RACE PiTV
Product In Tote Vision
Track and Prove Packing

UMD's RACE PiTV (Product In Tote Vision) is an industrial-grade platform which utilises video recordings for quality assurance in packing and process monitoring. RACE PiTV captures customer orders linked to barcodes or RFID tags associated with a tote. As the tote progresses through multiple RACE PiTV Stations, the platform records videos of its contents in the fulfillment process. The RACE PiTV Dashboard enables users to retrieve all related videos by searching for a specific customer order. The dashboard visually displays items as they accumulate at each station, where users can download these videos as proof of packing for customers. The RACE PiTV Server software is installed on-premise either on the customer's infrastructure or as a stand-alone PC appliance.
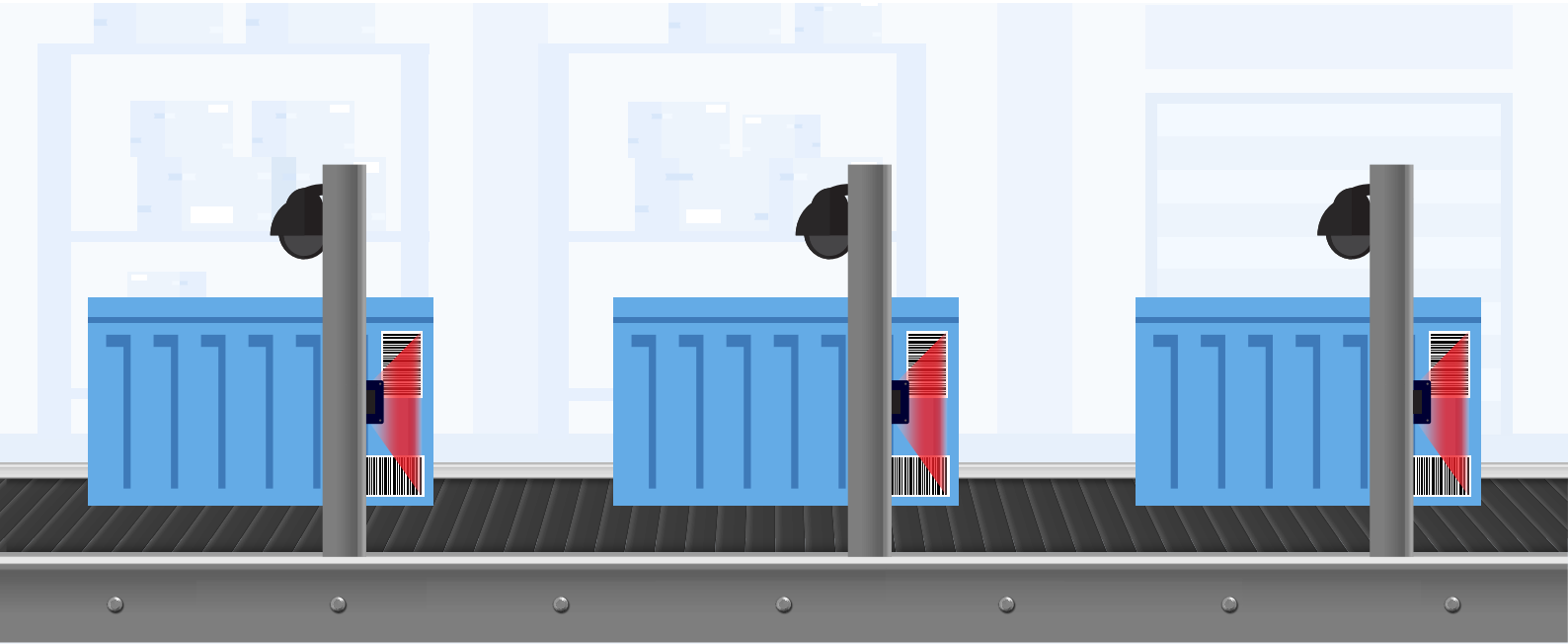
Use Cases:

- Content loss/tamper security recording
- Proof of Order Fulfilment
- Quality Assurance
- Customer experience (Journey Tracking)

Features:

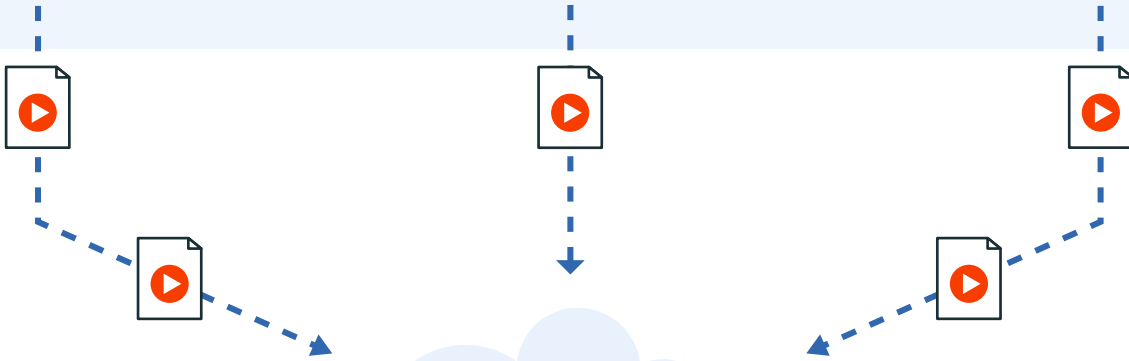|	
Platform	• Customised to client requirements • Barcode and RFID readers, camera, lens and lighting chosen for the environment
RACE PiTV Station	• Portal designed and constructed to meet with your environment • Multiple stations are networked to a single RACE PiTV Server instance
RACE PiTV Server	• Linux or Windows • Controls multiple RACE PiTV Stations • Hosted on-premise • Dashboard view by web browser • Customer infrastructure or PC Appliance • Can be customised
Optional	• RACE Insight cloud service provides data aggregation, analytics and integrations

RACE PiTV Overview:

Station 1

Station 2

Station 3

RACE PiTV
Server

20250326_114445_8AE0_B8A44F31335F

[DATA] 14.03
CI: 12345678
LP: 00112233445566778899

0:14 / 0:18

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Access video files and screenshots