

Restore critical communications within MINUTES after disaster strikes.

# Secure Mobile Radio Sites



# Increase your communication capabilities for emergencies and scheduled events with a Secure Mobile Radio Site from Pepro.

We are the leading manufacturer of patented shielded enclosure systems for mission critical communications for first responders, emergency medical services (EMS), fire and rescue services and law enforcement agencies. Our enclosures have provided a secure environment without loss or upset of sensitive radio equipment for over 18 years.

## **Be Ready. Be Prepared.**

Tornadoes, hurricanes, lightning strikes, floods and fires are all forms of natural disasters that can strike your community at any time. Be ready and be prepared to restore your mission critical communications with a Pepro Secure Mobile Radio Site.

## **A Mobile Shielded System For Your Application.**

Our patented mobile radio sites are designed for emergency communications, portable mobile communications, incident command posts, remote base stations, Cell-on-Wheels (COW), Site-on-Wheels (SOW), Mobile Tower Units (MTUs), and other unique applications.

## **Technical Specifications** Independent Laboratory-Tested Protection Levels

### **RFI**

70 dB rating from  
20 MHz to 3.29 GHz

### **LIGHTNING**

Over 1 Million volt, 87,000 amp  
direct strike on enclosure with less than  
10 microjoule penetration inside enclosure

### **EMI**

40dB  
Magnetic Field

Testing performed by Lightning Technologies, Inc. and National Technical Systems, Inc.

## **Standard Equipment Features**



### **Towers**

All Pepro towers feature an unguyed articulated design that can withstand up to 120 mph winds (TIA/EIA-222-G), depending on deployment configuration. Our towers will accommodate multiple antennas with vertical separation. Antenna harnesses are custom made for each customer and permanently affixed to the tower. Antenna mounting and radio 'tuning' adjustments can be done from the ground increasing safety and saving costly installation time.



### **Generators**

Each Pepro secure mobile radio site comes with its own constant speed generator. Generators range in size from 8.5kw to 40kw.

### **Trailers**

Pepro trailers range in size from 16' to 32' in length and come in either tandem axle or tri-axle configurations. Units with steel decks have an anti-slip coating applied to them.



### **HVAC Systems**

Pepro integrates HVAC systems into each mobile radio site that is specifically designed for use with sensitive electronic and communication equipment. These are closed loop systems, which prevent outside air from entering into the equipment shelter. The Pepro Commander® Series features redundant units that are controlled by a lead/lag thermostat.

## Standard Equipment Features



### Shelters/Enclosures

Each Pepro shielded enclosure is shock-mounted and features a modular aluminum all welded uni-body design. All openings have shielded gaskets to maintain our patented Faraday Cage design.

We offer two, three, or four-bay enclosures depending on your equipment requirements. Each equipment bay contains a 19" wide, fully adjustable rack that can accommodate 27 vertical rack units of radio equipment.



### Power Entry Box

Power enters the unit through this box (bottom box shown in above photo) from the integrated generator or shore power via the Meltric plug. A transfer switch allows the operator to select the power source. Additionally there is an outside quad box with a GFI outlet.

### Shielded Power Box

The Pepro Shielded Power Box (top box shown in above photo) protects the equipment housed within the shelter. Protection against power surges, EMI, EMP, and RFI through the use of Mu-Metal liners, power filters and surge suppressors.



### Power Module

The Power Module houses the load center, an equipment rack, thermostat, and lead/lag controller. The load center distributes filtered power throughout the shelter. The 19" wide equipment rack is fully adjustable. The thermostat and lead/lag controller work together to maintain the proper temperature.



### Temperature Control/ Cable Entry Module

The HVAC units and cable entry ports are located on this module. The Cable Entry Glands and Data Entry Module mount to the ports. These devices protect against lightning surges penetrating the equipment shelter.



### Direct Current (DC) Power Box

The DC box converts AC voltage to DC voltage and supplies power to the Pepro Pan and Tilt Directional Mount as well as the front area lights, strobe light, and front jacks. It also houses an integrated safety flasher system for use when the unit is deployed.



### Hydraulic Box (Pepro Commander series only)

Houses all hydraulic equipment required to raise and lower the tower. This keeps all hydraulics in one place tucked away from electrical equipment.



