SVR-350 GUARDIAN The Scalable Vehicular Repeater

- SIMPLEX COVERAGE
- 2 WATT COVERAGE
- ESP™ PRIORITY STRUCTURE
- P25 SMART TRUNKING™ / EVRS
- ANALOG & P25 EMERGENCY
- P25 PHASE 1 COMPLIANT
- AES/DES ENCRYPTION **OPTIONS**

- ▲ **SVR-200** and **SVR-250 Compatable**
- ▲ **P25 Upgradable** In The Field
- ▲ **SVR-P250** and **SVR-P255 Compatable** with P25 Option
- ▲ **Software Configured Audio Levels** and **Jumpers**
- ▲ **ESP™** Multi-Vehicle Format
- ▲ Available in **VHF, UHF, 700 & 800 Mhz** Models
- ▲ **Seamless Trunking Handshake** with **EVRS** Option
- ▲ **Factory Interface Cables** for Most Popular **Public Safety Radios**

SVR-**350™ Guardian™** Analog and P25 Vehicular Repeater

The SVR-**350™ Guardian™** is the latest and most advanced simplex vehicular repeater from Pyramid Communications. This is the first vehicular repeater offered by Pyramid that is scalable from a full featured analog unit to a digital P25 unit later. Optional **Software Feature Keys (SFK)** can add capabilities like P25 digital operation, AES/DES Encryption, EVRS and more!

In analog mode, the unit is fully backwards compatable with SVR-**200™** and SVR-**250™** analog systems. Users can enjoy a budget friendly entry to the SVR product line with the option to add **APCO Project 25** Phase 1 digital, and enjoy clear and secure communications in P25. In P25 mode, the SVR-**350™ Guardian** is backwards compatable with SVR-**P250™** and SVR-**P255™** products.

Optionally, the unit supports Pyramid's **P25 SmartTrunking** feature and works with mobile radios using the **EVRS** trunking protocol, to create a seamless trunking handshake between the mobile radio network and SVR-**350™** user. This ensures that portable radio users outside the vehicle get quick and accurate notifications of all transmissions to the P25 network. Users will get indications of **Channel Grant, Busy, Denial, Out of Range** just as if they were on a trunked channel of the digital network.

In addition, when in P25 operation, the SVR-**350™** offers optional **AES and DES encryption**, and enhanced P25 **emergency signaling** from portable to dispatch through the SVR-**350™**. This allows the SVR to relay an emergency with **Hot Mic** from the portable radio user.

The SVR-**350™** also utilizes Pyramid's latest **ESP™ and ESP2™** priority structures that resolve priority conflicts during repeater idle time rather than at the critical start of a conversation.

714-901-5462
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PYRAMID COMMUNICATIONS
Since 1990

MADE IN AMERICA

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Specifications SVR-350

TRANSMITTER

	VHF	UHF	764-870
Frequency Range	**136-174 MHz**	**380-470 MHz**	**764-776 MHz + 850-870 MHz**
RF Power Out	0.5 - 2W	0.5 - 2W	0.25 - 1W
Spurious Emissions	-70dBc	-70dBc	-70dBc
Frequency Stability -30°~+60°C	±1.5PPM	±1.5PPM	±1.5PPM
Modulation	10K0F1D, 10K0F1E, 10K0F7D,10K0F7E, 11K0F3E, 12K3F1D, 16K0F3E, 4K80F2D, 7K60F1D,8K10F1D, 8K10F1E, 8K10F7D, 8K10F7E, 8K40F2D	10K0F1D, 10K0F1E, 10K0F7D,10K0F7E, 11K0F3E, 12K3F1D, 16K0F3E, 4K80F2D, 7K60F1D,8K10F1D, 8K10F1E, 8K10F7D, 8K10F7E, 8K40F2D	10K0F1D, 10K0F1E, 10K0F7D,10K0F7E, 11K0F3E, 12K3F1D, 16K0F3E, 4K80F2D, 7K60F1D,8K10F1D, 8K10F1E, 8K10F7D, 8K10F7E, 8K40F2D
Hum and Noise			
25/30kHz	-43dB	-43dB	-40dB
12.5kHz	-38dB	-38dB	-33dB
Audio Response (300-3kHz)	Flat or -6dB/octave	Flat or -6dB/octave	Flat or -6dB/octave
Audio Distortion	<3% @ 1kHz 60% deviation	<3% @ 1kHz 60% deviation	<3% @ 1kHz 60% deviation
Local Mic Sensitivity	300mV - 5VPP	300mV - 5VPP	300mV - 5VPP
FCC Type Acceptance	LRUSVR-P250VA	LRUSVR-P250UA	LRUSVR-P250MB
Industry Canada Approval	2390A-SVRP250VA	2390A-SVRP250UA	2390A-SVRP250MB

RECEIVER

	VHF	UHF	764-870
Frequency Range	**136-174 MHz**	**380-470 MHz**	**764-776 MHz + 850-870 MHz**
Analog Sensitivity	0.28µV	0.28µV	0.28µV
Digital Sensitivity (5% BER)	0.20µV	0.20µV	0.20µV
Squelch Sensitivity	.2µV to 2µV adjustable	.2µV to 2µV adjustable	.2µV to 2µV adjustable
Selectivity			
25/30kHz channel	75dB	75dB	75dB
12.5kHz channel	65dB	65dB	65dB
Spurious/Image Rejection	75dB	75dB	75dB
IMD Response	75dB	75dB	75dB
Frequency Stability	±1.5PPM	±1.5PPM	±1.5PPM
Audio Response (300-3kHz)	Flat or +6dB/octave	Flat or +6dB/octave	Flat or +6dB/octave
Audio Output	0-5VPP AC coupled 600/2.2K	0-5VPP AC coupled 600/2.2K	0-5VPP AC coupled 600/2.2K
Local Rx Audio	400 mW 8 Ohms@ <5% distortion	400 mW 8 Ohms@ <5% distortion	400 mW 8 Ohms@ <5% distortion

Power Requirements

DC Supply	13.6VDC negative ground ± 25%
Standby	250mA
Receive	500mA @ 400mW Rx audio
Transmit	<3A @ rated output
Physical Dimensions	5.75"**W** x 10"**L** x 2.25"**H**
Weight	38 ounces
Case	One-piece extruded aluminium

Mil-Std-810H Ratings

501.5	Procedure II High Temp +60°C
502.5	Procedure II Low Temp -30°C
507.4	Procedure II Humidity
514.5	Procedure I Category 8 Vibration, Ground Vehicle
516.5	Procedure I Shock