



OPTIX

TECHNOLOGIES

**INCREASE EFFICIENCY.
REDUCE WASTE.
SAVE MONEY.**

THE ULTIMATE DIGITAL ECOSYSTEM FOR THE GREEN INDUSTRY

ABOUT OPTIX

OptiX Technologies has created an ecosystem that consists of physical field devices, mobile and cloud-based software and associated interface equipment that is used not only for tracking and reporting the proper use of chemicals but to manage and track where seedlings are located, plant viability tracking, fleet and equipment tracking, customer management, inventory management and many other tools that support properly operating in the green industry. The entire ecosystem is centered around a cloud-based software package that provides functionality like CRM, scheduling, routing, logging, reporting and mapping. Smart field devices such as flow meters, spray guns and planting devices provide valuable information like applied chemical volume, temperature, direction and pattern of spray, path traveled, areas covered and location of trees planted.

INTRODUCTION

OptiX Technologies would like to present the BPX line of backpack sprayer tracker devices which was developed for the green industry and vegetation management industries. This device was designed to mount on any, commercially available, electric or mechanical, backpack sprayer. This device has the ability to accurately track the location of the applicator, liquid flow and liquid pressure of the product being sprayed. With all of this information, the OptiX system can produce maps indicating where product was applied, how much, who applied them and when it was applied. Map indicators show where product was over or under applied. It will also calculate the total quantity of product sprayed for a given time period, location, area or job.

This data is recorded and stored in a database that can be later used to generate many different types of regulated and non-regulated reports.





BPX DEVICE

- Collects spot treat and broadcast data from hand-held spray units and backpacks, holding technicians accountable to properly apply products at minimal amounts needed to achieve desired control and eliminate wasteful over-applications.
- Tracks low volume liquid applications and projects that collected application data onto an easy to read digital map, in near real time.
- Helps technicians follow guidelines for consistent product application and accurately tracks their path and location to improve accountability and create a safer environment.

MODELS

The BPX device is offered in two styles, the first of which can be installed on standard commercially available backpacks, and a custom version that can be integrated into an OEM manufacturer's backpack or potentially other devices. Contact us for more information about custom integration services.



MOUNTING

The standard BPX device is mounted utilizing a brand and model specific bracket which is typically mounted around the neck of the backpack. The spray hose is plumbed into the BPX from the backpack and the spray wand as plumbed from the BPX to allow the product to pass through the BPX device. The device is mounted in a way that does not impede the operator's use of the backpack or cause snagging when walking through vegetation.

TECHNICAL INFORMATION

The BPX backpack data collectors are battery powered devices which use a rechargeable lithium-ion battery as their power source. The factory supplied battery will power the device for at least 24 hours of continuous use and can typically be charged between 300 to 500 times when used and stored according to the supplied documentation.

The BPX uses various wireless communication technologies, such as Bluetooth, WiFi and LTE, to communicate with any mobile device for configuration and data log retrieval.

As an optional service, some devices implement LTE connectivity to provide real time operator tracking and remote configuration.

Optionally, the BPX contains a long-range wireless radio which allows operators that work in rough/remote locations to be easily tracked from a vehicle mounted base station. With a separately purchased, vehicle mounted, base station, a foreman or supervisor may monitor the location of their team members up to a distance of one-half mile. This information is shown on a map in the OptiX mobile app.