	<b>BRAVE</b> SMRS-450.CLP2	<b>SCOUT</b> SMRS-500.CLP2
<b>General Specifications:</b>		
Trailer length	14 ft.	18 ft.
Hitch type	Bumper	Bumper
Trailer width	95.5 inches	95.5 inches
Trailer GVWR	9,996	9,980
Axles	2	2
Spare tire	Yes	Yes
Brakes	Electric	Electric
Leveling jacks	4	4
Tongue jack	1	1
Jack operation	Manual	Manual
Net weight, No radio equipment	6,000 #'s	8,000 #'s
Tongue weight (approx.)	720 #'s	1000 #'s
<b>Enclosure:</b>		
Bays, aluminum welded unibody construction	2-Bay	2-Bay
Rack quantity	2 Racks	3 Racks
Pepro rack units	54 RU	81 RU
Internal lights	2	3
Cable entry ports	5	6
Cable entry glands	1	2
Cable entry cover plates	4	4
Smoke detector with interlock	N/A	Yes
Cable tray	Horizontal/ Vertical	Horizontal/ Vertical
Lockable fold down desk	N/A	Yes
Antenna cable (TMS LMR-600)	2	4
<b>Electrical:</b>		
120 VAC outlet circuits/bay	6	6
Load center 120/240 AC	30 amp	100 amp
Meltric plug (shore power)	Yes	Yes
Max customer equipment watt load	3000 (1500/rack)	6525 (2175/rack)
Total available amps from generator	35 amps	40 amps
Total available amps shore power	30 amps	100 amps
ACDATA surge suppressor	Yes	Yes
Transfer switch	Manual	Manual
<b>Air Conditioning with Thermostat:</b>		
Units	(1) 1/2 ton	(1) 1 Ton
Redundant with lead lag control	No	No
<b>Unguyed Tower:</b>		
Height (from ground to top of tower)	40 ft.	45 ft.
Sections	2	3
Raising method	Manual	Electric Winch
<b>Generator:</b>		
Size	8.5 kw	10 kw
Fuel, tank capacity	Diesel, 50 gal	Diesel, 60 gal

## Pepro Brave & Scout<sup>®</sup> Secure Mobile Radio Sites

The Brave & Scout are designed for quick response to mission critical requirements. Bumper pull, single person operation and full integration (tower, HVAC, generator, shore power, and RF cables) allow for installation and set-up to be completed within 30 minutes.

All Pepro products include our patented Faraday Cage protection which gives the customer the highest level of equipment protection against lightning, RFI, and EMI.



**LOW PROFILE  
SMRS-650.CLP3**

**General Specifications:**

Trailer length	21 ft.
Hitch type	Bumper
Trailer width	102 inches
Trailer GVWR	18,400
Axles	2
Spare tire	Yes
Brakes	Electric
Leveling jacks	4
Tongue jack	1
Jack operation	Hydraulic
Net weight, No radio equipment	13,000 #'s
Tongue weight (approx.)	1,965 #'s

**Enclosure:**

Bays, aluminum welded unibody construction	3-Bay
Rack quantity	4 Racks
Pepro rack units	108 RU
Internal lights	5
Cable entry ports	11
Cable entry glands	2
Cable entry cover plates	9
Smoke detector with interlock	Yes
Cable tray	Horizontal/Vertical
Lockable fold down desk	Yes
Antenna cable (TMS LMR-600)	4

**Electrical:**

120 VAC outlet circuits/bay	6
Load center 120/240 AC	100 amp
Meltric plug (shore power)	Yes
Max customer equipment watt load	7875 (2625/rack)
Total available amps from generator	50 amps
Total available amps shore power	100 amps
ACDATA surge suppressor	Yes
Transfer switch	Manual

**Air Conditioning with Thermostat:**

Units	(2) 1 ton
Redundant with lead lag control	Yes

**Unguyed Tower:**

Height (from ground to top of tower)	60 ft.
Sections	3
Raising method	Hydraulic

**Generator:**

Size	12 kw
Fuel, tank capacity	Diesel, 100 gal.

## Pepro Commander® Low Profile 650 LP Secure Mobile Radio Site

Our Low Profile (LP) version of the rugged Commander Series Secure Mobile Radio Site is designed with a lower center of gravity and deck height. This lower design allows for easier access to the radio equipment and tower when installing antennas and during deployment.

The LP is leveled by a four point hydraulic leveling system. The 60' articulated tower design allows for vertical separation of antennas, permanent attachment of custom antenna cable harness, and requires no guy wires. This unit comes with a redundant HVAC system that is controlled by an integrated thermostat and lead/lag system.



