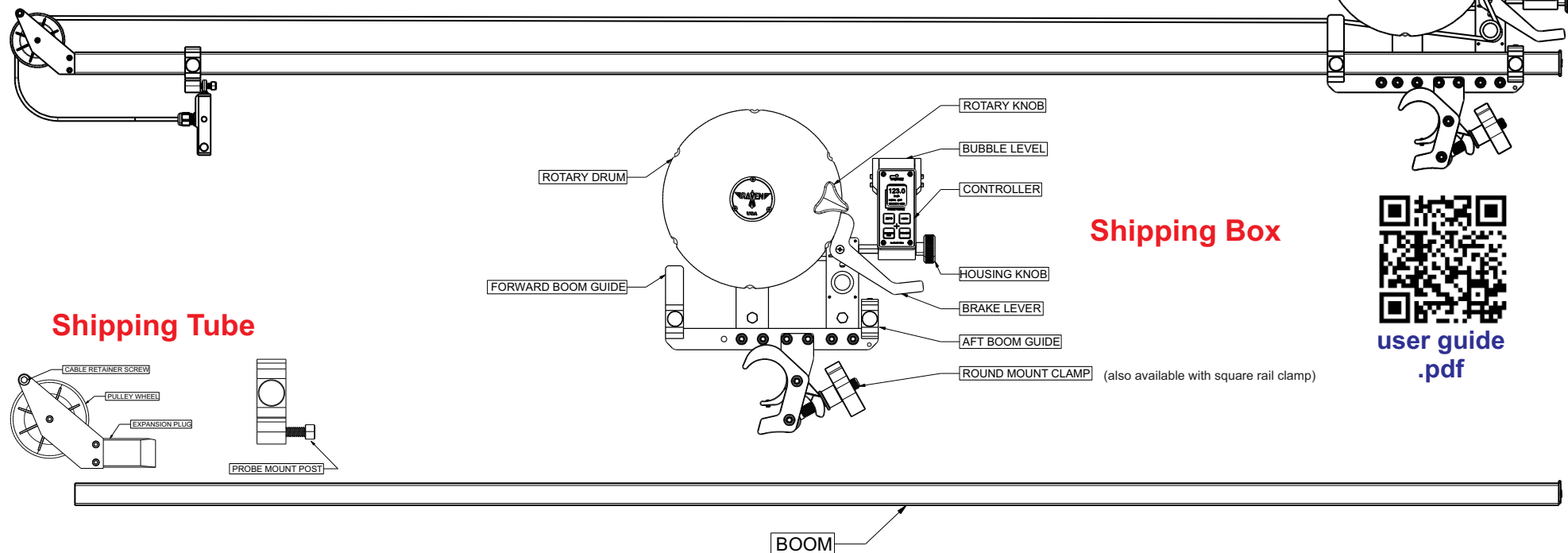
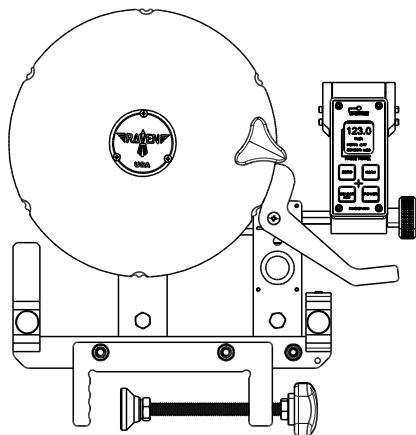


FILTER MEDIA MANAGER S-60100

manufactured by Raven Environmental Products



UNPACKING the box



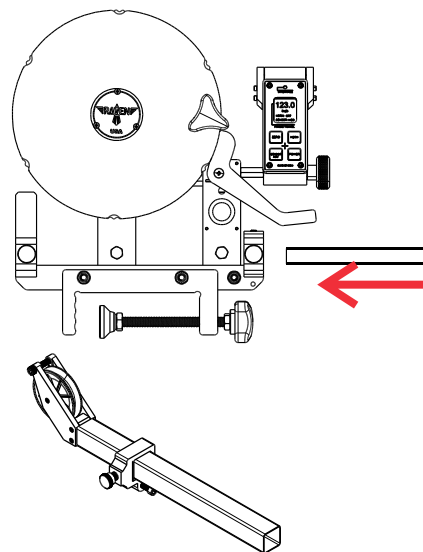
The Rotary Drum and electronic controller ship in a box separate from the Boom.

