RFID Tunnel

CK-TP2D



The compact RFID tunnel reader is a smart, mid-scale verification solution designed for semi-automated inventory management. Its enclosed reading chamber with an automatic roller door provides complete radio-frequency (RF) isolation, eliminating false reads from nearby items. An infrared-sensor conveyor moves products into the shielded chamber for accurate bulk RFID reading, then returns them after verification. With a 14-inch touchscreen and dual operating system support, it streamlines inbound/outbound processes, reduces operational workload and improves inventory accuracy for small and medium boxes.

Main features:

- 14” capacitive touchscreen
- Multiple communication interfaces: RJ45, RS232, USB, alarm input, etc.
- Supports multiple devices in parallel
- Conveyor belt speed: 33–50 cm/s
- Real-time list generation for easy management
- Optional system: Windows / Android

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RF Specifications

Identification method	UHF
RF chip	Impinj R2000
Frequency range	840 MHz – 960 MHz (adjustable)
Protocols	EPC C1G2, ISO 18000-6B, ISO 18000-6C
Frequency bands (optional)	ETSI: 865–868 MHzJP: 916.8–920.4 MHzTW: 922.25–927.75 MHzID: 923.125–925.125 MHzRUS: 866.6–867.4 MHzTEST: 802.75–998.75 MHzJP_LBT: 916.8–920.8 MHz
RFID reader power	33 dBm ±1 dBm (max.)
Read time	3 seconds
Read capacity	400+ tags
Functions	RFID reading, multi-tag identification, data filtering, unit counting

Hardware Specifications

Operating system	Windows / Android (optional)
Hardware	CPU i5, 4GB RAM, 128GB ROM
Alternative	RK3399, 4GB RAM, 16GB ROM
Display	10.1” capacitive touch
Communication	RJ45, RS232, USB

Optional Functions

Audible and light alarm	Standard
CCTV camera	Optional
Wireless network	WiFi / 4G

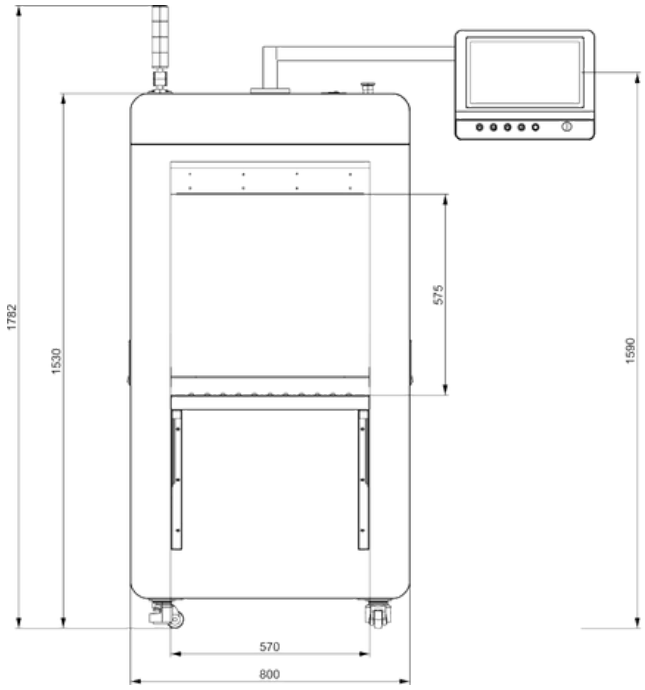
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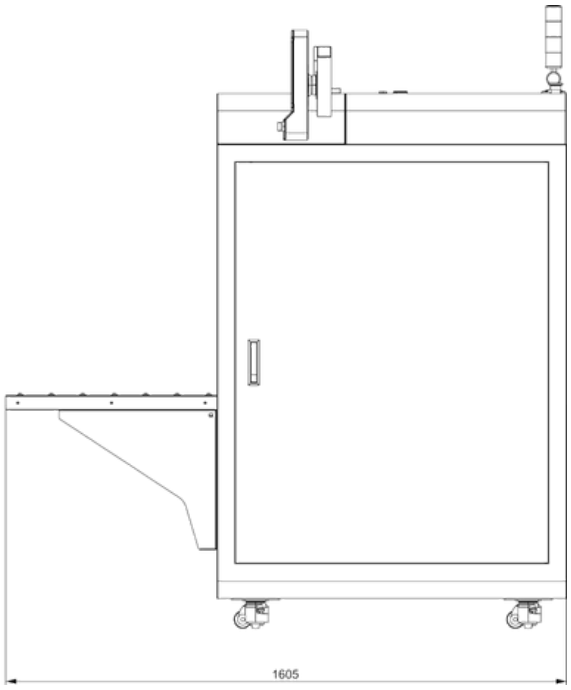
Basic Specifications

Material	Metal with electrostatic paint
Conveyor speed	33–50 cm/s
Load capacity	50 kg (max.)
Power	AC 110–220V / 100W
Operating humidity	10% – 90% RH
Operating temperature	0°C – 60°C
Dimensions	800 × 1782 × 1605 mm
Internal space	570 × 575 × 800 mm
Maximum box size	500 × 500 × 750 mm

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Dimensions





Unit: mm (inch)
Weight: approx. 150 kg

Common applications

- Smart libraries
- Document archives
- Tool management
- Supermarkets
- Other logistics environments

Accessories

№	Name	Unit	Quantity
1	Power supply	pcs	1

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