**VDR1 Receiver** Quick Start Guide

**STEP 1** Connect antennas to SMA connectors

**STEP 2** Connect video monitor/recorder to BNC connector

**STEP 3** Set configuration *see reverse side

**STEP 4** Connect audio/data outputs to 3.5mm stereo jack and/or the MDM-9S connector (if applicable)

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

**STEP 6** Check RSSI meters to confirm a signal is being received

*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 VDR1 Receiver
(Audio/Data Connections are Dependent on Configuration)

How to Set Your Receiver Configuration

The VDR1 receiver 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-set configurations. The VDR1 receiver ships from the factory with the 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 LCD (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” VDR1 receivers 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>5.8</th>
</tr>
</thead>
<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>
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<td>5725 MHz</td>
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<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>2221 MHz</td>
<td>4436 MHz</td>
<td>4907 MHz</td>
<td>4443 MHz</td>
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<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>
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<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>2264 MHz</td>
<td>4507 MHz</td>
<td>4921 MHz</td>
<td>4528 MHz</td>
<td>5757 MHz</td>
</tr>
<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>
<td>5766 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>
<td>4935 MHz</td>
<td>4614 MHz</td>
<td>5779 MHz</td>
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<tr>
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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>
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<td>4657 MHz</td>
<td>5789 MHz</td>
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<tr>
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<td>5811 MHz</td>
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<tr>
<td>A</td>
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<td>1796 MHz</td>
<td>2328 MHz</td>
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<td>2392 MHz</td>
<td>4711 MHz</td>
<td>4964 MHz</td>
<td>4785 MHz</td>
<td>5821 MHz</td>
</tr>
<tr>
<td>B</td>
<td>383 MHz</td>
<td>1506 MHz</td>
<td>1807 MHz</td>
<td>2342 MHz</td>
<td>2471 MHz</td>
<td>2414 MHz</td>
<td>4747 MHz</td>
<td>4971 MHz</td>
<td>4828 MHz</td>
<td>5837 MHz</td>
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<tr>
<td>C</td>
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<td>1818 MHz</td>
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<td>2435 MHz</td>
<td>4793 MHz</td>
<td>4978 MHz</td>
<td>4871 MHz</td>
<td>5843 MHz</td>
</tr>
<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>
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<tr>
<td>F</td>
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<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

3.5mm Stereo Jack
Audio/Data Out
Ground
SMA Female
RF In
Audio (R/L)
SMA Female
RF In 1 (Connect to Antenna)
BNC Female
Video Output (Connect to Monitor)
MDM-9P
Power & Programming
1: +11 to 16 VDC Input
2: Ground
3: Ground
4: Ground
5: 12VDC Out
6: NC/TX Comm-
7: TX Comm+
8: RX Comm+
9: NC/RX Comm-

MDM-9S
Audio/Data Output
1: Sub1 -10dBV/TTL
2: Sub1 +4dBu/RS232
3: Ground
4: Sub2 -10dBV/TTL
5: Sub2 +4dBu/RS232
6: Ground
7: NC
8: NC
9: Ground

NC = No Connection

PRE-SET & PROGRAMMING

AQS-VDR1-F