TL-HEX™

TrueLok Hexapod System Quick Reference Guide

A Streamlined guide for radiology technicians to acquire X-ray images with Hexapods

This guide illustrates the general suggested rules to apply when taking the X-ray images with the TL-HEX hexapod system, in order to exploit the full potentiality of OrthoNext™ 2.1 and, in particular, of the x-ray analysis module.

OrthoNext 2.1 enables the uploading of the patient's X-rays (AP and Lateral), for different strategies of pre-operative planning and treatment, working directly on images and transferring the calculated parameters in TL-HEX for a more straightforward prescription calculation.

Acquiring X-ray images: AP and ML

AP - Anterior/Posterior acquisition
The preferable position is with the X-ray source under the table and the image intensifier above, this is the desired position for the scatter radiation.

ML - Medial/Lateral acquisition
Angulate the C-arm at 90° and turn the C-arm either clockwise or anticlockwise, depending on the side of the bone to be captured.
Both, the AP and ML X-rays must be taken at 90° between them, as precisely as possible, in order ensure matching between the images acquired and the OrthoNext 2.1's digital template (fig. 1).

General methods for taking an X-ray with Hexapods

Two X-rays images (AP and ML) must be taken and then used to insert data in the OrthoNext 2.1 software. The general rule in the orthopaedic world is to take the X-ray as perpendicular as possible to the injured bone, but when working with Hexapods some variations may occur.

With OrthoNext 2.1 - The C-arm must be positioned perpendicular to the longitudinal axis of the bone reference segment (fig. 2). In this case the distance between the reference ring and the level of osteotomy will be L' (the more tilted is the ring, the more different is L' from L).

The distance L' is accurate because it is not influenced by the ring angulation. Furthermore, one of the main advantages of the OrthoNext 2.1 is that all the parameters are automatically uploaded into the software, thus minimizing the potential users' errors (standard procedure universally adopted by radiologists).

Uploading X-rays into the OrthoNext 2.1

X-rays can be uploaded on OrthoNext 2.1. Accepted formats are .jpeg or .png, up to a maximum size of 2.5MB.

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L' = 14cm
O = Level of Osteotomy

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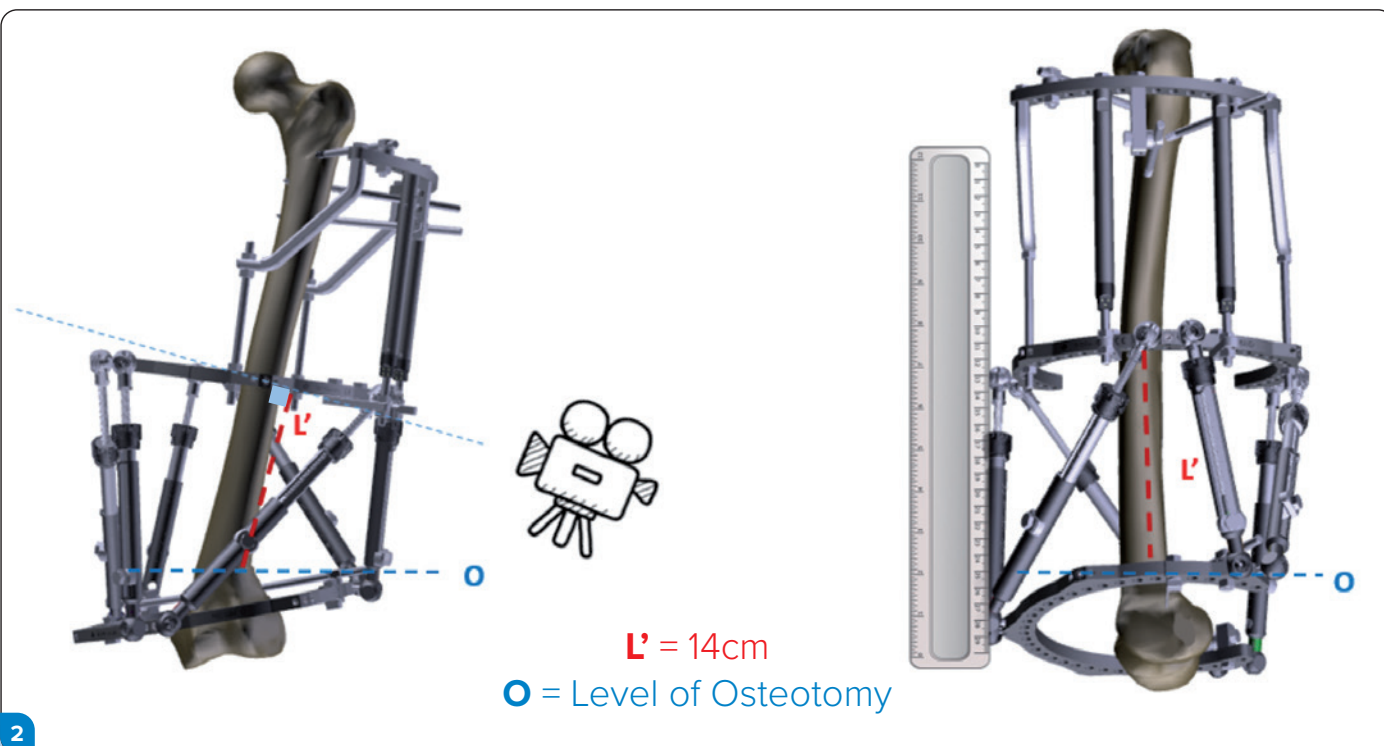
X-ray: perpendicular to the reference bone segment

Please refer to the "Instructions for Use" supplied with the product for specific information on indications for use, contraindications, warnings, precautions, possible adverse events, MRI (Magnetic Resonance Imaging) safety information and sterilization.

Electronic Instructions for use available at the website http://ifu.orthofix.it

Electronic Instructions for use - Minimum requirements for consultation:
• Internet connection (56 Kbit/s)
• Device capable to visualize PDF (ISO/IEC 32000-1) files
• Disk space: 50 Mbytes

Free paper copy can be requested from customer service (delivery within 7 days):
tel +39 045 6719301, fax +39 045 6719370,
e-mail: customerservice@orthofix.it

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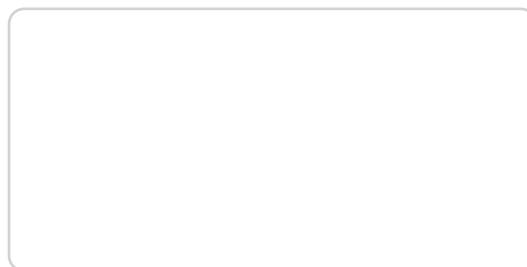
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