

URC Line-of-Sight Antennas

Family of multi-use, multi-choice antennas.



LOS Antenna Applications

No matter what the operation, manpack ... fixed site ... mobile ... or helicopter, General Dynamics offers an impressive array of Line-of-Sight (LOS) Transceiver Antennas and Accessories that fully supports our URC-200 Transceiver in virtually every application. Put another way, our transceiver systems are as complete as they are reliable.

Our family of URC LOS Antennas and Accessories include whips ... dual-band ... tri-band ... and spring loaded designs.

At General Dynamics, we make it our mission to provide you with the tools, the flexibility and the dependability you need for your mission...no matter where it might be.

UVU-100

- Manpack antenna for backpack configuration

UVU-100S

- Spring-loaded mobile antenna

UVU-115

- Mobile or base station whip antenna and mount

UVU-130

- Mobile or base station whip antenna and mount

UVU-200

- Dual-band base station antenna

UVU-300

- Tri-band base station antenna

UVL-100

- Manpack antenna for 30 to 90 MHz backpack configuration

UVL-150

- Vehicle mounted, 30 to 90 MHz spring-loaded antenna

UVL-250

- Dual-band whip antenna and coupling system for helicopters

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C4 Systems


UVU-100 manpack antenna for backpack configuration

Part Number:	85-P35988M001		
Frequency:	VHF BAND: 115 to 174 MHz UHF BAND: 225 to 400 MHz		
Gain:	2.5 dBi @ 250 MHz		
VSWR:	2.5:1 or less		
Power:	30 Watts maximum		
Impedance:	50 (nominal)		
Polarization:	Vertical		
Pattern:	Omni-directional		
Height:	14 inches (overall)		
Weight:	One pound maximum		
Connector:	VHF/UHF Bands, One BNC male		
Mounting:	A threaded sleeve on the connector secures the antenna to a URC-200, URC-500, or PET-2000		
Construction Features:	Radiator covering is dull black insulation tubing Antenna base has a lockable swivel to maintain an optimum vertical polarization		
Optional Accessories:	UVU-110 Vehicular Mounting Kit, which includes a UVU-100 antenna, vehicle mount and 20 feet of antenna cable; part number 85-P36002M001		

UVU-100S spring-loaded mobile antenna

Part Number:	85-P39217N001	
Frequency:	VHF BAND: 115 to 174 MHz UHF BAND: 225 to 400 MHz	
Gain:	Unity	
VSWR:	2.5:1 or less	
Power:	30 Watts maximum	
Impedance:	50 (nominal)	
Polarization:	Vertical	
Pattern:	Omni-directional	
Height:	14 inches	
Weight:	One pound maximum	
Connector:	VHF/UHF Bands, One BNC male	
Mounting:	A threaded sleeve on the connector secures the antenna to a URC-200, URC-500, or PET-2000	
Construction Features:	Radiator is aluminum tubing with black epoxy finish Antenna base has a self-righting break-away joint to prevent damage when struck by moving objects	
Optional Accessories:	UVU-110S Light Duty Vehicular Mounting Kit, which includes a UVU-100S antenna, vehicle mount and 20 feet of antenna cable; part number 85-P39221N001	

UVU-115 mobile or base station whip antenna and mount

Part Number:	01-P35859M001	
Frequency:	VHF BAND: 115 to 174 MHz UHF BAND: 225 to 400 MHz	
Gain:	Unity (compared to co-located 1/4 wave monopole)	
VSWR:	2.5:1 or less	
Power:	50 Watts CW and PEP	
Impedance:	50 (nominal)	
Polarization:	Vertical	
Pattern:	Omni-directional	
Height:	22.5 inches (Low Profile)	
Weight:	4 pounds	
Connector:	VHF/UHF Bands, One Type N female	
Mounting:	Universal adjustable flange mount	
Optional Accessories:	For Base Station Applications: URF-B61-LLL Heliac Antenna Cable Set, part number 30-P37421K011LLL (Note: "LLL" = length of cable in feet) For Vehicular Applications: URF-V61-LLL Heliac Antenna Cable Set, part number 30P37421K021LLL (Note: "LLL" = length of cable in feet)	

