Installation Check List

(Read Before the Installation)



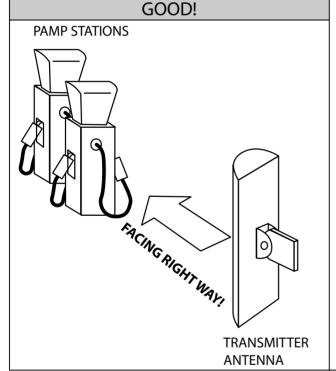
What you should NOT do for MVDS installation

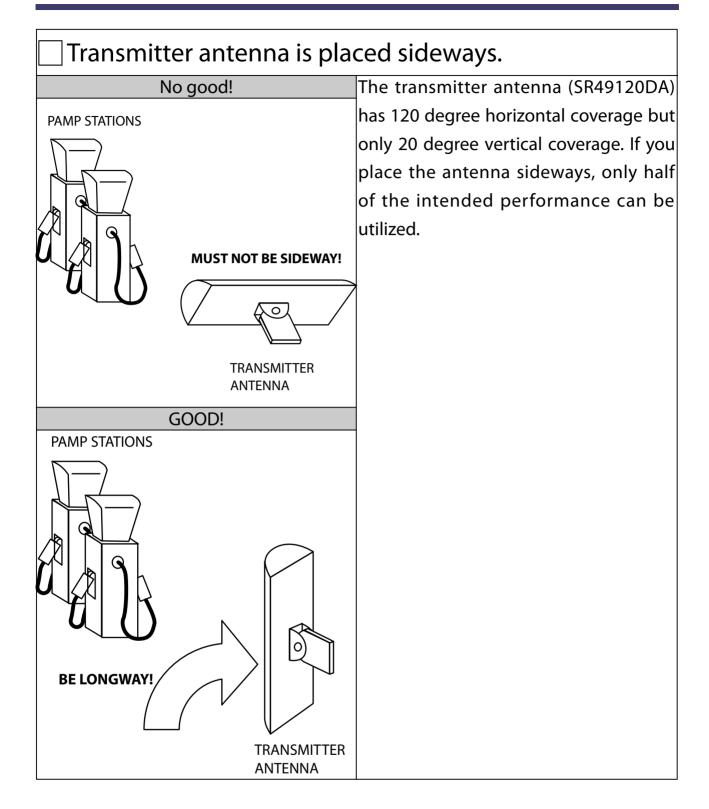
This document describes the notes for the MVDS X-1 and BR-1 installation. Read information below carefully and check the location or direction of MVDS accordingly.

Transmitter antenna faces wrong direction.

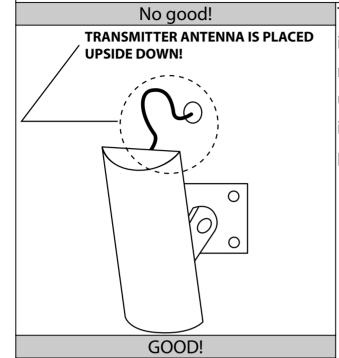
No good! PAMP STATIONS FACING WAY! WRONG WAY! TRANSMITTER ANTENNA

The transmitter antenna (SR49120DA) is a directional type. You must install it so that the front surface is facing toward the pump stations (i.e., receivers). If you have multiple pump stations with receives, try to face to midpoint of the pump group. The transmitter antenna has about 120 degree fan-shaped horizontally coverage, so is should be able to cover in most cases.

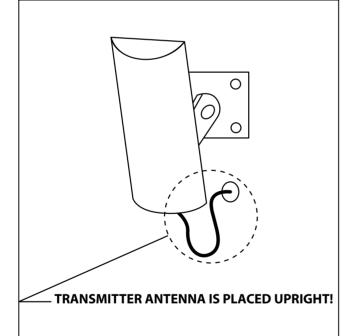




Transmitter antenna is placed upside down.



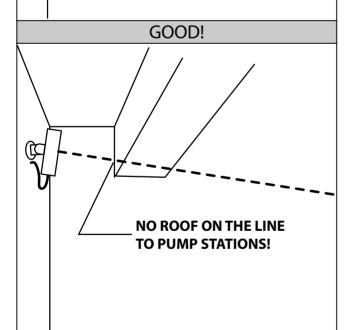
The transmitter antenna (SR49120DA) is not vertically symmetric. It is recommended to mount antenna upright (with cable pigtail underneath) in order to fully utilize antenna performance.

