

## Haz Dust VDM-75



Environmental Devices Corporation is an innovative leader in real-time particular monitors and is the first manufacturer to offer a turnkey, affordable, complete, and portable, wireless video dust monitor.

The VDM-7500 measures the levels of lung-damaging particulates while simultaneously video taping the workers job task. The work activity can be visualized and linked to the workers dust levels.

The system is designed to be user-friendly and all operations are window-based and easy-to-use.

Being able to actually see, record, and store video and dust data of a worker's lung-damaging exposure is essential to employee health monitoring practice.

HAZ-MAT responds to heavy industrial pollution air monitor program. The integration of video couple to measure particulate contamination allows a more dynamic assent in identifying and analyzing the air contaminant exposure. This allowing for better control and documentation for improving decision-making.

### Applications

- Determining levels of worker respiratory protection for OSHA compliance
- Compliance program reviews
- Evaluating work practices and controls of any dust-generating practices
- Safety audits
- NIOSH Video exposure monitoring for real-time graphical overlays
- Welding fume exposures
- Air quality studies in occupational health and industrial hygiene
- Haz-Mat air quality investigation and waste site remediation
- VDM-7500 Monitor is a useful tool for all monitoring applications involving lung-damaging particulates

In addition to Occupational Health applications, the VDM-7500 Video dust monitoring system has benefits for hazardous material remediation, fire fighters, and emergency rescues. Industrial emissions and Insurance company in video documenting any lung-damaging particulate exposure.

### Specifications

<b>Display:</b>	Alpha-numeric LCD - 4-line, 20-character, mg/m <sup>3</sup>
<b>Operations:</b>	4-key, splash-proof membrane switch - menu-driven
<b>Calibration:</b>	NIOSH gravimetric reference - NIST traceable - SAI Fine test dust
<b>Accuracy:</b>	+/- 10% to filter gravimetric SAE fine test dust
<b>Sensing Range:</b>	0.01 - 200 mg/m <sup>3</sup>
<b>Particulate Size Range:</b>	0.1 - 100 microns

<b>Precision:</b>	+/- 0.02 mg/m <sup>3</sup>
<b>Sampling Flow Rate:</b>	1.0 - 3.3 liters/minute
<b>Filter Cassette:</b>	37mm disposable
<b>Analog Output:</b>	0 - 2 VDC
<b>Alarm Output:</b>	90db at 3 ft.
<b>Recording Time:</b>	1 sec at 21 weeks
<b>Sampling Time:</b>	1 sec, 1 min, and 10 min intervals
<b>Data Storage:</b>	21,500 data points
<b>Security Code:</b>	4-digit combinations
<b>Memory &amp; Time Storage:</b>	> 5 years
<b>Real-Time Clock &amp; Data Display:</b>	Hours, min, sec, day, month, year
<b>Data Display:</b>	Concentration in mg/m <sup>3</sup> & TWA, MAX, MIN, STEL, date, time
<b>Digital Output:</b>	RS-232
<b>Operating Temperature:</b>	0 - 50°C
<b>Storing Temperature:</b>	-20 - 70°C
<b>DustComm Software:</b>	Windows Driver
<b>Power:</b>	NiMH rechargeable battery
<b>Operating Time:</b>	> 8 hours
<b>Charging Time:</b>	10 - 12 hours
<b>Humidity:</b>	95% non-condensing
<b>Dimensions (case):</b>	5.4" x 3.3" x 2.7"
<b>Sensor Dimensions:</b>	1.75" x 1.5"
<b>Weight:</b>	1.5 lbs