

Advance Flood Warning Systems



Each year more deaths occur due to flooding than from any other thunderstorm related hazard. The majority of flood deaths occur in vehicles, and most happen when drivers try to navigate through flood water. It is difficult to judge the depth of moving water; and therefore, easy to underestimate it's force and power. One inch of rapidly moving flood water can cause a person to lose control of their vehicle. Water that is two feet deep can float a large vehicle downstream, even a Sport Utility Vehicle.

Fortunately, many of these drownings are preventable. High Sierra Electronics is a leader in automated warning systems for flooded roadways and low water crossings. Our equipment can predict weather changes, identify threats to road surface conditions, disseminate information, and trigger the automatic operation of remote-controlled crossing arms or warning signs with flashing lights.

Since 1992, High Sierra Electronics has provided thousands of hydrological monitoring sites to the National Weather Service, USGS, USCOE, river authorities and other agencies. In addition to flood warning, this data is used for the purpose of monitoring and modeling precipitation, drainage and stream flows.



In 2000, High Sierra Electronics brought flood warning and stream flow management to a new level by providing automatically activated Advance Warning Systems to warn motorists of flooded roadways in real time. These Advance Warning Systems are easily integrated in with existing ALERT monitoring systems providing seamless control and notification while supplementing existing regional drainage and river flow databases.

These Advance Warning Sites with flashing lights and sign are typically solar powered and activate themselves locally when predetermined flood conditions occur. The systems then communicate their status to a central base station via any of a variety of communications means.

Key to the strength and flexibility of High Sierra Electronics Advance Warning Systems is the power its monitoring software brings to agencies. Not only does the software monitor water levels and light activation at each Advance Warning location in real time, but it allows comprehensive control, override and alarm notifications. With over 250 flashing light or crossing gate sites installed, High Sierra Electronics' Advance Warning Systems help save lives and property.