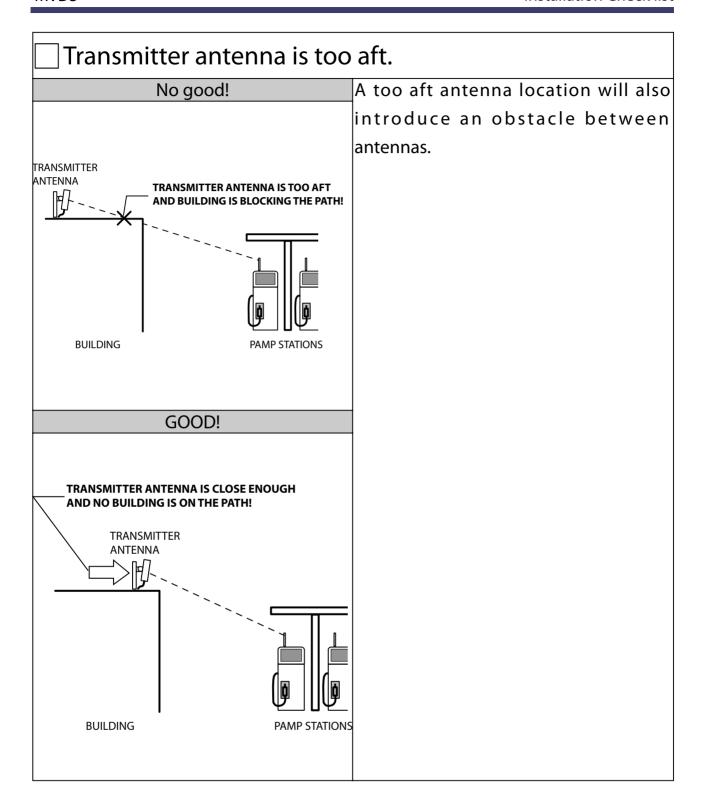


Transmitter antenna is behind the roof.

ROOF IS HIDING THE ANTENNA ON THE LINE TO PUMP STATIONS!

Any obstacle between the transmitter and receiver antennas will degrade the performance. This is especially true if the obstacle is a metal or thick concrete object, such as a roof. Be careful to choose the antenna mounting location to avoid obstacles between the antennas.

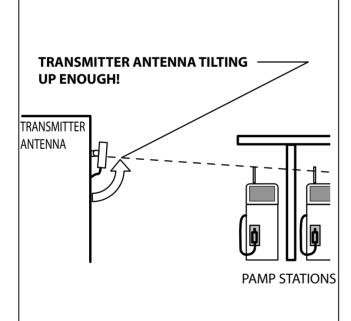




Transmitter Antenna is tilted at wrong angle.

TRANSMITTER ANTENNA TILTTING TOO DEEP! TRANSMITTER ANTENNA PAMP STATIONS

Because the transmitter antenna (SR49120DA) vertical coverage is about 20 degrees, the tilting angle must be adjusted carefully. Do not tilt down the transmitter antenna too much. The necessary angle is usually less than 10 degrees - often it is better to leave antenna straight up, rather than tilt it down by eye measurement.

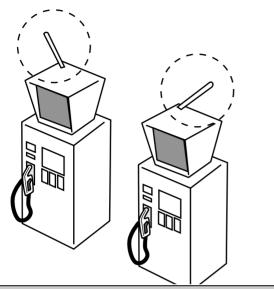


GOOD!

Receiver antenna is not upright.

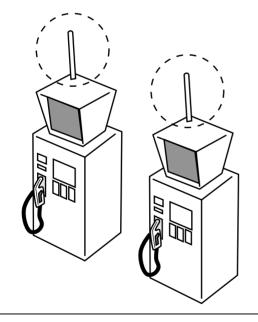
No good!

RECEIVER ANTENNA IS NOT UPRIGHT!



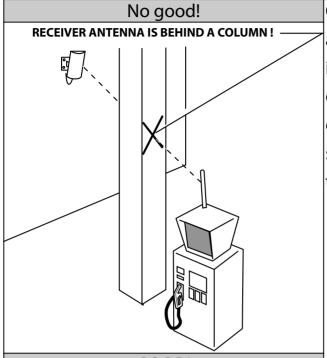
GOOD!

RECEIVER ANTENNA IS UPRIGHT!

