

# RVS-1

## REMOTE CAMERA SYSTEM



Client	CH2M Hill - Hanford Tank Farm
Technical Point of Contact	David Smet (509) 539-1674
Period of Performance	November 2006 - January 2007

### DESCRIPTION:

The RVS-1 is a remote-operated robotic arm with an integrated camera system that can be deployed through a 4 inch (101mm) diameter opening. The arm is housed in a coated carbon steel containment tube with a flange connection for mounting the arm to a tank.



The robotic arm uses telescoping carbon fiber tubes that can provide a reach of up to 38 feet (11.6m). An elbow joint and wrist joint are provided at the end of the last telescoping tube to give the arm maneuvering flexibility so the camera can be positioned for viewing around objects.

Lights are located near the camera and move with the camera to provide better viewing. The operator controls for the robotic arm as well as the camera controls are located in a single control panel that can be located up to 500 feet (152m) from the robotic arm.



### FEATURES:

- ➔ Telescoping arm with a maximum reach of 38 feet (11.6m)
- ➔ Narrow profile allows access through limited openings (4 inch minimum)
- ➔ Four degrees of freedom allows for camera mobility around obstacles
- ➔ Two (2) MR-16 spot lights at 25 or 150 Watt each.
- ➔ Fully remote movement, zoom (22x), and focus
- ➔ Arm can be completely retracted into containment tube for service/storage

### SPECIFICATIONS:

Diameter	4 inches (101mm)
Length (max)	38 feet (11.6m)
Height	20 feet (6.1m)
Camera	Samsung SCC-C4305
Lights	MR-16 Spotlights
Visual Range	>100ft (30.5m)
Articulation	30 inches (760mm)

## S.A.ROBOTICS

3985 S. Lincoln Ave Suite 100 | Loveland, CO 80537  
US (970) 663.1431 | UK (044) 0773.8888.848

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