Application Note

AN #: 313
DATE:18-Jul-2017

PYRAMID MODEL #: SVR-P255 / SVR-P252 / SVR-350
RADIO MODEL: Kenwood / EFJ Viking VM600 & VM900
ENGINEER: C. Carbajal

APPROVAL INITIALS
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Order Pyramid Interface Cable Part # 7555-10-1245 when connecting to the SVR-P255, P252, 350

Connections:	***SVR***	***Function***	***Radio DB25 {UDDI-PVP Port}*** **{EFJ PN R597-5357-738}**
	Black/Shield	Ground	DB25 Pin 24
	White	Tx Audio Out	DB25 Pin 12
	Blue	Remote enable/disable	DB25 Pin 14
	Green	PTT Out	DB25 Pin 1
	Red	Switched B+	DB25 Pin 22
	Yellow	Rx Audio In	DB25 Pin 10
	Violet	COR	DB25 Pin 6
	Brown	Local Mic Audio	N/C
	Grey	On Air Detect	DB25 Pin 5
	Black/Wht	Emergency NC	DB25 Pin 4
	Teal	Output A	DB25 Pin 15
	Pink	Output B	DB25 Pin 16

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

Additional Modifications (SVR-P255, SVR-P252, SVR-350): Set the EMG Jumper = NC

Additional Modifications (Radio):

1. Program one of the soft keys to enable/disable the SVR by selecting "Radio Wide Options", "Assign Buttons", click
on the desired key and select "Remote Access".

*Note: Ensure that your Viking mobile radio and portable radio are EVRS enabled. Order **Kenwood-EFJ P/N 8326000023 for the portable radio and P/N 8326000024 for the mobile radio** to enable EVRS capabilities of the SVR's EVRS trunking mode.*

Note: If you are not using the factory 7555-10-1245 cable designed for the SVRs listed above, you will have to run a jumper from pin 24 to pin 21 of the DB-25 accy connector to enable the external microphone input (TX_MIC_IN) located at pin 12 of the Viking DB-25.

Application Note

PYRAMID MODEL #: SVR-P255
RADIO MODEL: Kenwood / EFJ Viking VM900
ENGINEER: C. Carbajal

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NOTE: When you are configuring a VM600/900 mobile radio with a SVR-P255, you will need to option the mobile for "Enhanced DVRS – 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 DVRS = Checked
2. Ensure that "Toggle Acc Busy with Tones" = Unchecked
3. Program a "Remote Access" 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 DVRS = 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 configured on the conventional system (for Tone and Display)

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.