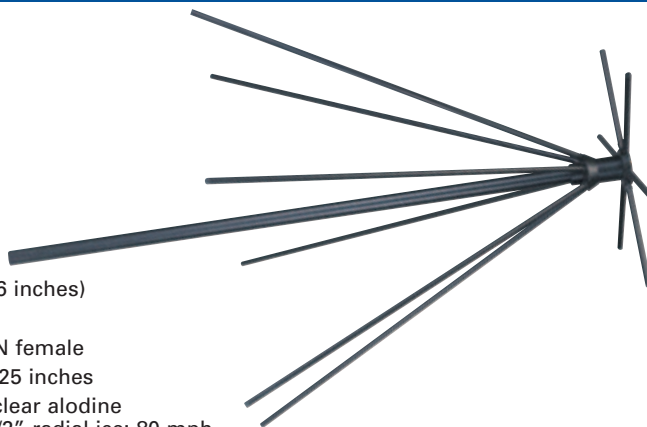
UVU-130 mobile or base station whip antenna and mount

Part Number:	01-P35858M001
Frequency:	VHF BAND: 115 to 174 MHz UHF BAND: 225 to 400 MHz
Gain:	2.5 dBi (compared to a 1/4 wave monopole) – High Gain
VSWR:	2.5:1 or less
Power:	50 Watts CW and PEP
Impedance:	50 (nominal)
Polarization:	Vertical
Pattern:	Omni-directional
Height:	39 inches
Weight:	7 pounds, 14 ounces
Connector:	VHF/UHF Bands, One Type N female
Mounting:	Universal adjustable flange mount
Optional Accessories:	For Base Station Applications: URF-B61-LLL Helix Antenna Cable Set, part number 30P37421K011LLL (Note: "LLL" = length of cable in feet) For Vehicular Applications: URF-V61-LLL Helix Antenna Cable Set, part number 30P37421K021LLL (Note: "LLL" = length of cable in feet)



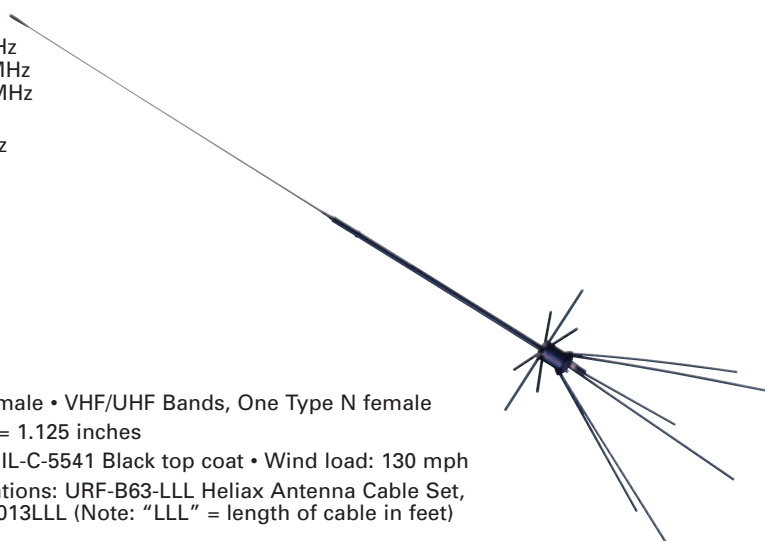
UVU-200 dual-band base station antenna

Part Number:	85-P35990M001
Frequency:	VHF BAND: 113 to 174 MHz UHF BAND: 225 to 420 MHz
Gain:	Unity to +2.5 dBi (nominal)
VSWR:	2.5:1 or less
Power:	250 Watts CW and PEP
Impedance:	50 (nominal)
Polarization:	Vertical
Pattern:	Omni-directional
Height:	54 inches (cone diameter: 36 inches)
Weight:	7 pounds
Connector:	VHF/UHF Bands, One Type N female
Mounting:	Antenna mast diameter = 1.25 inches
Construction Features:	6061-T6 aluminum; coated clear alodine Wind load: 115 mph; with 1/2" radial ice: 80 mph
Optional Accessories:	For Base Station Applications: URF-B61-LLL Helix Antenna Cable Set, part number 30P37421K011LLL (Note: "LLL" = length of cable in feet)



