## IMPORTANT!

The satellite TV market is expanding and changing. The information in this manual was accurate at the time of printing. If your VuQube does not operate as outlined in this manual please call King Controls at (952) 922-6889 or visit our website at www.kingcontrols.com.

Please read this entire manual before using your VuQube.

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## TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
<th>Contents</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>OVERVIEW AND CONNECTIONS</td>
<td>2-3</td>
</tr>
<tr>
<td>2.</td>
<td>OPERATION</td>
<td>4-5</td>
</tr>
<tr>
<td>3.</td>
<td>AUTOMATIC SATELLITE SWITCHING FOR DISH AND BELL TV</td>
<td>6-11</td>
</tr>
<tr>
<td>4.</td>
<td>ELEVATION MAPS</td>
<td>12-15</td>
</tr>
<tr>
<td>5.</td>
<td>TROUBLESHOOTING</td>
<td>16</td>
</tr>
<tr>
<td>6.</td>
<td>SECURITY FEATURE</td>
<td>17</td>
</tr>
<tr>
<td>7.</td>
<td>ACCESSORIES</td>
<td>17</td>
</tr>
<tr>
<td>8.</td>
<td>MAINTENANCE</td>
<td>18</td>
</tr>
<tr>
<td>9.</td>
<td>FCC USER INFORMATION</td>
<td>19</td>
</tr>
<tr>
<td>10.</td>
<td>LIMITED WARRANTY</td>
<td>20</td>
</tr>
</tbody>
</table>
Congratulations on your purchase of the ultra-portable VuQube Satellite TV Antenna.

The VQ1000 is equipped with a wireless remote control to allow quick and easy one person positioning of the antenna while monitoring your receiver’s signal meter screen on your TV.

The VQ1000 comes with the following items:

A. Antenna Unit
B. Remote Control (Fig. 1)
C. 50’ Coax Cable

You will also need:

D. Items sold separately:
   • TV
   • Receiver
   • Satellite TV Subscription Service

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**FIG. 1**

**REMOTE CONTROL**

- **POWER (on/off)**
- **LEFT/RIGHT Arrows**
  - Use to rotate antenna (AZIMUTH)
- **UP/DOWN Arrows**
  - Use to raise and lower antenna (ELEVATION)
- **STORE / RECALL 1-4**
  - Use to store and recall satellite positions
- **MODE**
  - Use to select manual and automatic switching options

- **Battery Level**
- **Reverse Direction**
- **Indicates antenna has reached rotational limit**
- **Current Antenna Elevation**
- **Indicates unit is in automatic switching mode**
- **Indicates antenna is switching from one stored location to another**
- **Indicates direction antenna is pointing**

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1. Place the VuQube on a stable surface with a clear view of the southern sky. (With its built-in leveling feature, the VuQube does not need to be level, but make sure it is stable to prevent movement during operation.) Point the handle to the north (this will speed up search time).

2. Connect coax cable from the VuQube to the SATELLITE IN port on your receiver.

3. Go to OPERATION on page 4.

**NOTE:** Hand tighten coax connections. **DO NOT USE A WRENCH.**
Make sure to connect coax to SATELLITE IN on your receiver.

Do not allow the coax cable to become bent or kinked.
Do not leave the coax cable where it can be tripped on or run over by a vehicle.
SATELLITE ACQUISITION

1. Determine the look angle for your desired satellite at your present location from the appropriate map in Section 4 ELEVATION MAPS, or by entering the local zip code into your receiver’s setup menu (see your receiver’s owner’s manual).

2. Follow the instructions in your receiver’s owner’s manual and navigate to the signal meter screen. Select the appropriate transponder:

<table>
<thead>
<tr>
<th>Transponder</th>
<th>Frequency 1</th>
<th>Frequency 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>DIRECTV®</td>
<td>101 = 19</td>
<td>119 = 22</td>
</tr>
<tr>
<td>DISH®</td>
<td>61.5 = 14</td>
<td>110 &amp; 119 = 11</td>
</tr>
<tr>
<td>Bell TV</td>
<td>82 &amp; 91 = 11</td>
<td></td>
</tr>
</tbody>
</table>

3. Press and hold POWER on VuQube remote until it turns ON. The remote will display the current antenna elevation angle.

4. Use the UP and DOWN arrows to change the antenna elevation angle as shown on the remote control to the proper elevation determined in step 1.