To protect the sensor probe from damage, the probe is positioned against the Rotary Drum under tension. Simply press the Brake Lever to release the tension and pull the sensor away from the drum.

The Controller mount is designed to allow it to rotate if inadvertently knocked. Simply position the display at a comfortable angle and tighten the Housing Knob.

The Rotary Drum is ready for Boom installation.

UNPACKING the shipping tube



The carbon fiber Boom comes inside a shipping tube with the Pulley, Probe Mount and Aft Expansion Plug.

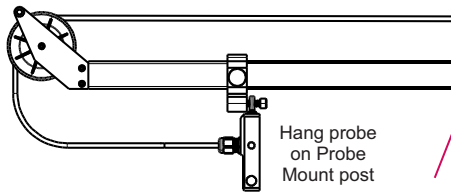
Before installing the Pulley and Probe Mount, insert the Boom from the right side into the Aft Boom Guide and continue through the Forward Boom Guide far enough to allow for installation of Probe Mount and Pulley.

Probe Mount Installation: Slide Probe Mount onto Boom as shown above. Position about 6" from the end of the Boom and secure with thumb screw.

Pulley installation: Insert Pulley into Boom end as shown above. With a phillips screwdriver, tighten the expansion screw until the Pulley is securely mounted inside the Boom.

PREPARE FOR USE routing the sensor cable

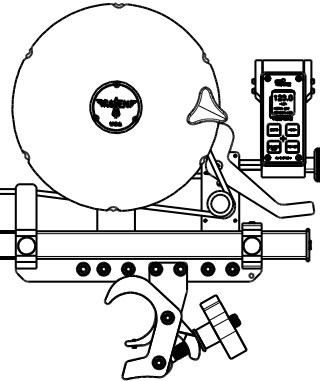
Unscrew Pulley Retainer Screw enough to allow cable to lay on pulley. Tighten to secure cable on pulley.



Hang probe on Probe Mount post



[user guide .pdf](#)



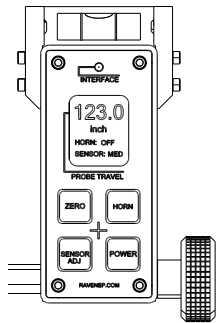
Press the Brake Lever and pull enough cable off of the Rotary Drum to allow the sensor to reach past the Pulley.

Route the cable under the Roller, then over the Forward Boom Guide roller.

Unscrew the pulley retainer screw just enough to allow the cable to lay on the pulley. Tighten the retainer screw to secure the cable on the pulley.

Hang the sensor probe on the probe mount post. This will preserve the life of the cable when transporting throughout the plant.

PREPARE FOR USE power up



Install three included AAA batteries in compartment located on backside of Controller.

Press Power button. Raven logo appears and Red Interface light flashes.

Press Horn button to "ON."

Place finger between gap in sensor probe to illuminate and red Interface light and sound the horn.

MEASURING FILTER MEDIA EXPANSION

Remove the probe from the probe mount post.

Clamp Filter Media Manager onto the safety railing at the filter.

Press the brake lever and reel out the probe to rest on compacted media bed with the cable taut. Do not allow the probe to free fall with the brake lever depressed.

Press ZERO button on the Controller. This is your baseline for measuring media expansion when the backwash begins.

As the backwash begins and the dirt and debris rises towards the wastewater troughs, the probe will illuminate the red interface light and the horn will sound if turned on. Do not begin to raise the probe until the water has cleared of turbidity and the media begins to expand.

As the media expands, press the brake lever and reel in the probe just until the light goes out. The media will continue to expand and illuminate the interface light. Continue raising the probe until the media stops expanding.

Note the probe travel in inches on the display. This is the amount of media expansion used to calculate the percent of expansion in conjunction with the depth of the media.

Warranty: 1 year parts and labor.
Call Raven direct at 314-822-1197
email sales@ravenep.com.

Raven Environmental Products
448 E Clinton Pl, Ste B
Saint Louis, MO 63122 USA



A NOTE ON SENSOR ADJUSTMENT:

The sensor uses an infrared signal to interpret the amount of solids in the sensor gap.

"High" equates to detecting the smallest amounts of solids in the gap.

"Low" equates to detecting only larger amounts of solids blocking the gap.

"Medium" is in between "High" and "Low."

The operator should experiment with these settings as each plant will have differing responses based on the age, cleanliness and type of media.

See the enclosed memo [Establishing Your Standard Sensor Setting](#)