

Target Verification: Lorad Stereotactic and Affirm Biospy Arm

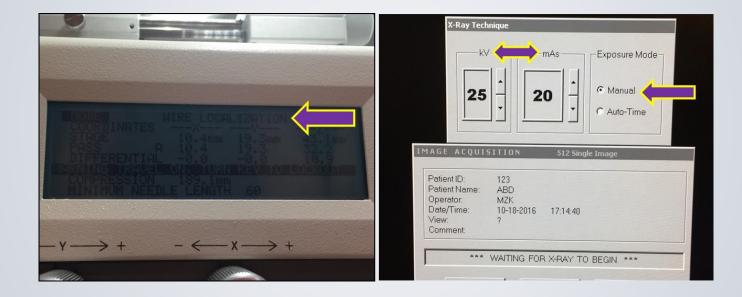
- Target Verification is a method used to confirm targeting accuracy with stereotactic and Affirm units.
- Target Verification provides a visual confirmation to the millimeter and should be utilized before patient use to:
 - Confirm the dial in "Z" number on unit
 - Visually show needle tip position at deployment, show "unsheathing" and need to go beyond target. Great for training.



- Can use a targeting phantom, or even a paperclip. More than likelyaccount will not have a targeting phantom for these older stereo units.
- Make sure Wire Localization Mode is selected
- Ask technologist to set a manual technique. 20 mAs at 25 kvp. Phototimed exposures will not work for verification.
- Tape paperclip to backplate- center to opening in compression plate.
- Bring compression plate close to, but not touching paperclip.
- Take SCOUT image and stereo pair



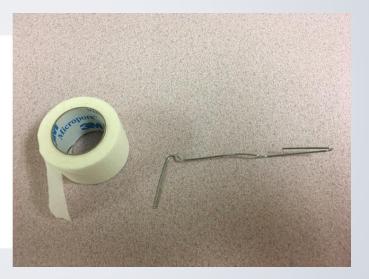
Wire Localization Mode and Manual Technique





Paperclip Method

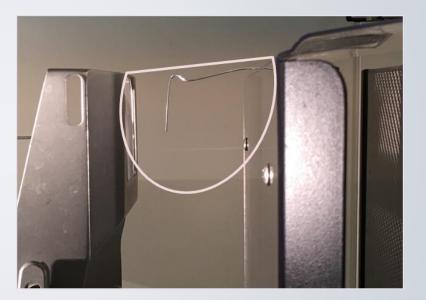






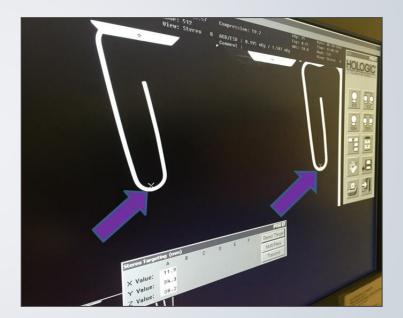
Prepare for Imaging

- Tape paperclip to top of backplate
- Picture tip of paperclip representing the target within the breast



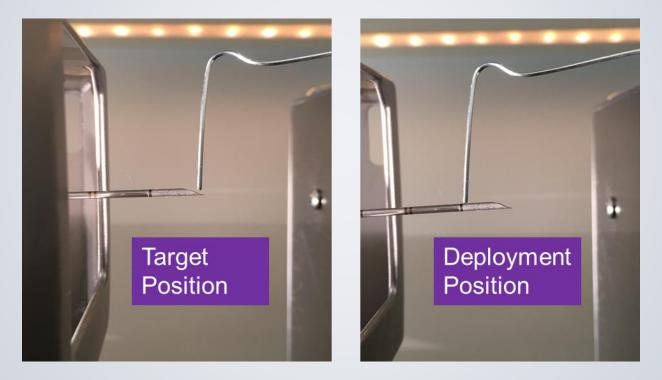
Take SCOUT and Stereo Pair

- Target on tip, or same portion of paperclip in both stereo images
- Transmit and confirm coordinates
- Load a demo 10 cm introducer through 2 needle guides
- Have tech zero the needle and then go to target position
- Dial the "Z" until tip is at target (paperclip), note the "Z" this is target position.
 - Dial "Z" until needle tip is desired distance beyond target (6-8 mm), note the "Z" AS THIS IS DEPLOYMENT POSITION





Lorad Target Verification





Lorad Stereo – Confirming the "z"

Whatever the "z" value is at deployment position, is what they will dial into with our needle moving forward.

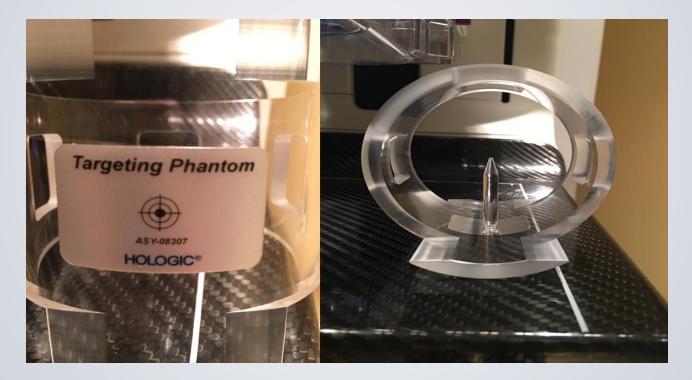




- Needle must already be programmed into unit by Hologic (10 cm only)
- Ask technologist to set a manual technique 20 mAs at 25 kvp
- Make sure our needle is selected
- Use targeting phantom or paperclip
- Position for SCOUT image and stereo pair

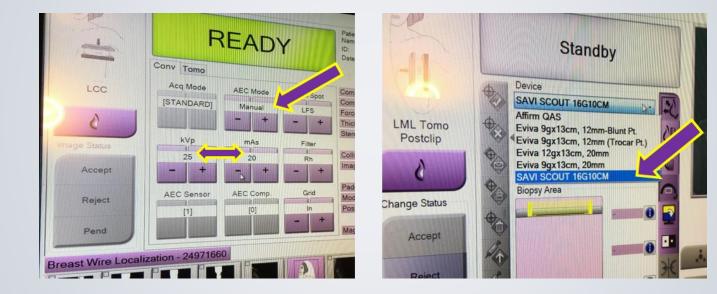


Affirm Targeting Phantom





Manual Technique and Needle Selection





Take SCOUT and Stereo Pair



- Target on tip of acrylic phantom
- Transmit and confirm coordinates
- Load a demo 10 cm introducer through 2 needle guides
- "zeroing" the needle is automatic on Affirmhave tech take to target position
- Dial the "Z" until tip is at target (tip of phantom), note the "Z" this is target position.
- Dial "Z" until needle tip is desired distance beyond the target
 - (6-8 mm), note the "Z" AS THIS IS DEPLOYMENT
 POSITION
 FOR INTERNAL USE ONLY DO NOT DISTRIBUTE



Affirm Targeting Phantom







Affirm – Confirming the "Z"



Whatever the "z" value is at deployment position, is what they will dial into with our needle moving forward.

- Can be done routinely (daily) if account desires
- MUST BE DONE- Prior to reflector implants at new facility, or on a unit never used for SCOUT before.
- MUST BE DONE- After initial needle programming on Affirm
- MUST BE DONE- After service on unit
- SHOULD BE DONE- In front of radiology team, as a visual confirmation of "Z" at evaluation or implementation training.
- SHOULD BE DONE as troubleshooting strategy, in account that has any placement issues (not where they thought reflector should be) to confirm accuracy of targeting coordinates.