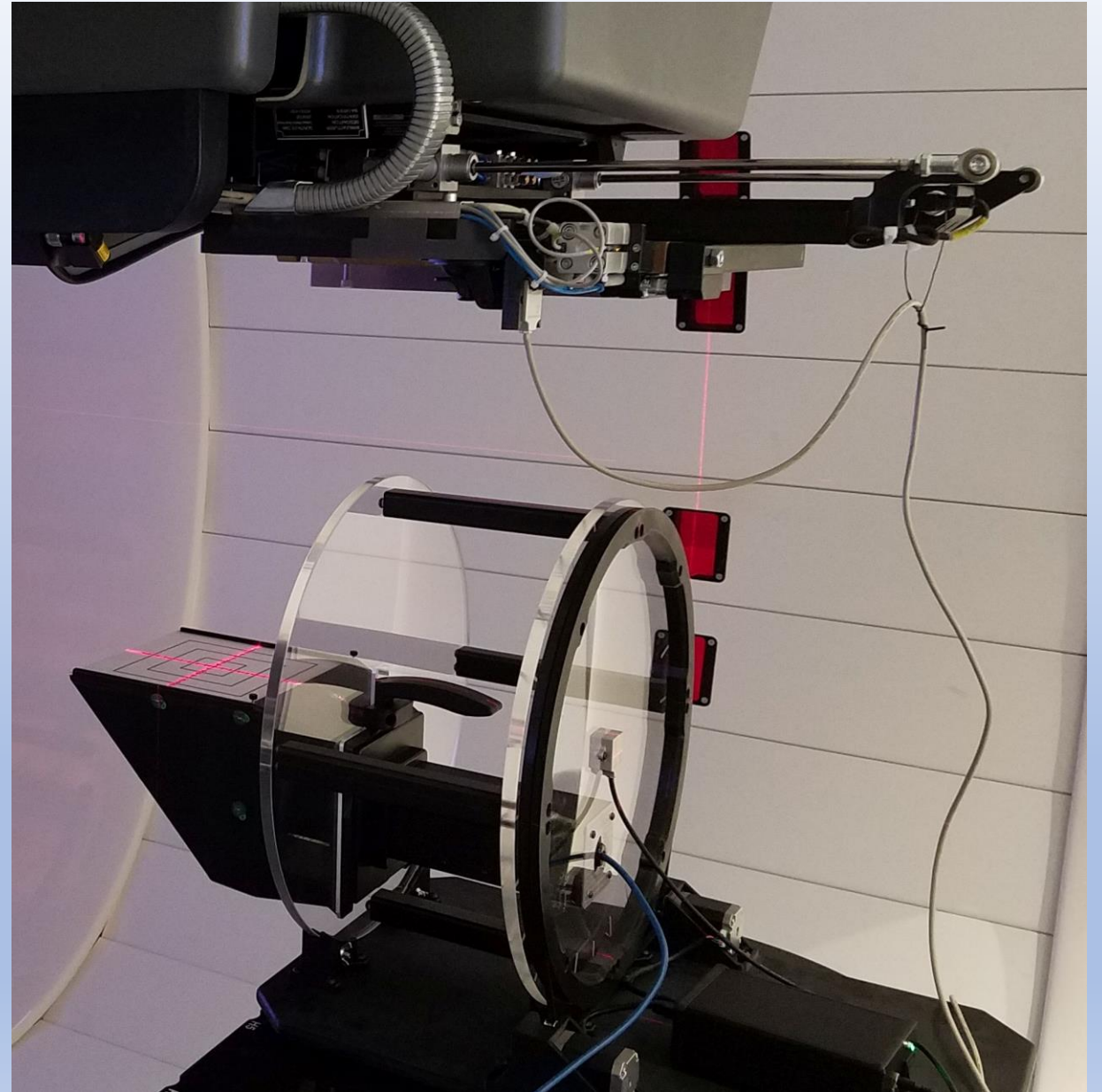
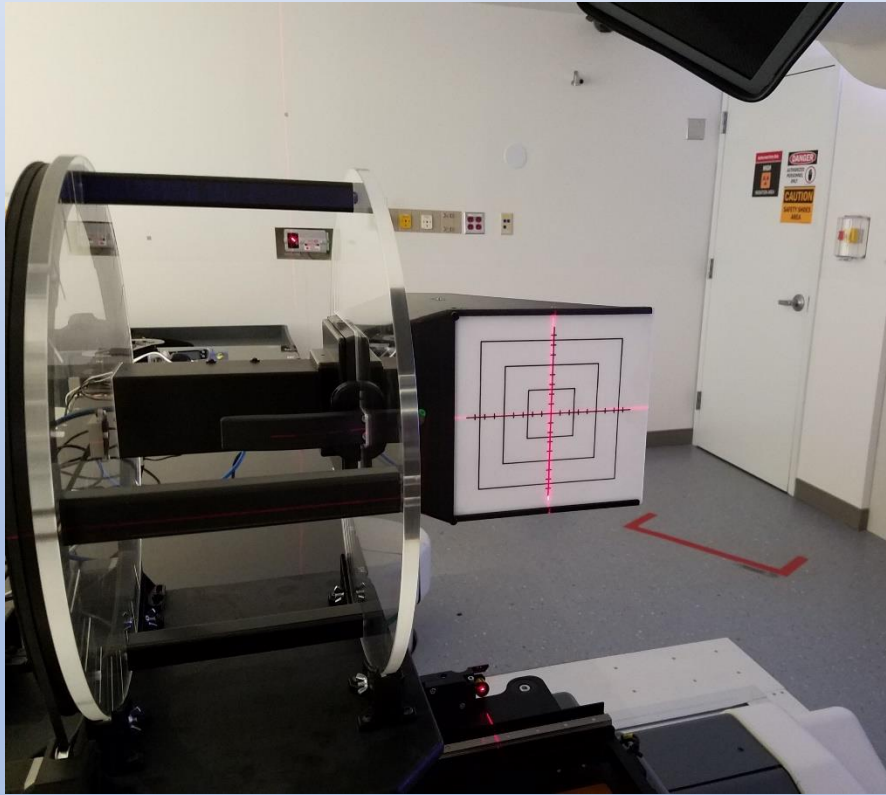




