VST1 Transmitter Quick Start Guide

STEP 1 Connect Antenna to SMA Connector

STEP 2 Connect camera/video input source to SSMA connector

STEP 3 Connect audio/data inputs to MDM-9S connector (if applicable) *see reverse side

STEP 4 Set configuration *see reverse side

STEP 5 Connect power/communications inputs to the MDM-9P connector *see reverse side

Note When setting up your system, the transmit and receive antennas should be greater than 25 feet apart to prevent serious damage to or destruction of the receiver’s front end

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Wiring Your VST1 Transmitter

(Audio/Data Connections are Dependent on Configuration)

How to Set Your Transmitter Configuration

The VST1 Transmitter has three modes for configuring the unit: Local Mode, Preset Mode, and Remote Mode (see manual for details). Local Mode utilizes DIP switches for configuring equipped options and rotary switches for frequency selection as shown below:

Pre-set Mode, selected when the two 10-position (BCD, 0-9) switches are set to zero and the 16-position (binary, 0-F) is set to any position 1-F, allows local selection among 15 pre-sets configured with all options “ON” and set to their max settings with the frequencies set per the table below. Pre-sets may be changed as outlined in the ICD (Interface Control Document) via the communications port. Pre-sets are reprogrammable using Remote Mode, selected when all three rotary switches are set to zero. “Remote Only” VST1 transmitters have no rotary switches installed. See the product manual for more details.

Frequency Band

<table>
<thead>
<tr>
<th>Preset</th>
<th>U1</th>
<th>L1</th>
<th>L2</th>
<th>S1</th>
<th>S2</th>
<th>S3</th>
<th>C1</th>
<th>C2</th>
<th>C3</th>
<th>S.8</th>
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<tbody>
<tr>
<td>1</td>
<td>340 MHz</td>
<td>1435 MHz</td>
<td>1700 MHz</td>
<td>2200 MHz</td>
<td>2400 MHz</td>
<td>2200 MHz</td>
<td>4400 MHz</td>
<td>4900 MHz</td>
<td>4400 MHz</td>
<td>5725 MHz</td>
</tr>
<tr>
<td>2</td>
<td>344 MHz</td>
<td>1442 MHz</td>
<td>1711 MHz</td>
<td>2214 MHz</td>
<td>2407 MHz</td>
<td>2214 MHz</td>
<td>4436 MHz</td>
<td>4907 MHz</td>
<td>4400 MHz</td>
<td>5736 MHz</td>
</tr>
<tr>
<td>3</td>
<td>349 MHz</td>
<td>1449 MHz</td>
<td>1721 MHz</td>
<td>2228 MHz</td>
<td>2414 MHz</td>
<td>2243 MHz</td>
<td>4471 MHz</td>
<td>4914 MHz</td>
<td>4486 MHz</td>
<td>5746 MHz</td>
</tr>
<tr>
<td>4</td>
<td>353 MHz</td>
<td>1456 MHz</td>
<td>1732 MHz</td>
<td>2243 MHz</td>
<td>2421 MHz</td>
<td>2273 MHz</td>
<td>4507 MHz</td>
<td>4921 MHz</td>
<td>4538 MHz</td>
<td>5757 MHz</td>
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<tr>
<td>5</td>
<td>357 MHz</td>
<td>1464 MHz</td>
<td>1743 MHz</td>
<td>2257 MHz</td>
<td>2428 MHz</td>
<td>2285 MHz</td>
<td>4543 MHz</td>
<td>4928 MHz</td>
<td>4571 MHz</td>
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<tr>
<td>6</td>
<td>361 MHz</td>
<td>1471 MHz</td>
<td>1754 MHz</td>
<td>2271 MHz</td>
<td>2435 MHz</td>
<td>2307 MHz</td>
<td>4579 MHz</td>
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<td>4614 MHz</td>
<td>5779 MHz</td>
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<tr>
<td>7</td>
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<td>1478 MHz</td>
<td>1764 MHz</td>
<td>2285 MHz</td>
<td>2442 MHz</td>
<td>2328 MHz</td>
<td>4614 MHz</td>
<td>4942 MHz</td>
<td>4657 MHz</td>
<td>5789 MHz</td>
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<td>1775 MHz</td>
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<td>4650 MHz</td>
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<tr>
<td>9</td>
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<td>4668 MHz</td>
<td>4957 MHz</td>
<td>4742 MHz</td>
<td>5811 MHz</td>
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<tr>
<td>A</td>
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<td>1796 MHz</td>
<td>2328 MHz</td>
<td>2464 MHz</td>
<td>2392 MHz</td>
<td>4721 MHz</td>
<td>4964 MHz</td>
<td>4785 MHz</td>
<td>5821 MHz</td>
</tr>
<tr>
<td>B</td>
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<td>1506 MHz</td>
<td>1807 MHz</td>
<td>2342 MHz</td>
<td>2471 MHz</td>
<td>2414 MHz</td>
<td>4757 MHz</td>
<td>4971 MHz</td>
<td>4828 MHz</td>
<td>5832 MHz</td>
</tr>
<tr>
<td>C</td>
<td>387 MHz</td>
<td>1514 MHz</td>
<td>1818 MHz</td>
<td>2356 MHz</td>
<td>2478 MHz</td>
<td>2435 MHz</td>
<td>4793 MHz</td>
<td>4978 MHz</td>
<td>4871 MHz</td>
<td>5843 MHz</td>
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<tr>
<td>D</td>
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<td>1829 MHz</td>
<td>2371 MHz</td>
<td>2485 MHz</td>
<td>2456 MHz</td>
<td>4829 MHz</td>
<td>4985 MHz</td>
<td>4913 MHz</td>
<td>5854 MHz</td>
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<tr>
<td>E</td>
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<td>1839 MHz</td>
<td>2385 MHz</td>
<td>2492 MHz</td>
<td>2478 MHz</td>
<td>4864 MHz</td>
<td>4992 MHz</td>
<td>4956 MHz</td>
<td>5864 MHz</td>
</tr>
<tr>
<td>F</td>
<td>399 MHz</td>
<td>1535 MHz</td>
<td>1850 MHz</td>
<td>2399 MHz</td>
<td>2499 MHz</td>
<td>2499 MHz</td>
<td>4900 MHz</td>
<td>4999 MHz</td>
<td>4999 MHz</td>
<td>5875 MHz</td>
</tr>
</tbody>
</table>

Diagram A - For 1 MHz Step - L-Band, S-Band, and C-Band

Diagram B - For 100 KHz Step - UHF

MDM-9P Power & Programming
- 1: +11 to 16 VDC Input
- 2: Ground
- 3: Ground
- 4: Ground
- 5: 12 VDC Out
- 6: NC/TX Comm-
- 7: TX Comm+
- 8: RX Comm+
- 9: NC/RX Comm-

MDM-9S Audio/Data Input
- 1: Sub1 Mic/TTL
- 2: Sub1 Line/RS232
- 3: Ground
- 4: Sub2 Mic/TTL
- 5: Sub2 Line/RS232
- 6: Ground
- 7: NC
- 8: NC
- 9: Ground

NC = No Connection

Sub2 Line/RS232
Sub1 Line/RS232
Sub2 Mic/TTL
Sub1 Mic/TTL
NC
TX Comm+
RX Comm+
NC/RX Comm-
NC/TX Comm-
12 VDC Out
Ground
Ground
Ground
+11 to 16 VDC Input

AQS-VST1-E