

Application Note

AN #: 319A

DATE: 2-Nov-21

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PYRAMID MODEL #: SVR-P255 EVRS / SVR-P252 / SVR-350
RADIO MODEL: Kenwood Viking VM-5000/6000 Series Single Deck
ENGINEER: C. Carbajal

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Order the Pyramid TK-x180/5x20/NX Series interface cable Part# 7502-10-1245 for the SVR-P255

Connections:	SVR	Function	Radio	DB25 Connector
	Black/Shield	Ground	Pin 7	Ground
	White	Tx Audio Out	Pin 6	MI2
	Blue	Remote enable/disable	Pin 21	Aux I/O 4
	Green	PTT Out	Pin 4	Aux I/O 9
	Red	Switched B+	Pin 14	SB+
	Yellow	Rx Audio In	Pin 17	AFO
	Violet	COR	Pin 22	Aux I/O 3
	Black/Wht	Emergency	Pin 24	Emergency
	Grey	EVRS0	Pin 8	EVRS0
	Teal	EVRS2	Pin 12	EVRS2
	Pink	EVRS1	Pin 13	EVRS1

SVR	JP1	[-]	Remote Enable	SVR	Mobile COR Polarity:	High
Jumpers:	J1	[Out]	Tx audio level	Program:	Mobile Type:	EVRS
	J2	[Out]	Tx audio impedance		On-Air Polarity:	High
	J4	[In]	Local mic audio loop		Tx Audio Response:	Flat
	J5	[Out]	Local mic PTT loop		Rx Audio Response:	Flat
	J6	[Out]	Local Mic Sensitivity		Local Mic Repeat	No
	J7	[Out]	Rx Sensitivity		ESP	Yes
	J8	[+]	Pull up resistor			
	J9	[Out]	MCOR Pull up resistor			
	J11	[Out]	Tx audio level			

Additional Modifications (SVR-200 / SVR-250 / SVR-300): Connect Red/Black wires from factory cable to 12VDC. * KLF-2 or similar DC line filter is recommended on any installation to ensure clean power to mobile and SVR.

Additional Modifications (Radio):

In the Armada software, set the following:

1. In the **Global/Lists/Mic Audio Profile/External**, Set "normal" audio gains to **0db**
2. In the **Button/Menu, Button** screen set one of the soft keys for **Repeater Enable** to enable the repeater in Trunking or Conventional. .
3. In the **Global/Mobile Options** screen, set the following:
 - a. DB-25 Pin 4 = Input, Ext PTT, Low
 - b. DB-25 Pin 8 = Output, EVRS0, High
 - c. DB-25 Pin 12 = Output, EVRS2, High
 - d. DB-25 Pin 13 = Output, EVRS1, High
 - e. DB-25 Pin 21 = Output, Repeater Enable/Disable, Low
 - f. DB-25 Pin 22 = Output, Output Busy, High

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NOTE: When you are configuring a VM500/6000/7000 mobile radio with a SVR-P255, you will need to option the mobile for "Enhanced EVRS – Mobile" and for the portable that is being used for this you would need "Enhanced DVRS – Portable"

For mobile radio configuration you will need to program:

In the Armada Software / Global Tab / Mobile Options:

1. Set Enhanced EVRS = Checked
2. Ensure that "Toggle Acc Busy with Tones" = Unchecked
3. Program a "Repeater Enable" button. This will be used to enable/disable the SVR-P255.

For portable radio configuration you will need to program:

In the Armada Software / Channels Tab (conventional digital channel you created):

1. Create a P25 simplex channel for use with the SVR-P255
2. Set Transmit NAC = 293
3. Ensure that the Receive NAC = F7E (open)
5. Set Enhanced EVRS = Checked
6. Set OOR Channel = Checked

7. Set Busy Channel Lockout = Status

In the Armada Software / Systems Tab / General Options 2

1. Talk Permit Tone checked on the conventional system
2. OOR (Out of Range) must be configured for Tone and Display in the conventional system

In the Armada Software / Systems Tab / Lists / Emergency Section

1. Emergency Alarm must be set to "Disabled" for the conventional system. You do not want the portable to send an emergency alarm when on the conventional SVR-P255 simplex channel.