



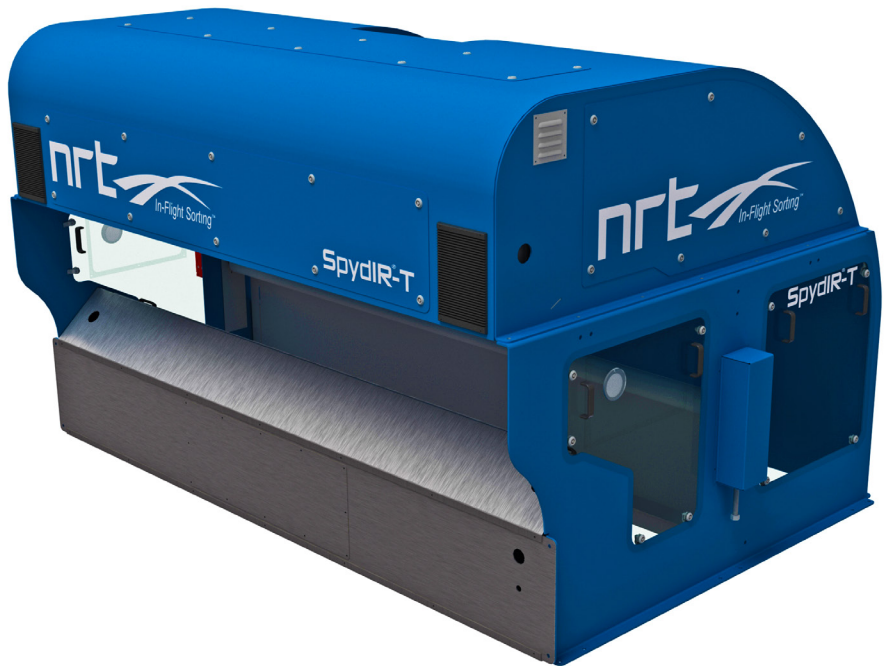
SpyDIR[®]-T



Overview The SpyDIR[®] is an advanced infrared sorting system that separates numerous selected polymers from a mixed stream. It uses proprietary technology and fast, highly sensitive algorithms to rapidly identify unique polymer “signatures” from their infrared spectra. SpyDIR[®] is the only technology that uses NRT’s patented PET Boost™ to improve detection of thin-wall, wet and full-sleeve labeled PET. While other optical sorters detect material over the belt and eject sometime later, NRT offers In-Flight Sorting[®], which detects and ejects material in flight. In-Flight Sorting[®] enables the use of transmissive detection for a 100x stronger signal, continuous auto-calibration, and eliminates motion-related error and belt interference, increasing hit rate and purity levels.



SpydIR®-T



Technology

NIR identification of multiple polymer types

In-Flight Sorting® enables use of transmissive detection for robust signal

Proprietary infrared sensing technology and algorithms for rapid detection

Operator-friendly color touch screen graphic control panel

PET Boost™ technology improves detection of thin wall PET, wet PET and full-sleeve PET

Applications

Sorts 1-7 plastics in any combination

Single sort high purity clear and light blue PET directly from container stream

Remove polymer contaminants from a PET container stream with high accuracy including PVC, PS, PETG, PLA, PC, PE, PP and other polymers in any combination

Recover clean PET product from polymer residue streams for return to main PET stream

Features

Industry leading signal-to-noise ratio is ideal for thin-wall PET

In-Flight Sorting® provides industry leading purity and hit rates

Flexibility to change selected polymers

High speed identification with throughput rates exceeding 16,000 lb/hr

Low maintenance requirements

Remote diagnostics, adjustments and upgrades

Width sizes from 36" to 120"

