

Lantern Balance Tips

Following primary resection, Lantern is designed to provide the surgeon with info on extension and flexion gaps. This document is intended to explain the data the system displays.



Extension

20mm = distance from center of tibia to the center of the femur

3° is the angle of femoral paddle in the coronal plane

Flexion

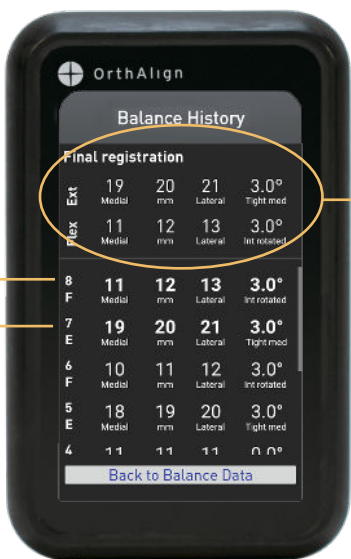
12mm = distance from center of tibial paddle to center of femoral paddle

3° Femoral rotation is measured with respect to the tibia

Notes

White numbers are measured values

Gold numbers are calculated values based on the angle of the femoral paddle in relation to the tibia



Balance History

Lantern will display all previous gap registrations to show the user how the joint behaved after various adjustments.

Tip: User must tap Register button when tensor assembly is in the joint space after torque driver click is heard in order to accurately save registration data.

Most recent registrations

8th registration - Flexion

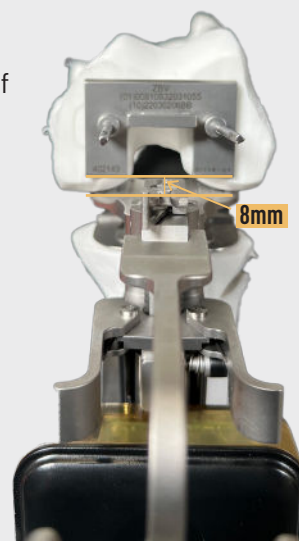
7th registration - Extension



Drill Guide in Practice

Assuming an 8mm drill guide setting: Drill guide will position drill plate 8mm anterior of center of femoral paddle and parallel to tibial paddle.

Because posterior cuts will be made parallel to the tibia, the component will be externally rotated 3° with respect to the posterior condylar axis.



Note

Lantern IMU measures rotation of navigation unit in response to the angle of the femoral paddle

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The Lantern® Surgical Assistant is only to be used by a trained licensed physician. Please refer to the Lantern Surgical Assistant Instructions for Use for complete important safety information. The Lantern Surgical Assistant is a computer-controlled system intended to assist the surgeon in determining reference alignment axes in relation to anatomical and instrumentation structures during stereotactic orthopedic surgical procedures. The Lantern Surgical Assistant facilitates the accurate positioning of implants, relative to these alignment axes. Example orthopedic surgical procedures include but are not limited to: Total Knee Arthroplasty, Unicompartmental Knee Arthroplasty; Tibial transverse resection.