IMPORTANT! STEP 5. You must watch your TV for signal strength while rotating the antenna in step 5. See your receiver’s owner’s manual to determine how to display the signal meter screen on your TV.

When pressing the left and right arrows, the remote will continuously beep with a short pause in between: (beep - beep - beep...)

If the unit reaches its rotational limit in either direction, the remote will display REVERSE DIRECTION and beep rapidly: (beep beep beep...) Press other rotational arrow to reverse direction.

5. With the satellite signal meter screen displayed on your TV, use the LEFT and RIGHT arrows to rotate the antenna and watch for signal to appear on the meter.
6. When signal strength appears, stop rotating the antenna. Use the UP, DOWN, LEFT and RIGHT arrows as necessary to maximize the satellite signal.

   For DISH and Bell TV, verify the signal meter screen shows the correct satellite.

7. Press POWER again to turn the VuQube remote OFF. (The remote turns off automatically after 90 seconds if no buttons are pressed.)

8. Exit the Signal Meter Screen to download the guide and view your programming.

NOTE: It may take several minutes to download programming from the satellite before you can watch TV.

If you move the VuQube you must re-acquire the satellite. Follow the directions on pages 4-5.

STORE / RECALL (Manual Satellite Switching)

You can STORE up to 4 satellite positions using the STORE/RECALL feature.

1. Lock onto a satellite using steps 1-6 on pages 4-5.

2. Press and hold the 1 button for 3 or more seconds. The number “1” will illuminate and the display will show P1. (When button is released, display will show the elevation.)

3. Repeat for up to 3 more satellites using the 2, 3 and 4 buttons.

4. To RECALL a stored position, momentarily press the desired button (1, 2, 3 or 4) (do not press for more than 2 seconds). The recalled location and “Switching” will be displayed as the antenna moves to the recalled position.

NOTE: When recalling a stored position, if you hold the button for more than 2 seconds, the current position will be stored rather than a previous position being recalled.

To cancel moving to a stored position, press any of the arrow buttons.

If you move the VuQube you will have to re-acquire the satellites and store the positions again. Follow the instructions on pages 4-5.
Section 3  AUTOMATIC SATELLITE SWITCHING FOR DISH AND BELL TV

The satellite TV channels you watch may be broadcast from more than one satellite. When selecting a channel that is broadcast from a different satellite, the VuQube antenna must switch to the new satellite in order for you to view that channel.

The VuQube can be configured to automatically switch between satellites. To do this you must store all applicable satellites into memory in the correct order and then activate the automatic satellite switching feature. Doing this allows the VuQube to automatically change satellites as necessary when you simply select a new channel with your receiver’s remote control.

To enable the automatic satellite switching feature you must follow this 3 step configuration process:

**Step A: CHECK SWITCH TEST.** Run a check switch test (before satellite acquisition) to clear the memory of your receiver (page 7). This is a one time procedure.

**Step B: SATELLITE ACQUISITION.** Lock on and store each satellite’s location into the VuQube’s memory (page 8).

**Step C: SWITCHING MODE AND FINAL CHECK SWITCH TEST.** Put the VuQube in the proper switching mode and run a check switch test to configure your receiver for automatic switching (pages 9-11).

**NOTE:** After running the check switch test in step C you will not have to run it again (see page 9 for exceptions).

GO TO PAGE 7 AND BEGIN WITH STEP A.
STEP A: CHECK SWITCH TEST (Before satellite acquisition)

1. Disconnect the coax from “SAT IN” on the back of your receiver.

2. Turn on your TV and receiver.

3. On your receiver’s remote, press (MENU, 6, 1, 1) to display the signal meter screen.

4. Highlight “Check Switch” and press SELECT.

   Note: Some receivers may prompt you to select “Check Switch” a second time to initiate the test.

5. Make sure “Superdish” and “Alternate” boxes are NOT selected.

   Note: Not all receivers will display a screen with options that include “Superdish” and “Alternate” boxes.

6. Highlight “Test” and press SELECT.

   Your receiver will perform a check switch test. (This process will take several minutes.)

