



ENHANCED DATA GATHERING EQUIPMENT

The automated data collection powerhouse that provides a fast, accurate, and efficient way to collect and analyze pavement management data.

Why choose automated data collection?

FASTER — the collected images and data are gathered at roadway speeds.

SAFER — crews are not exposed to traffic during data collection.

POPULAR WITH THE PUBLIC — no traffic control is needed and there is no disruption to traffic or impact on the safety of fellow travelers.

BETTER DOCUMENTATION — the collected images provide a permanent record and are available for validation, quality control, asset extraction, and much more.

 $\label{eq:BETTER COVERAGE-100\%} \text{ coverage of conditions within the} field of view.$

EFFICIENT — with automated data collection, it's easy to gather multiple performance measures in one pass.



ABOUT US

Since 1994, we have provided our clients with the expertise to develop practical and innovative solutions for the design, maintenance, preservation, and rehabilitation of airport and roadway pavements.

PROGRAM AREAS

National Transportation Agencies • State Transportation Agencies • Local Municipalities • Private Agencies Department of Defense • Commercial Airports State Aviation Agencies

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How are data collected?

With one pass, APTech's EDGE collects multiple types of performance data and delivers thorough, reliable results with high digital quality.

> GLOBAL POSITIONING SATELLITE RECEIVER georeferences locations of the collected data for better GIS integration.

LASER CRACK MEASUREMENT SYSTEM

(LCMS) collects 3D distress imagery and transverse profile on a single lane at traffic speeds.

/ edge

RIGHT-OF-WAY (ROW) CAMERAS capture highdefinition images of roadway conditions and other assets.

> ROAD SURFACE PROFILER measures longitudinal profile.



APTech engineers use images and sensor measurements to identify and quantify distress, to calculate standard indices such as the Pavement Condition Index (PCI) and International Roughness Index (IRI), and ultimately to determine maintenance and repair needs that optimize and extend the life of the pavement network.

ROW IMAGE ROW IMAGE LCMS IMAGE

How are data used?

Clients use pavement condition data for many reasons, but the number one purpose involves making budgetary decisions. Up-todate condition data supports data-driven decision making, so data collection should be timely, complete, and accurate. APTech's EDGE provides your agency with the quality data required.



Dallas/Fort Worth International Airport Landside Roads Assessment

The Dallas/Fort Worth International Airport maintains over 268 lane miles of landside roadways. In order to forecast the cost and treatment timing for rehabilitation projects, APTech used this vehicle to efficiently gather information, with minimal impact on the airport's operations.

US Navy Installation Pavement Condition Surveys

APTech's van collected condition information on more than 50 million square feet of roadway pavement at eight Navy installations. The data were used to determine PCI, IRI, and Ride Numbers, which were used to plan work needs and allocate funds.

John F. Kennedy International Airport Airside and Landside Pavement Management Update

APTech performed PCI surveys using automated video imaging technology, developed a PAVER database, and evaluated the foreign object damage potential of shoulder and blast pavements adjacent to the airfield surveyed sections.

DISTANCE MEASURING INSTRUMENT records pavement stationing.