# Motorized Gantry Cradles



The Motorized Gantry Cradles available for the XRV-2000 Falcon and the XRV-3000 Eagle enable proton or X-ray deliveries to be captured at various gantry angles without the need to enter the treatment room.



XRV-2000 Falcon



XRV-3000 Eagle



Inclinometer angle data can be logged in CSV format.  
Advanced prediction algorithms handle a wide range of Gantry speeds.

BeamWorks Angle Server V1.7

### BeamWorks Angle Server

29.9 ← Gantry Cradle Angle      30.0 ← Snout Angle

Status: Ready

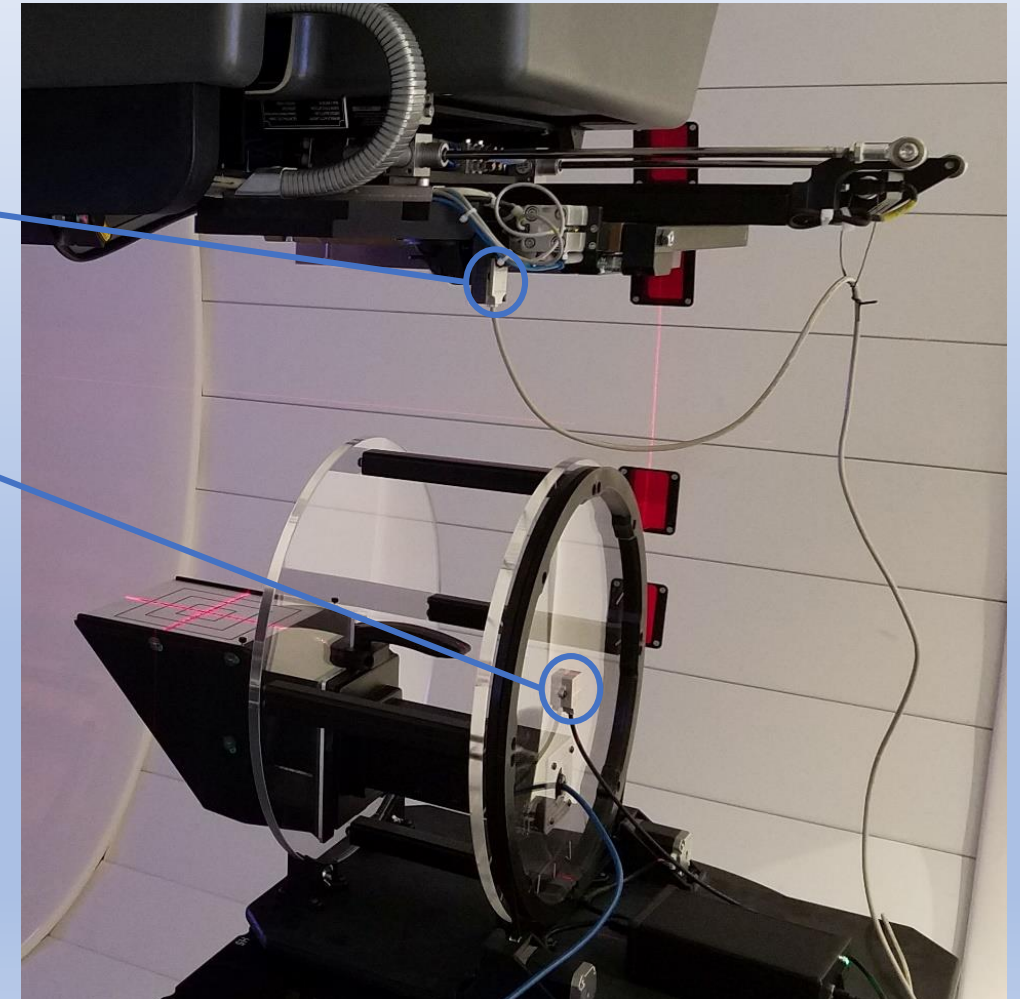
Program Runtime (in seconds): 779.0 [Reset]

Next Snout Angle Prediction:  Normal  Enhanced

History Control:  Enable  Basic  Expanded

```
13:07:32.54,Cradle,05.4,Motor,05.5,Snout,05.5,Prediction,05.7,Motor-Snout Delta,00.0
13:07:32.79,Cradle,05.5,Motor,05.8,Snout,05.6,Prediction,05.8,Motor-Snout Delta,00.2
13:07:33.06,Cradle,05.7,Motor,05.9,Snout,05.7,Prediction,05.9,Motor-Snout Delta,00.2
13:07:33.31,Cradle,05.9,Motor,06.0,Snout,05.9,Prediction,06.0,Motor-Snout Delta,00.1
