

MOBILE EMERGENCY SIMULATION TRAINING UNIT

Doron 460 + Doron 550 Dual-Simulator Package

Self-Contained 36-Foot Commercial Trailer

SYSTEM OVERVIEW

Complete, self-contained mobile simulation training facility mounted in a 36-foot commercial 5th wheel trailer. The system includes two Doron Precision Systems fire truck driving simulators, an IWS Instructor Workstation, a Clear-Com MS-704 4-channel professional dispatch intercom system, and an onboard diesel generator. Fully autonomous — no external power, infrastructure or fixed installation required.

SIMULATOR SPECIFICATIONS

Doron 460 — Primary Simulator

Feature	Specification
Cab Structure	Full-size fire truck cab replica — steel frame construction
Visual Display	High-resolution multi-channel video system — real-time rendering
Brake System	Simulated air brakes — progressive pressure and brake failure simulation
Emergency Lighting	Code 3 emergency lighting system — fully integrated in cab
Audio	Air horn and emergency siren — foot-activated pedal controls
Driver Seat	Air suspension seat
Communication	Two-way radio integrated in dashboard
Instrument Panel	Full dashboard — speedometer, tachometer, temperature, oil pressure, brake pressure gauges
Fault Simulation	Instructor-triggered mechanical failure panel — brake failure, steering loss, overheating
Instructor Station	Built-in instructor seat inside cab
Transmission	Push-button automatic transmission
Network	Linked to Doron 550 and IWS — integrated real-time operation

Doron 550 — Secondary Simulator

Feature	Specification
Cab Structure	Full-size fire truck cab replica with complete physical controls
Visual Display	High-resolution multi-channel video system — real-time rendering

Brake System	Simulated air brakes — progressive pressure and brake failure simulation
Emergency Lighting	Code 3 emergency lighting system — integrated in cab
Audio	Air horn and emergency siren — foot-activated pedal controls
Driver Seat	Air suspension seat
Communication	Two-way radio integrated in dashboard
Fault Simulation	Instructor-triggered mechanical failure panel
Network	Linked to Doron 460 and IWS — seamless integrated operation
Simultaneous Training	Allows two drivers to train under the same scenario simultaneously

IWS — INSTRUCTOR WORKSTATION

Feature	Specification
Evaluation Monitor	Dedicated monitor — displays driver view in real time
Scenario Control	Real-time control: weather, visibility, mechanical failures, obstacles, emergency events
Session Recording	Automatic logging — speed, braking, reaction time, errors, violations per session
Performance Records	Individual digital records per operator — cumulative across all sessions
Report Generation	Automatic performance report output with objective scoring data
Fault Injection	Triggers specific mechanical failures during live training — brake failure, steering loss, overheating
Scoring Engine	Automatic scoring against pre-defined technical parameters
Security	Computer in key-secured lockable compartment
Capacity	Links up to four simulators simultaneously from one console

CLEAR-COM MS-704 — DISPATCH INTERCOM SYSTEM

Feature	Specification
Model	Clear-Com MS-704
Channels	4-channel professional intercom station
Instructor Equipment	Professional desk microphone + professional headset
Simulator Integration	Factory-wired into dashboard radio of both simulator cabs
Function	Instructor operates as dispatcher; trainees receive and respond to emergency radio calls from ins

TRAILER SPECIFICATIONS

Specification	Detail
Type	5th Wheel Commercial Trailer — commercial-grade steel frame
Year / Make	2008 Rolli
VIN	1R9US36208B295862
Overall Length	36 feet (10.97 m)
Width	8 ft 2 in (2.49 m)
Interior Height	Approx. 7 ft (2.13 m)
Interior Finish	Drop ceiling — office-grade finish
Wall Treatment	Acoustic interior wall panels
Flooring	Diamond-plate industrial anti-slip flooring
Interior Lighting	Full interior lighting system
Exterior Lighting	Exterior work lighting — supports night operations
Security	Integrated alarm system
Climate Control	Air conditioning with digital thermostat
External Power	240V / 50 Amp external electrical connection
Reserve Power	3 integrated backup batteries
Title	Clean title — current

ONBOARD GENERATOR — ONAN CMQD 12000

Specification	Detail
Make / Model	Cummins Onan CMQD 12000
Engine	Kubota D1703 Diesel — 1.7L
Output	12,000 watts (12 kW)
Voltage	120V / 240V
Phase	Single-phase
Emission Certification	Tier 2 EPA + California CARB
Total Hours of Use	99 hours
Operational Status	Starts and operates correctly

COMPLETE UNIT CONTENTS

- Doron 460 Simulator — complete
- Doron 550 Simulator — complete
- IWS Instructor Workstation with dedicated evaluation monitor
- Clear-Com MS-704 4-channel intercom station
- Clear-Com professional desk microphone
- Professional instructor headset
- 2008 Rolli 36-foot 5th wheel commercial trailer (VIN: 1R9US36208B295862)
- Onan CMQD 12000 onboard generator — 99 hours total use
- Kubota D1703 diesel engine
- Air conditioning system with digital thermostat
- 3 integrated reserve batteries
- 240V / 50 Amp external electrical connection
- Interior and exterior lighting systems
- Integrated security alarm
- All original interior wiring and infrastructure
- Original Doron operation manuals
- Original startup software CD

SERVICE RECORD

The system received official factory service in 2014, documented in Doron Precision Systems Service Report No. DSR-1-680. The report was completed by a Doron factory technician and covers:

- Full equipment inspection and inventory
- Visual display systems verification
- Computer systems review and testing
- System declared fully operational upon completion

Service Report DSR-1-680 is included with the unit.