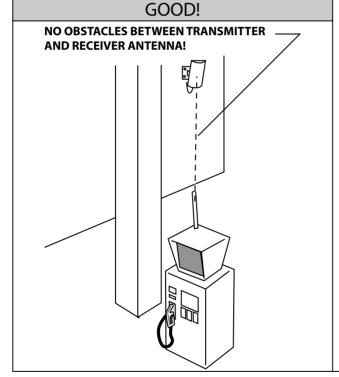


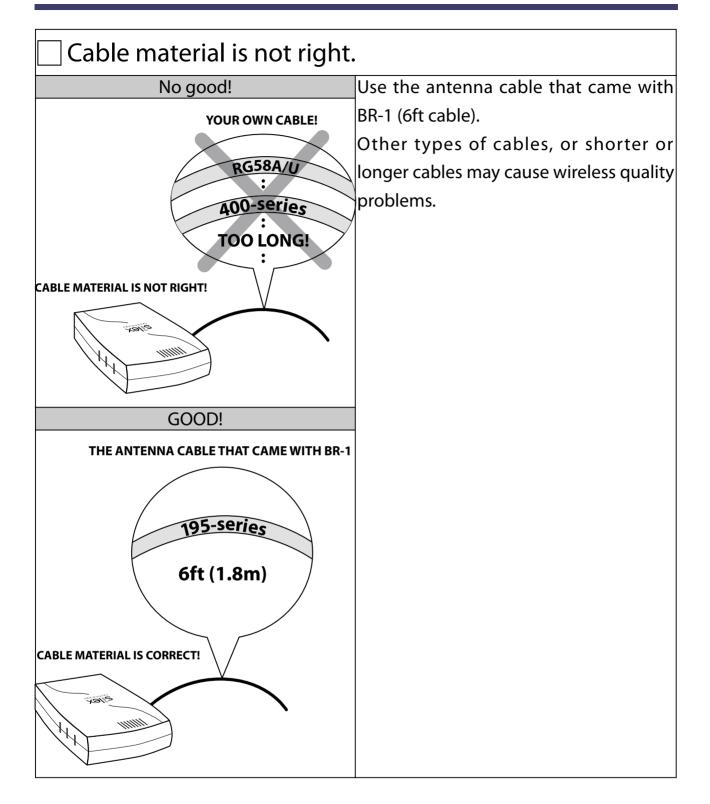
The receiver antenna should be placed upright. Because the receiver antenna (HG5808U) vertical coverage is about 30 degrees, tilting it will significantly reduce its performance.

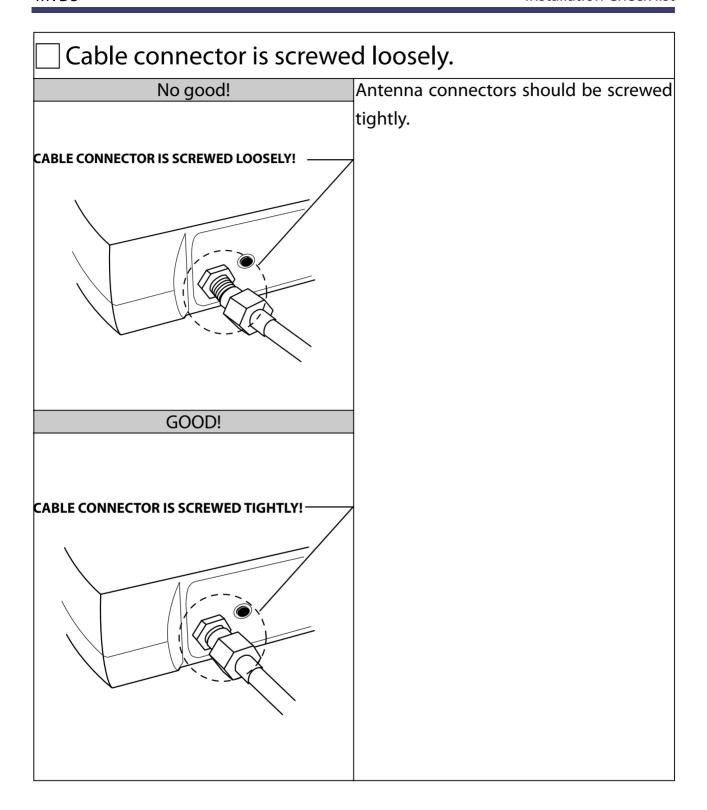
Receiver antenna is behind a column.

