Application Note

AN #: 303A
DATE: 24-Sep-18

PYRAMID MODEL #: SVR-200 / SVR-250 / SVR-300 / SVR-350
RADIO MODEL: Harris Unity XGM-100 w/ CH-100 Ctrl Head
ENGINEER: C. Carbajal

APPROVAL INITIALS
ENGINEER
DEPT. HEAD

Order Pyramid Interface cable Part # 7500-10-1047 when connecting to the SVR-200
Order Pyramid Interface cable Part # 7500-10-1247 when connecting to the SVR-250 or SVR-300

Connections:	***SVR***	***Function***	***Radio DB44 Accy Connector***	
	Black/Shield	Ground	Pin 8	
	White	Tx Audio Out	Pin 27	
	Blue	Remote enable/disable	Pin 10	* Future Support * * See Note *
	Green	PTT Out	Pin 18	
	Red	Switched B+	Pin 28	
	Yellow	Rx Audio In	Pin 17	
	Violet	COR	Pin 2	
	Brown	Local Mic Audio	N/C	
	Grey	On Air Detect	Pin 29	** Suppored in XG100 R06E06 or newer **

SVR Jumpers:	JP1	[-]	Remote Enable	**SVR Program:**	Mobile COR Polarity:	Low
	J1	[Out]	Tx audio level		Mobile Type:	Conv/Trunk
	J2	[Out]	Tx audio impedance		On-Air Polarity:	Low
	J4	[Out]	Local mic audio loop		Tx Audio Response:	De-emp
	J5	[Out]	Local mic PTT loop		Rx Audio Response:	Pre-Emp
	J6	[Out]	Local mic Sensitivity		Local Mic Repeat	No
	J7	[In]	Rx Sensitivity			
	J8	[+]	Pull up resistor			
	J9	[In]	MCOR pull up resistor			
	J11	[Out]	Tx Audio Level **			

Additional Modifications (SVR-200/250/300): ** On older SVR-200 units without J11, install J1 & J2 instead.

Additional Modifications (Radio):

1. Under ***External IO Options***, Program ***Output Control Line 1*** to ***External Mute***, active ***high***.
2. Program ***Aux Input* 1** for ***PTT***.

* The CH 100 control head does not currently support assigning a button or menu to turn the SVR on and off. To use an external source, cut the **Blue** remote enable loop located at the DB-44 of the factory cable and connect the **White Marked Blue** lead to your remote enable switch.

** If using the factory interface cable, on air detect is connected to pin 29 with an internal pull up to regulated 5 volts. Ensure the XGM-100 is updated to firmware R06E06 or newer to support the on-air detect output on Pin 29 of the mobile radio. You can set the Mobile Type in the SVR to Convention or Trunked depending on your application. See the SVR Service Manual for details on the Smart Trunking operation.