7. When test is complete, a screen similar to this should appear.

   (Receivers are always changing, and therefore screen graphics may vary.)

   “NO SWITCH DETECTED” or “INSTALLED DEVICE UNKNOWN” or similar

   If you get a WARNING screen stating you have fewer satellites than previously detected, with the option to save the settings, select “SAVE” and continue. (You may have to choose “SAVE” twice.)

8. Highlight “OK” and press SELECT to return to the Point Dish Screen.

9. Reconnect the coax to “SAT IN” on the back of your receiver.

10. GO TO PAGE 8, STEP B.
STEP B: SATELLITE ACQUISITION

Determine which satellites you wish to switch between, and for each satellite listed, follow steps B-1, B-2 and B-3.

WHEN COMPLETE, GO TO PAGE 9, STEP C.

Example for DISH SD:

- Choose the 110 satellite on your receiver screen (Step B-1), lock onto it (Step B-2), and then store it in position 1 (Step B-3).
- Choose the 119 satellite on your receiver screen (Step B-1), lock onto it (Step B-2), and then store it in position 2 (Step B-3).

<table>
<thead>
<tr>
<th>Step B-1</th>
<th>Step B-2</th>
<th>Step B-3</th>
</tr>
</thead>
<tbody>
<tr>
<td>On Point Dish Screen of your receiver, choose satellite:</td>
<td>Use steps 1-6 on pages 4-5 and lock onto satellite:</td>
<td>Use steps 1-2 on page 5 and store location in position:</td>
</tr>
<tr>
<td>DISH SD</td>
<td>110</td>
<td>110</td>
</tr>
<tr>
<td></td>
<td>119</td>
<td>119</td>
</tr>
<tr>
<td>DISH SD and HD</td>
<td>110</td>
<td>110</td>
</tr>
<tr>
<td></td>
<td>119</td>
<td>119</td>
</tr>
<tr>
<td></td>
<td>129</td>
<td>129</td>
</tr>
<tr>
<td>DISH SD and HD Alternate</td>
<td>61.5</td>
<td>61.5</td>
</tr>
<tr>
<td></td>
<td>110</td>
<td>110</td>
</tr>
<tr>
<td></td>
<td>119</td>
<td>119</td>
</tr>
<tr>
<td>Bell SD and HD</td>
<td>82</td>
<td>82</td>
</tr>
<tr>
<td></td>
<td>91</td>
<td>91</td>
</tr>
</tbody>
</table>
STEP C: CHECK SWITCH TEST

IMPORTANT! BEFORE RUNNING THE CHECK SWITCH TEST, YOU MUST FIRST LOCK ON AND STORE THE DESIRED SATELLITE LOCATIONS TO MEMORY IN THE CORRECT ORDER AS SHOWN IN STEP B, AND THEN PROGRAM THE VUQUBE FOR THE PROPER SWITCHING MODE AS SHOWN BELOW.

NOTE: For automatic satellite switching, King Controls recommends using a DISH model 311 receiver for DISH SD, and a DISH model ViP211z, ViP211k, ViP211 or 411 receiver for DISH SD and HD. Do not use dual tuner receivers or receivers with built-in recorders.

If you do not have a clear view of the satellites, the switch will not load correctly.

The SW21 and SW64 switches are a software configuration (not a physical switch) that is loaded into your receiver after running a check switch test with the antenna locked on and configured for the appropriate service.

This one time test will not need to be repeated after successful installation, unless
a) check switch test is run again while connected to a home dish system,
b) check switch test is run when your receiver is not connected,
c) you travel outside the coverage area of your chosen satellite trio and switch trios (DISH SD and HD and DISH SD and HD Alternate),
d) you are parked in an area where the selected satellites are blocked, but are able to select alternate satellites and get signal.

Before running the check switch test, you must put the VuQube in the proper mode.

**Mode 01:** Normal operating mode (use without automatic satellite switching)
**Mode A2:** Automatic dual satellite switching
**Mode A3:** Automatic tri-satellite switching

SET SWITCHING MODE

1. Press the MODE button.

2. Scroll through the three options with the UP and DOWN arrows. The large “X” shape on the right of the display will light up to indicate which mode is active.

