

MicroInspector®

MI-180

FEATURES & BENEFITS

- Very Easy-to-Use
- One Hand Operation
- Internal Battery
- 200 Foot Range
- Digital Video Recording
- HD Video Recorder Option

APPLICATIONS

- Robotic Inspections
- Job Documentation
- HVAC Duct Remediation
 - Source Removal Clean
 - New Surface Clean
 - Seal Duct Air Leakage
 - Increase Air-Flow
 - Encapsulate Loose Fibers
 - Deter Microbial Growth
 - Odor Elimination

Patents Pending

Product Highlights

- All in One Robotic System
- Video Supported Sales
- Up-Sell Duct Cleaning Jobs
- Offer Energy Savings (ROI)
- Expand Service Offerings



Technical Description

MI-180 is designed to inspect, clean, coat, disinfect and seal all types of HVAC ducts from 8 x 6 inches up to 24 x 24 inches in a single pass. The inspection range is 200 feet and new technologies provide an abundance of light for high quality digital video. All cleaning and chemical application kits have quick disconnect hardware allowing fast setup and teardown times. These advanced features allow contractors to quickly identify HVAC contamination and duct remediation issues to significantly improve building energy efficiency so the indoor air quality comes as a bonus as the ducts have to be cleaned ahead of sealing.

Introduction

MI-180 is a compact robotic vehicle with an integrated digital video recorder. Personal computer software is included, making this an invaluable inspection and job documentation tool.

The same robotic vehicle is designed to carry various devices used for pneumatic cleaning and airless-sprayer driven application of chemicals to sanitize, disinfect, coat and seal HVAC ducts from the inside.

This cost-effective combination of features, flexibility, and ease-of-use, offers an excellent opportunity for professional contractors to generate additional revenues and profits by offering complete HVAC duct remediation so energy savings provide a return of investment for the building owner making every bid an easier sell. **WORK SMARTER, NOT HARDER!**



Contribute to LEED® requirements when combined with either RE-500 or RS-100.

General Specifications	
Total System Weight	5 Lbs (2.3 Kg)
Robot Size	7 x 7 x 3" (18 x 18 x 8 cm)
Robot Weight	3.5 Lbs (1.5 Kg)
Remote Size	3 x 10 x 2" (8 x 25 x 5 cm)
Remote Weight	1.5 Lbs (0.8 Kg)
Camera	¼ IN. (0.6cm) color 380 line CCD
CCD Light Rating	0.5 LUX LLR
LCD Display	480 x 234 Pixels
Video Output	1 x 0.75 VP-P ~ 1VP-P, RCA, Composite NTSC
Video Storage	2 GB SD card
System Lighting	2 Dimmable LEDs per camera
Max. Light Intensity	130 Lumens per camera
LED Life Span	50,000 hrs
Max. Tether	200 Ft (60m)
System Power	Internal Li-ion Battery
Est. Battery Life	90 minutes (maximum light & continuous driving)
Battery Charger	220/50 OR 120/60 VAC
Storage Temperature	-30 to 60 °C
Operation Temperature	-10 to 45 °C
Maximum Relative Hum.	90%

Duct Cleaning	
Clean Any Type Of Ducts	Dual Whips (MI-180-DW)
Clean Metal Ducts	Rotating Brush (MI-180-RB)

Spray Application	
For Any Duct Profile	Rotating Sprayer (MI-180-RS)
Square/Rectangular	Fixed Head Sprayer (MI-180-FS) (misting or fogging)

*Please contact Lloyds Systems LLC for the latest product information.



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