

the **Air Duct
Cleaning**
Professorial



innoEye

*Real Time Inspection
at Anywhere & Anytime*



In many cases where the integrity & cleanliness of a ducting system has been called into question, the most important concern from building management & maintenance becomes the ability to view and evaluate the actual ducting interior.

Such interest often exists where:-

For safety reason, the ductwork interior condition (e.g. transportation of gases or the exhaustion ducting system of laboratory) is not allowed for visual inspection by person.

A visual confirmation is desired before the 1st start-up of ventilation system, to avoid any unacceptable impact of HVAC equipment with unknown objects inside the ductwork

A visual confirmation is desired before performing corrective actions as a result of expending any unnecessary costs.

A prior nondestructive remote inspection is appreciated.



Visual inspection also becomes important in the operating buildings where:-

The build-up of dust is suspected of causing a loss of air flow in supply/ exhaust air system.



Because of this accumulated dust is humid & odorous and creates a basis for bacteria and fungi. These might, within time, free themselves from the duct and be transported into contact with the occupants.

The small & dark ductwork which is virtually impossible to be inspected



Consequently, the system performance is dropping day by day and the occupants are suffering into the risk of being infected by the airborne diseases.

Due to the typical variations in deposit buildup found between different duct location, it is questionable, as well as very risky, to base any major duct maintenance, repair or replacement decision on the results from the physical inspection by person of one area alone.

Through the combined use of mini camera technology and robotic control, Innoclean InnoEye System (IIS) can visually inspect the interior of almost any ductwork system to provide a clear and conclusive proof of a suspected condition.



Innoclean InnoEye System (IIS) Interior inspection is especially useful in cases where it is necessary to identify the extent and seriousness of built up interior deposits.

Remote visual inspection is a tremendously useful tool for determining the interior condition and operation of wide variety mechanical equipment, such as:-

- * Air Damper, Isolation Dampers or Bubble Tight Damper*
- * Electrical Duct Heater*
- * Pre-filters, Bag-filter & HEPA filter in the air handling unit*
- * Cooling & Heating coil in the air handling unit*
- * Heat Wheel*
- * Supply & Exhaust Fan of ventilation system*
- * Air Handling Unit*
- * Air duct sensors / Ultra-Violet Lamp facilities / Guard-mesh inside the air duct*

Moreover, it can also use for the security checking on any interior space.

What's in the bag?



Portable Multimedia Player (PMP):

Photo capturing & video recording of real time inspection; 3.6" LCD screen; 1 G internal harddisk; SD memory card slot; Ports for video signal in & out.

Hard Wired Remote Controller:

Main control unit for Camera/ Lighting On/OFF; With internal battery for free onsite operation upto 2.5 hrs; Video output port for PMP recording; Port for recharging and power supply.

Flexible Conduit:

To form any shape to suit the site conditions.

Extension Rob:

Good help to reach a higher level.



Rigid Oral Head:

With color camera & LED lighting inside; Good protection from any unexpected impact.

