

# SPEC SHEET

## FRY RELEASE CONTAINER

**Name:** Fry Release Container (FRC)

**Dimension (D x W x H):** 120 mm x 190 mm x 210mm

**Weight:** 1.6 kg

**Power Supply:** 9V Alkaline battery

### Design Rationale:

The FRC is designed to transport fry to a safe release area and allows them to acclimate to local conditions. It will automatically release fry after the time for transportation and acclimation.

### How Fry Release Container Works:

The fry release container consists of an electronics hull and an outer frame. The electronics hull contains a timer module and the battery power to control the electromagnet. The outer frame holds the fry in the underwater environment. Once the system activates, the relay module is in the normally closed state, the magnetic coil generates magnetic force. It attracts the coin attached to the lid of the outer frame to close the container. Once the countdown is completed, the timer module sends the trigger signal to the relay. The circuit of the magnetic coil will become an open circuit, and the lid will open due to the loss of the magnetic force. Finally, the fish will fall due to its negative buoyancy and without the support of the cover.

