



TOMRA | FOOD



compac



SPECTRIM SYSTEM

SUNKIST UPGRADE

Sunkist Upgrade

Upgrade your Sunkist Grader with Spectrim Inspection Technology and take your pack to a new level of quality and profits.

The most powerful citrus inspection system in the industry, Compac Spectrim, can be installed on existing Sunkist sizers to deliver a major boost to your pack accuracy and yield. With Spectrim you can achieve your grading objectives with greater efficiency and increase the profitability of your operation.

Compac has developed a complete turnkey process specifically designed to integrate Spectrim inspection technology on Sunkist CAB and Gold Rush graders. This includes a technology upgrade of the grader electronics and mechanical integration of the Spectrim cabinet on the grader lanes, followed by training, full commissioning and servicing of the upgraded line. Your existing grader will transform into a state of the art citrus inspection system ready to support your pack requirements into the future. This includes a powerful suite of reporting capabilities to generate existing Sunkist report formats, plus many more fruit quality and productivity reports in addition. Using this process, over 100 lanes of third-party sizers have successfully been upgraded by Compac to leverage the value of Spectrim inspection.



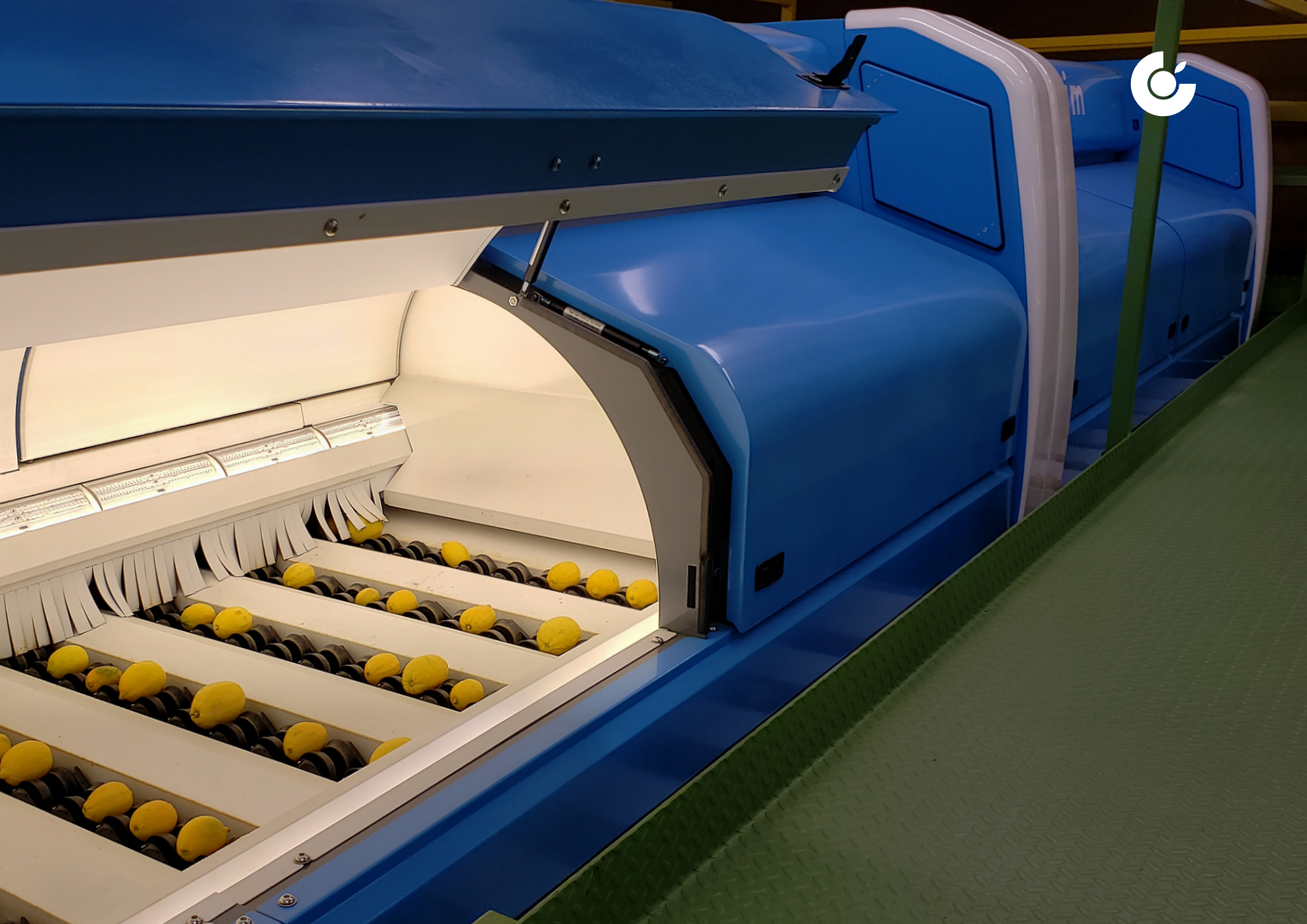
UNMATCHED GRADING ACCURACY AND PERFORMANCE

Spectrim is the most powerful inspection system available for citrus fruit grading, allowing you to precisely achieve your pack objectives at maximum yield and operating efficiency. Simply put, with Spectrim you will pack more boxes with the fruit quality that your customers demand.

NEXT-GENERATION INSPECTION TECHNOLOGY

Spectrim features proprietary sensor technology from TOMRA Compac, the leader in food inspection systems. Spectrim cameras generate up to 500 high-resolution, high-fidelity images covering the full surface of each piece of fruit. Spectrim uses a unique combination of wavelengths in the visible and near infrared space to maximize the contrast between good fruit skin and the various types of defects that can appear on its surface.

