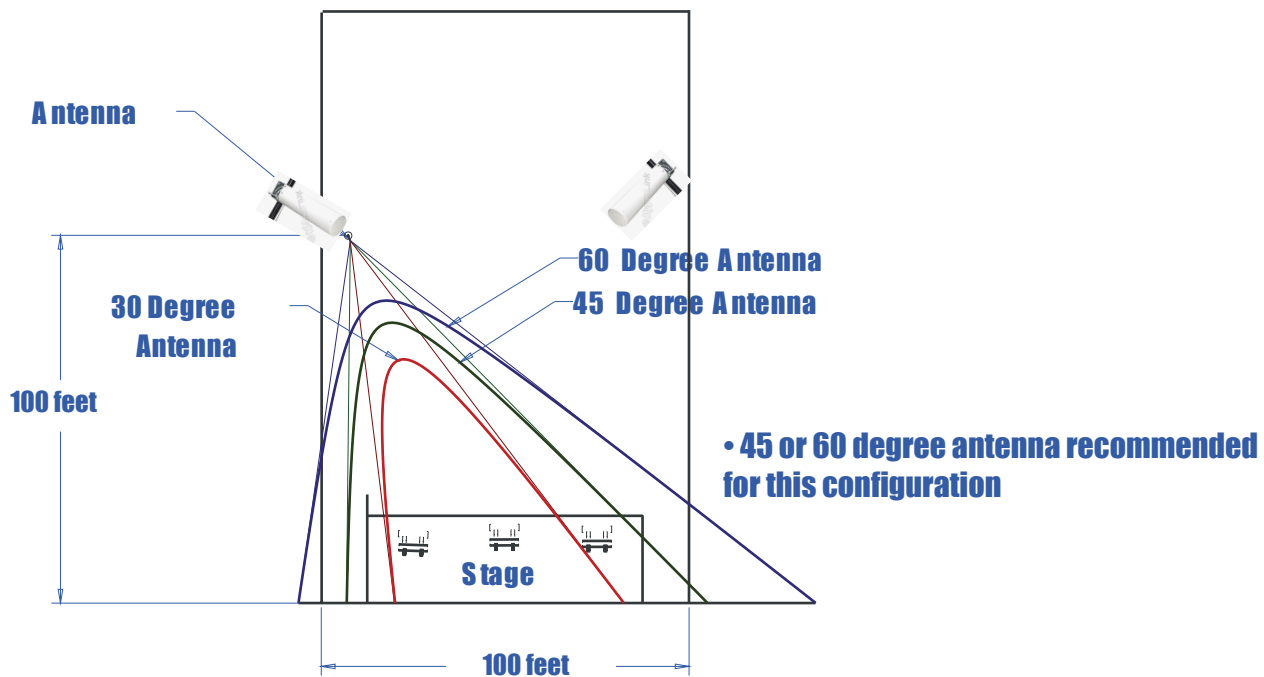


Using Directional Extension Antennas

These antennas are used in applications where you need to focus the pickup pattern (beam width) of the antennas specifically on the transmitters. This allows for maximum signal strength from your transmitters and reduces the potential for interference from devices that fall outside the beam width of the directional antennas. For best results choose an antenna with the narrowest possible beam width, but not so narrow that the coverage of your performance area is compromised.

1. **Choose the directional antenna** that best suits your application. The antennas shown on the price list include their beam width in degrees.
2. Using the example diagram below to **confirm that the antennas will cover your performance area**, based on where you plan to install the antennas. The key is choosing where your antennas can be mounted and then choosing an antenna whose beam width will completely cover the area where the transmitters will be used. Note the minimum mounting distances for each antenna as shown on the price list.
3. Using the Coaxial Cable Attenuation Table on page 36 of the SWM7000 Operating Guide, **choose the right cable for your cable run**. In general RG58 should only be used in runs of 50' or less. Longer runs should use RG8 or equivalent.
4. You may need an antenna signal amplifier, or an antenna combiner. See Sabine's SWM7000 Application Guide for more information on using these.



Note: Only one set of antenna patterns shown for clarity You must always use antennas in pairs to maintain diversity

SABINE
the sound of innovation