13:07:33.57,Cradle,05.9,Motor,06.2,Snout,06.1,Prediction,06.3,Motor-Snout Delta,00.1
13:07:33.82,Cradle,06.2,Motor,06.4,Snout,06.4,Prediction,06.6,Motor-Snout Delta,00.0
13:07:34.09,Cradle,06.3,Motor,06.7,Snout,06.6,Prediction,06.9,Motor-Snout Delta,00.1
13:07:34.34,Cradle,06.7,Motor,06.9,Snout,06.8,Prediction,07.1,Motor-Snout Delta,00.1
13:07:34.60,Cradle,06.8,Motor,07.2,Snout,07.0,Prediction,07.2,Motor-Snout Delta,00.2
13:07:34.85,Cradle,07.2,Motor,07.3,Snout,07.1,Prediction,07.3,Motor-Snout Delta,00.2
13:07:35.12,Cradle,07.2,Motor,07.4,Snout,07.3,Prediction,07.4,Motor-Snout Delta,00.1
13:07:35.37,Cradle,07.4,Motor,07.6,Snout,07.4,Prediction,07.5,Motor-Snout Delta,00.2
13:07:35.63,Cradle,07.5,Motor,07.7,Snout,07.5,Prediction,07.7,Motor-Snout Delta,00.2
13:07:35.87,Cradle,07.6,Motor,07.8,Snout,07.5,Prediction,07.6,Motor-Snout Delta,00.3
13:07:36.13,Cradle,07.8,Motor,07.6,Snout,07.6,Prediction,07.7,Motor-Snout Delta,00.0
13:07:36.38,Cradle,07.6,Motor,07.8,Snout,07.7,Prediction,07.7,Motor-Snout Delta,00.1
13:07:36.64,Cradle,07.8,Motor,07.6,Snout,07.8,Prediction,07.9,Motor-Snout Delta,-00.2
```