Uniformity of lighting is critical to effective imaging and detection accuracy. Spectrim LED technology diffuses lighting in a unique way to prevent shadowing effects and reflections across lanes. This allows the Spectrim cameras to generate ultra high-fidelity images for consistently accurate grading results.



POWERFUL SOFTWARE THAT IS EASY TO USE

Spectrim vision software combines power and flexibility to achieve your pack objectives, with intuitive operation and an easy to use operator interface. Intelligent features like SmartSkin and SmartMap leverage advanced self-learning algorithms to streamline the process of developing effective grade maps.

With SmartSkin the operator uses a simple point-and-click process to teach the system how to differentiate between good fruit skin and surface defects. The SmartMap feature then automatically classifies the various defect categories into powerful, accurate grade maps.

A MODULAR PLATFORM THAT EVOLVES WITH YOUR NEEDS

Spectrim was engineered from the ground up as a scalable platform capable of integrating hardware and software upgrades as new technology solutions become available. The Spectrim platform can evolve in step with your requirements to extend the value of your investment well into the future.

DESIGNED FOR HYGIENE AND SERVICEABILITY

With design features and construction materials to facilitate the cleaning process, Spectrim promotes food trust with your customers and supply chain partners. Easy access and quick-replacement components help Spectrim reduce service costs and deliver superior up-time performance.

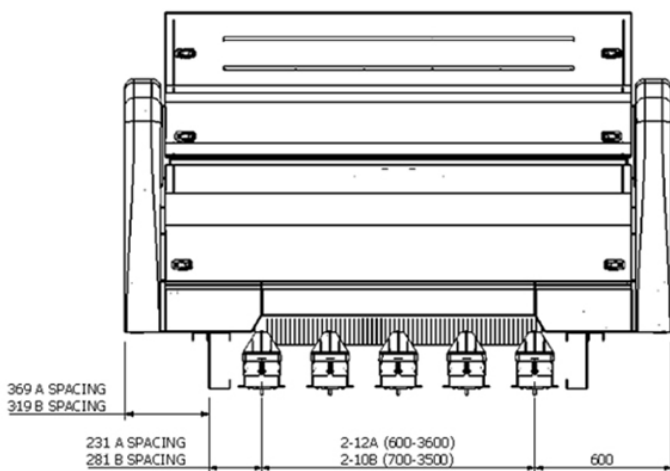
Compac Spectrim Capabilities

	SIZE	SHAPE	COLOR	BLEMISH
ORANGES	•	•	•	•
MANDARINS	•	•	•	•
LEMONS	•	•	•	•
LIMES	•	•	•	•

Specifications

MECHANICAL COMPATIBILITY		ENVIRONMENT	
Sizer Type	-Sunkist CAB -Sunkist Gold Rush	Operating Temperature	+0 ~ 40°C
Carriers		Storage Temperature	-10 ~ 60°C
MLS Configuration		Operating Humidity	5 ~ 95% (non-condensing) at 40°C
COMMODITIES		POWER	
Type	Apples, citrus, stonefruit, kiwifruit, avocados, tomatoes	Power Input	200-500V, AC 3-phase, 40A
Max Size	Max fruit diameter 120mm	Protection	D-type circuit breaker to be fitted
		Consumption	Less than 1A/lane at 400VAC

Dimensions



The above specifications are dependent on produce sorted and machine configuration. They are subject to change without notice due to continuous developments.