3. Select **01** for: Normal operating mode (use without automatic satellite switching)

Select **A2** for: DISH SD
Bell SD and HD

Select **A3** for: DISH SD and HD
DISH SD and HD Alternate
4. Press and hold the **MODE** button until the segments on the display all start turning black.

When all of the segments turn black, “AUTO” will appear, and the display will return to its normal condition, displaying the current elevation of the antenna and the direction it is pointing.

**RUN CHECK SWITCH TEST**

5. Run the check switch test again following steps 3-6 in STEP A on page 7.

Your receiver will perform a check switch test. (This process will take several minutes.) When test is complete, a screen similar to one on page 11 should appear.

**Receivers are always changing, and therefore screen graphics may vary.**

If indicated results as shown on page 11 are not obtained, run test again. Contact King Controls if the check switch fails to load after 4 attempts.

6. Save the settings, exit to the main menu screen and wait for programming to download.

7. **DISH SD and HD** and **DISH SD and HD Alternate** only: Verify your saved settings show your desired satellite trio 110, 119, 129, or 61.5, 110, 119.

8. Automatic satellite switching is now active. The antenna will switch to the appropriate satellite based on the channel you select using your receiver’s remote control. Enjoy!

**NOTE:** The new check switch setting (SW21 or SW64) will remain active in your receiver until you re-run the check switch test when connected to your home dish. When moving your receiver between the VuQube and your home dish, you must always reconfigure your receiver by running a new check switch test.

If you move the VuQube, perform these two steps:

• Re-acquire the satellites using Normal Operating Mode. Follow steps 1-4 on pages 9-10 to put the unit in Normal Operating Mode. Make sure the “x” lights up when Mode 01 is displayed.

• Re-acquire the satellites (page 8) and re-enter the appropriate switching mode (page 9). You will not have to rerun the check switch test when re-entering automatic mode after re-acquiring the satellites (see page 9 for exceptions).

You must also perform these two steps if you wish to automatically switch between a new set of satellites.
Section 4  ELEVATION MAPS

61.5

Elevation Map for DISH. 61.5 Satellite

82

Elevation Map for Bell TV 82 Satellite
Elevation Map for Bell TV 91 Satellite

Elevation Map for DIRECTV® 101 Satellite
NOTE: If you cannot lock onto the correct satellite, it is most likely that an object is blocking the signal. If this is the case, move the VuQube to have an unobstructed view of the southern sky.

<table>
<thead>
<tr>
<th>ERROR CODES</th>
<th>POSSIBLE REASON</th>
<th>COURSE OF ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>EO</td>
<td>Remote is unable to send commands to antenna.</td>
<td>Turn remote OFF, wait 5 seconds, and turn back ON.</td>
</tr>
<tr>
<td></td>
<td>Batteries low in remote control.</td>
<td>Make sure receiver is turned ON.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Make sure coax from antenna is connected to receiver.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Move remote closer to antenna.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Change batteries in remote control.</td>
</tr>
<tr>
<td>E1</td>
<td>Remote is unable to receive response from antenna.</td>
<td>Move remote closer to antenna.</td>
</tr>
<tr>
<td>E2</td>
<td>Miscommunication between remote and antenna.</td>
<td>Call King Controls.</td>
</tr>
</tbody>
</table>
The VuQube can be secured to an object using a padlock and cable (not included) to deter theft.

Visit your local dealer or call King Controls to order.

**MB300 - Window Bracket Kit**

Allows the VQ1000 to be temporarily hung on vertical surfaces such as the window of your vehicle

(sold separately)

**MB350 - Cab Mounting Plate**

Attach to cab or other vertical surface to add temporary mounting location for VQ1000 using MB300 mount

(sold separately)
The VuQube Satellite System is designed to be maintenance and trouble free.

For optimum signal strength, keep the enclosure clean from dirt, bugs, and other debris. Periodic washing of the enclosure with mild soap and water is recommended.

**IMPORTANT! Do not power wash the VuQube.**

If you plan on not using your VuQube for long periods of time, it is recommended that the system be put through a search procedure on a quarterly basis to keep all moving parts in good working order.

If you have any comments or questions, please contact the King Controls Service Department at (952) 922-6889, or email King Controls at info@kingcontrols.com.