Clear      Save



The Gantry Cradle is remotely controlled using a 30 meter cable from the laptop computer. The same computer takes real-time beam measurements using the phantom. Here are the applications for angle logging, beam capture, and motor control.

The screenshot displays a Windows desktop environment with three primary applications open:

- BeamWorks Angle Server V1.7:** Shows real-time data for Gantry Cradle Angle (-30.3) and Snout Angle (-30.1). The status is 'Ready' and the program runtime is 257.8 seconds.
- WinLVS - XRV-2000 BeamWorks:** A script editor window with a menu open, showing options like 'Run Script', 'Debug Script', and 'Change Script'.
- BeamWorks Gantry Cradle Control V2.8:** A control interface showing Gantry Cradle Angle (-30.3), Snout Angle (-30.2), and Internal Motor Angle (-30.40). It includes a 'STOP' button, status indicators, and manual positioning controls.

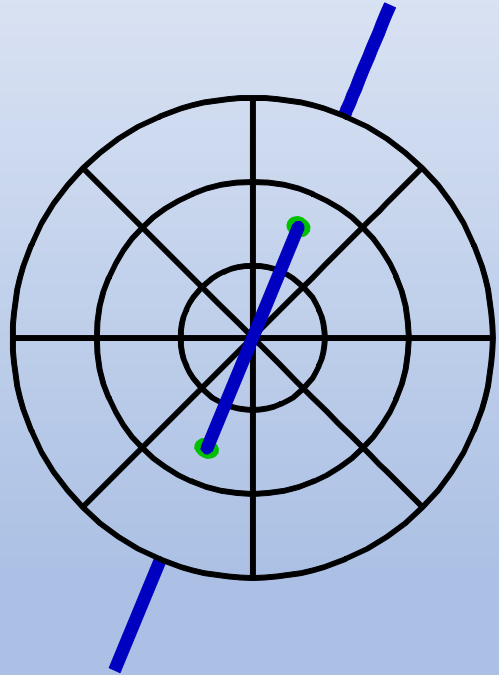
The BeamWorks Gantry Cradle Control interface includes the following details:

- Status: GantryCradle hunting to the snout sensor position.
- Output Data: /TV14000,14000,P228,228,R
- Raw Data Received: /0@i7
- Target Angle: 30.00 (30.00)
- Speed controls: 3.0 deg/sec, 2.0 deg/sec, 1.6 deg/sec, 1.2 deg/sec, 1.0 deg/sec (selected), 0.8 deg/sec, 0.6 deg/sec.
- Directional buttons: CCW 10 (deg), CW 10 (deg), CCW 1 (deg), CW 1 (deg), CCW 0.1 (deg), CW 0.1 (deg).
- Adaptive Follow Mode buttons: Start, Pause, Home: Gantry Cradle, Home: Internal, Hunt: Snout.
- Snout Hunt Enable button.
- Snout Delta Angle: 0.2

Motorized Gantry Cradle motion control modes allow the Falcon or Eagle phantom scintillator to automatically stay perpendicular to the beam delivery within 0.5 degrees.



# Digital Real-Time X-ray and Proton Beam Metrology Solutions



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