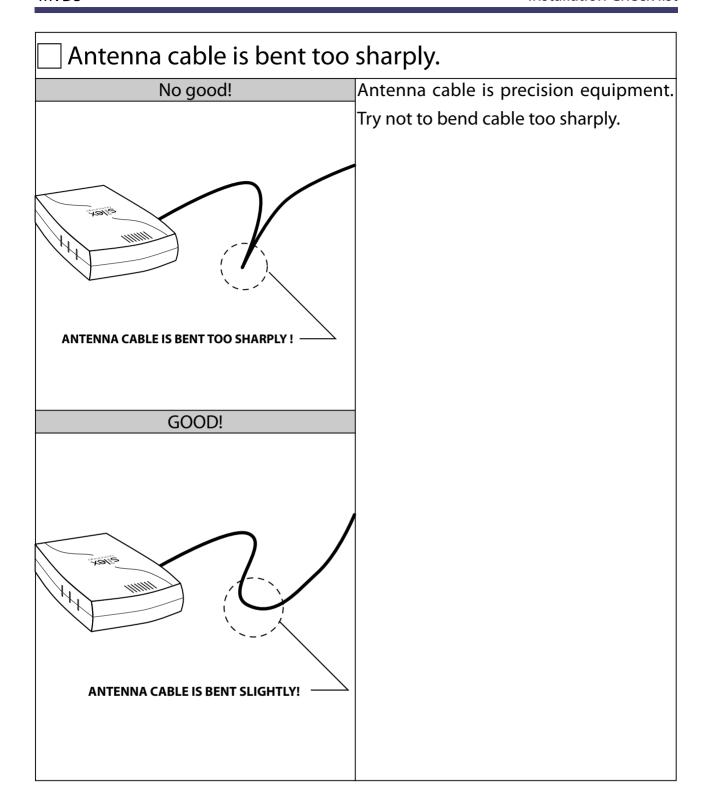


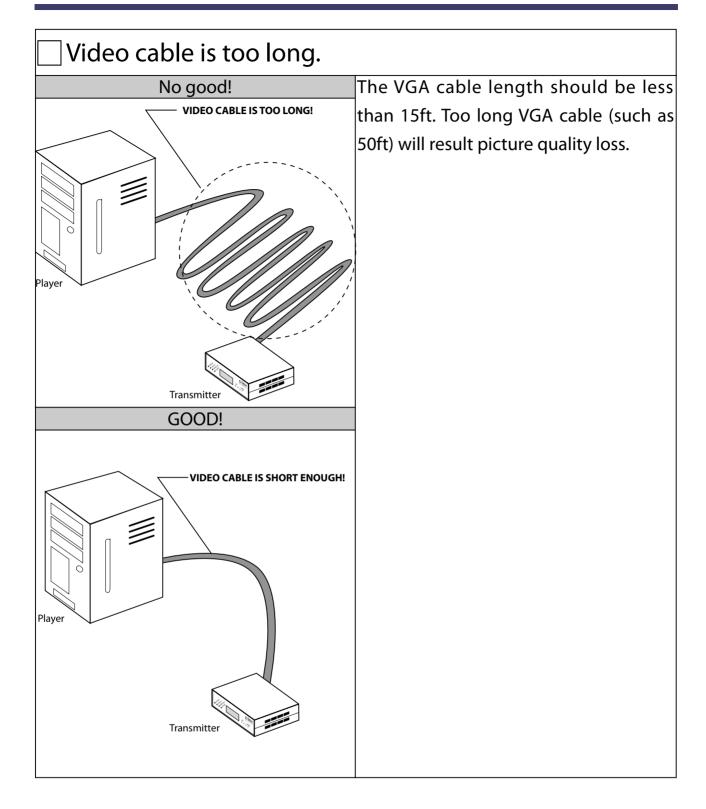
Obstacles between the transmitter and receiver antennas will significantly interfere with the performance, especially if they are made of metal. Be careful that columns at the pump station site do not interrupt the line-of-sight to the transmitter antenna.

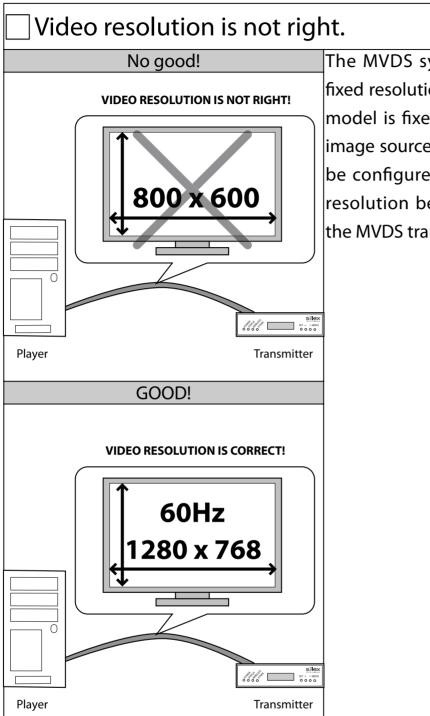












The MVDS system is designed with a fixed resolution (for example, the WXGA model is fixed at 1280x768x60Hz). The image source (media player or PC) must be configured with a matching video resolution before it is connected with the MVDS transmitter.