**Rain Fade**

Rain or dew on the enclosure can cause signal interference and make the digital picture freeze, pixel or go out altogether. This loss of signal is commonly referred to as “rain fade” and is caused by the combination of water in the atmosphere and water on the enclosure surface.

To minimize this issue and eliminate the effects of water on the enclosure, apply King Controls Dome Magic® rain fade solution to the enclosure. This will prevent water from sticking to the enclosure surface and blocking the signal. For additional details on Dome Magic® rain fade solution please contact your authorized VuQube dealer or call King Controls at (952) 922-6889.

**NOTE:** Dome Magic® will discolor VuQubes painted a dark color.

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**Single Application Packet #1830-SP**

**Spray Can #1830**

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Main Components

<table>
<thead>
<tr>
<th>VuQube Antenna</th>
<th>VuQube Remote</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model #: VQ1</td>
<td>Model #: VQ1R</td>
</tr>
<tr>
<td>FCC ID: UUM433A</td>
<td>FCC ID: UUM433RA</td>
</tr>
<tr>
<td>IC: 6873A-443A</td>
<td>IC: 6873A-443RA</td>
</tr>
</tbody>
</table>

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1) This device must not cause harmful interference, and
2) This device must accept interference received including interference that may cause undesired operation.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1) This device must not cause harmful interference, and
2) This device must accept interference received including interference that may cause undesired operation.

IMPORTANT! This device must not be co-located with other transmitters to ensure compliance with FCC RF exposure requirements.

Please note that changes or modifications to the VuQube or VuQube Remote not expressly approved by King Controls could void the purchaser’s or user’s authority to operate this equipment.

The VuQube and VuQube Remote have been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that the interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.
Every new VuQube Satellite System is thoroughly inspected and tested before leaving the factory, and is covered by the following one year parts limited warranty from the date of original purchase:

- One year parts warranty: The customer is not responsible for the cost of replacement parts if the original part is determined to be defective under the terms of the warranty. The customer is responsible for the cost of replacement parts after one year.

Should any trouble develop during the warranty period, contact King Controls. You must contact King Controls before the warranty period expires. The customer must supply proof of purchase (such as a dated sales receipt) when requesting warranty service. If customer cannot supply proof of purchase, warranty period shall start 30 days after date of manufacture.

Only King Controls will perform warranty evaluations and repairs.

If it is determined that the unit needs to be returned to King Controls, customer must return COMPLETE product, freight prepaid, to: King Controls, 11200 Hampshire Avenue South, Bloomington, MN 55438-2453. If inspection shows the trouble is caused by defective workmanship or material, King Controls will repair (or at its option, replace) without charge.

When returning product, King Controls will supply an RMA number (Return Merchandise Authorization). This number must be clearly written on the box. Failure to clearly write RMA number on box may result in delays in processing claim. Along with product, customer should include in the box: his/her name, address, daytime phone number, proof of purchase and description of the problem.

This warranty does not cover installation and external wiring, or remanufactured units. This warranty does not cover damage caused by the use of a mounting bracket other than a King Controls mounting bracket designed for the product. This warranty is not transferrable from the original owner.

Due to the expanding and changing TV market, King Controls cannot be held responsible for changes made to satellite services. Software updates to address such issues are not covered under warranty.

This warranty also does not apply where:

- The product has been abused, misused, improperly installed or improperly maintained.
- The product has been installed without the use of a King Controls mounting bracket designed for the product.
- Repairs have been made or attempted by others that are not certified by King Controls to do such repairs.
- Repairs are required because of normal wear and tear.
- Alterations have been made to the product.
- The antenna unit has been opened without authorization.
- Damage has been caused by power washing.
- Supplied grease not used in the external coax connections as specified in the instructions (non-portable units).
- Circumstances beyond the control of King Controls cause the product to no longer operate correctly.
- Customer is not the original owner.

In no event shall King Controls be liable for any indirect, incidental, or consequential damages from the sale or use of the product. This disclaimer applies both during and after the term of the warranty.

King Controls disclaims liability for any implied warranties, including implied warranties of “merchantability” and “fitness for a specific purpose,” after the one year term of this warranty.

This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.