	<b>DROP DECK</b> SMRS-950.CLP4	<b>DECK OVER</b> SMRS-950.CLP4
<b>General Specifications:</b>		
Trailer length	27 ft.	27 ft.
Hitch type	Goose Neck	Goose Neck
Trailer width	96 inches	96 inches
Trailer GVWR	25,990	25,990
Axles	1	1
Spare tire	Yes	Yes
Brakes	Electric	Electric
Leveling jacks	4	4
Tongue jack	1	1
Operation	Hydraulic	Hydraulic
Net weight, No radio equipment	20,000 #'s	20,000 #'s
Tongue weight	8,000 #'s	8,000 #'s
Ground Clearance	12 inches	19 inches
<b>Enclosure:</b>		
Bays, aluminum welded unibody construction	4-Bay	4-Bay
Rack quantity	5 Racks	5 Racks
Pepro rack units	135 RU	135 RU
Internal lights	5	5
Cable entry ports	11	11
Cable entry glands	2	2
Cable entry cover plates	9	9
Smoke detector with interlock	Yes	Yes
Cable tray	Horizontal/Vertical	Horizontal/Vertical
Lockable fold down desk	Yes	Yes
Antenna cable (TMS LMR-600)	4	4
<b>Electrical:</b>		
120 VAC outlet circuits/bay	6	6
Load center 120/240 AC	100 amp	100 amp
Meltric plug (shore power)	Yes	Yes
Max customer equipment watt load	13,125 (2625/rack)	13,125 (2625/rack)
Total available amps from generator	83 amps	83 amps
Total available amps shore power	100 amps	100 amps
ACDATA surge suppressor	Yes	Yes
Transfer switch	Manual	Manual
<b>Air Conditioning with Thermostat:</b>		
Units	(2) 1.5 ton	(2) 1.5 ton
Redundant with lead lag control	Yes	Yes
<b>Unguyed Tower:</b>		
Height (from ground to top of tower)	90 ft.	90 ft.
Sections	4	4
Raising method	Hydraulic	Hydraulic
<b>Generator:</b>		
Size	20 kw	20 kw
Fuel, tank capacity	Diesel, 140 gal.	Diesel, 140 gal.

## **Pepro Commander® SMRS-950 Secure Mobile Radio Site**

Our Commander SMRS-950 is available in a deck-over or a drop deck trailer configuration. Each features a fifth-wheel or an optional gooseneck adapter hitch. These units are offered with a 90' tower and four equipment bays. The unguyed articulated tower is raised hydraulically in approximately three minutes. Fold out steps are provided on both sides of the deck-over unit for accessing the equipment bays. All commanders are equipped with hydraulic leveling jacks and feature a redundant HVAC system that is controlled by an integrated thermostat and lead/lag system.





**WMRS-1000**  
8x16x8 DDCN

<b>General Specifications:</b>	
Trailer length	32ft.
Hitch type	Goose Neck
Trailer width	96 inches
Trailer GVWR	35,000
Axles	2
Spare tire	Yes
Brakes	Electric/Air Option
Leveling jacks	4
Tongue jack	1
Jack operation	Hydraulic
Net weight, No radio equipment	28,000 #'s
Tongue weight (approx.)	8,400 #'s
<b>Enclosure:</b>	
Bays, aluminum welded unibody construction	8x16x8
Rock quantity	9-Seven Ft. Racks
Pepro rack units	432 Total RU
Internal lights	4-Four Ft. Fluorescent
Cable entry ports	12
Cable entry glands	2
Cable entry cover plates	10
Smoke detector with interlock	Yes
Cable tray	Yes
Lockable fold down desk	No
Antenna cable (TMS LMR-600)	4
<b>Electrical:</b>	
120 VAC outlet circuits/bay	4 Duplex Recept./Rock
Load center 120/240 AC	200 amp
Metric plug (shore power)	Yes
Max customer equipment watt load	26,300
Total available amps from generator	166 amps
Total available amps shore power	200 amps
ACDATA surge suppressor	Yes
Transfer switch	Automatic
<b>Air Conditioning with Thermostat:</b>	
Units	(2) 2.5 ton
Redundant with lead lag control	Yes
<b>Unguyed Tower:</b>	
Height (from ground to top of tower)	95 ft.
Sections	4
Raising method	Hydraulic
<b>Generator:</b>	
Size	40 kw
Fuel, tank capacity	Diesel, 140 gal.

## Pepro Commander® WMRS-1000 Secure Mobile Radio Site

Our Commander secure Walk-In Mobile Radio Site (WMRS) is the largest mobile unit that we offer and is staged on a drop-deck goose-neck trailer. The design of this unit allows it to serve as a "master site" or a dispatch center. The 95' articulated tower design allows for vertical separation of antennas, permanent attachment of custom antenna cable harness, and requires no guy wires. The 8'x 16'x 8' walk in shelter can hold up to nine 7' racks, dispatch desk, work bench, or a combination. It is rated at 400 lb/sq foot floor load and 200 lb/sq foot roof load. Standard equipment on the WMRS is a 40kW generator and an automatic transfer switch. A redundant HVAC system is controlled by an integrated thermostat and lead/lag system. Folding steps make it easy to access both the front and rear of the unit.



# HYBRID SITE ON WHEELS

The full line of Pepero mobile units can be configured as a hybrid powered system. Hybrid units incorporate the use of solar, battery, generator, and a shore power connection to increase stand alone run times.

All units are outfitted with a power distribution panel, an automatic generator start control module, a charge controller, dual battery chargers, equipment racks, and multiple ventilation options.

- ▶ Fully Integrated
- ▶ Easily Transported
- ▶ Rapidly Deployed
- ▶ Extended Run Time



Power Module



These products are covered under patent #'s 5,749,178; 7,046,521; 7,385,147 and 7,688,595 and all patents pending.  
Due to continuous product improvements, specifications and/or equipment changes may be made without prior notification.



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