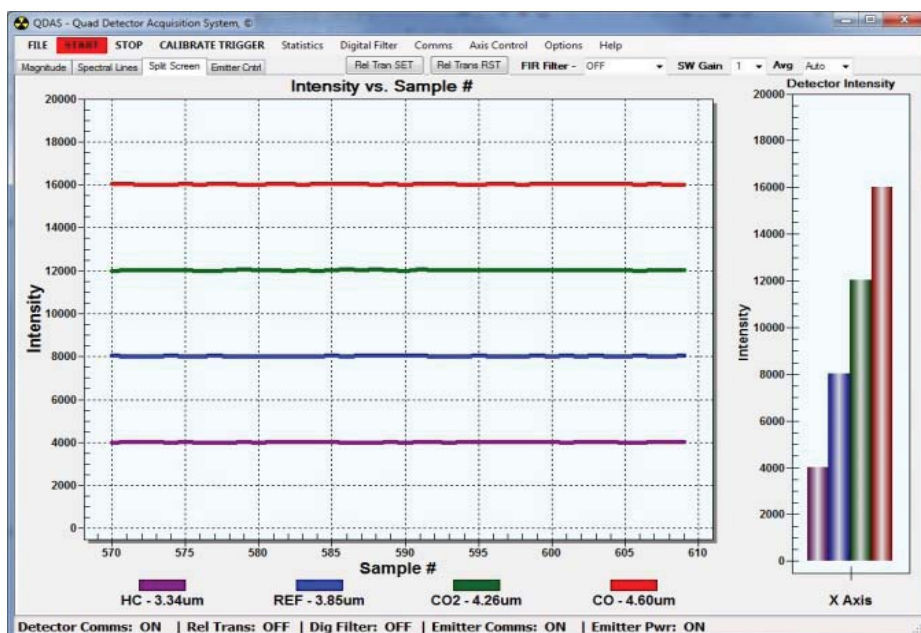
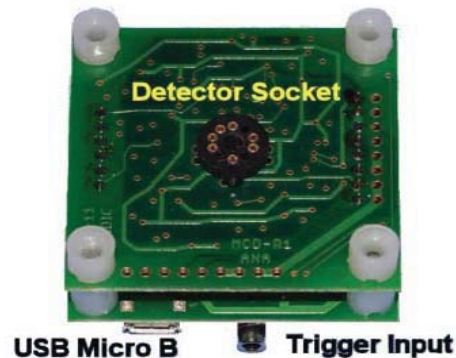


Power Requirements:

- Non-Cooled: 5.0 Volts (USB Power)
- TE Cooled: 5.0 Volts, USB Power + 4.5VDC
- Power Supply @ 1.5Amps

Non-Cooled Kit Includes:

- QDAS USB Controller Board
- USB Cable
- QDAS GUI Software, User's Manual
- SDK Library

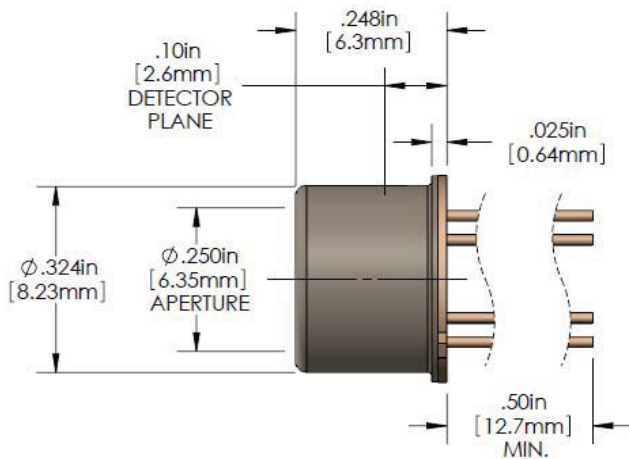


Cooled Kit Includes:

- QDAS USB Cooler Controller Board
- PbS or PbSe 4-Channel Detector
- Pulsed Emitter Controller Board
- MEMS Pulsable IR Emitter
- USB & Trigger Cables, Power Supply
- Software, User's Manual, SDK Library

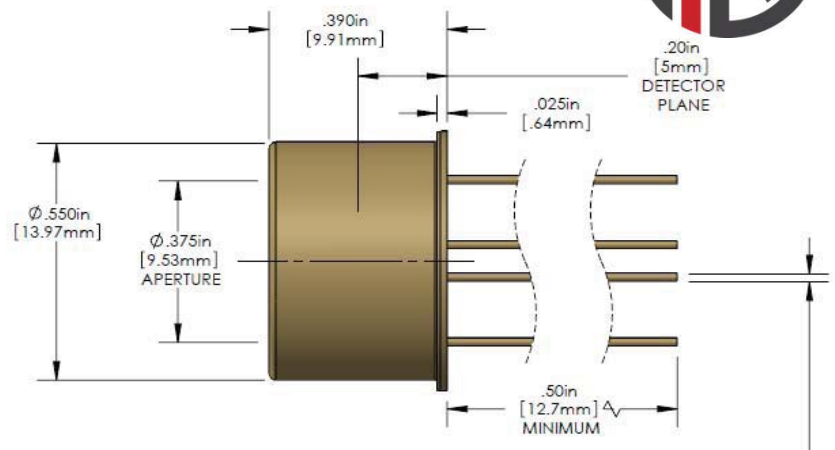
Standard Filter Wavelengths:

- 4.60 microns - CO (Carbon Monoxide)
- 4.26 microns - CO₂ (Carbon Dioxide)
- 3.80 microns - Reference
- 3.40 microns - HC (Hydrocarbon)
- **Filter Wavelengths are Customizable



PIN FUNCTION TABLE

PIN NO.	FUNCTION	FILTER
1	COMMON	
3	ELEM 2	3.85 μ m
4	ELEM 3	4.26 μ m
8	ELEM 4	4.60 μ m
9	ELEM 1	3.34 μ m



PIN FUNCTION TABLE

PIN NO.	FUNCTION	FILTER
1	TE COOLER (-)	
2	COMMON	
3	CASE GROUND	
4	TE COOLER (+)	
6	ELEMENT 2	3.85 μ m
7	ELEMENT 3	4.26 μ m
10	THERMISTOR	
11	THERMISTOR	
14	ELEMENT 4	4.60 μ m
15	ELEMENT 1	3.34 μ m

9X $\varnothing.018\text{in}\pm.002$
[0.46mm $\pm$ 0.05]
PINS