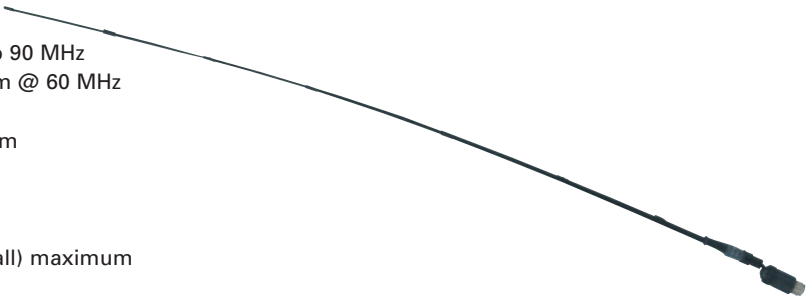
UVU-300 tri-band base station antenna

Part Number:	85-P35637J001
Frequency:	LVHF BAND: 30 to 90 MHz VHF BAND: 110 to 174 MHz UHF BAND: 225 to 400 MHz
Gain:	-6 dBi @ 30 to 88 MHz +1 dBi @ 110 to 174 MHz 0 dBi @ 225 to 400 MHz
VSWR:	2.5:1 or less
Power:	50 Watts
Impedance:	50 (nominal)
Polarization:	Vertical
Pattern:	Omni-directional
Height:	121.6 inches
Weight:	11 pounds
Connector:	LVHF Band, One BNC female • VHF/UHF Bands, One Type N female
Mounting:	Antenna mast diameter = 1.125 inches
Construction Features:	Finish: Chem Film per MIL-C-5541 Black top coat • Wind load: 130 mph
Optional Accessories:	For Base Station Applications: URF-B63-LLL Helix Antenna Cable Set, part number 30P37421K013LLL (Note: "LLL" = length of cable in feet)



UVL-100 manpack antenna for backpack configuration

Part Number:	10454
Frequency:	LVHF BAND: 30 to 90 MHz
Gain:	1.68 dBi maximum @ 60 MHz
VSWR:	2.5:1
Power:	30 Watts maximum
Impedance:	50 (nominal)
Polarization:	Vertical
Pattern:	Omni-directional
Height:	50.5 inches (overall) maximum
Weight:	One pound
Connector:	LVHF Band, One Type N male
Mounting:	Type N connector threads
Construction Features:	Finish: Black oxide Radiator is flexible, allowing fold-up storage with a spring back return action Antenna base has a lockable swivel to maintain an optimum vertical polarization



UVL-150 vehicle mounted, spring loaded antenna

Part Number:	85-P35638J001
Frequency:	LVHF BAND: 30 to 90 MHz
Gain:	Not less than -3.0 dBi
VSWR:	3.0:1
Power:	50 Watts maximum
Impedance:	50 (nominal)
Polarization:	Vertical
Pattern:	Omni-directional
Height:	78 inches
Weight:	5 pounds
Connector:	LVHF Band, One BNC female
Mounting:	Flange mount (requires a 3.25" diameter hole)
Construction Features:	Finish: Epoxy paint per MIL-C-22750, color #24087, Olive drab per FED-STD-595 Requires no external matching or coupling device
Optional Accessories:	For Base Station Applications: URF-V61-LLL Helix Antenna Cable Set, part number 30P37421K021LLL (Note: "LLL" = length of cable in feet) For Vehicular Applications: URF-V61-LLL Helix Antenna Cable Set, part number 30P37421K021LLL (Note: "LLL" = length of cable in feet)



UVL-250 whip antenna and coupling system for UH-60 helicopter

Part Number:	85-P35639J001
Frequency:	LVHF BAND: 30 to 90 MHz • VHF BAND: 113 to 152 MHz
Gain:	-2 dBi @ 30 MHz • +2 dBi @ 60 MHz • -1.5 dBi @ 88 MHz • -2.3 dBi Average @ 108 to 152 MHz
VSWR:	3:1 or less
Power:	70 Watts
Impedance:	50 (nominal)
Polarization:	Vertical
Pattern:	Omni-directional
Height:	55.8 inches
Weight:	1.5 pounds maximum
Connector:	LVHF/VHF bands, One BNC female
Mounting:	Flange mount
Construction Features:	Finish: Epoxy paint per MIL-C-22750, color #24087, Olive drab per FED-STD-595
Optional Accessories:	For Aircraft Applications: URF-A61-LLL Helix Antenna Cable Set, part number 30P37421K001LLL (Note: "LLL" = length of cable in feet)



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