

## XRT Radar updates in ABM version 21.4.5.1

1. Radar software 1.49
  - a. Ground detection improvement in dense canopy
  - b. Added Sensitivity Setting for Radar to sense dry canopy
    - i. Height Sensor Sensitivity setting
    - ii. 1 = Ground only
    - iii. 100 = High Sensitivity
2. New Modes: 4 operation modes
  1. Normal Ground
  2. Ground Locked
  3. Normal Canopy
  4. Canopy Locked

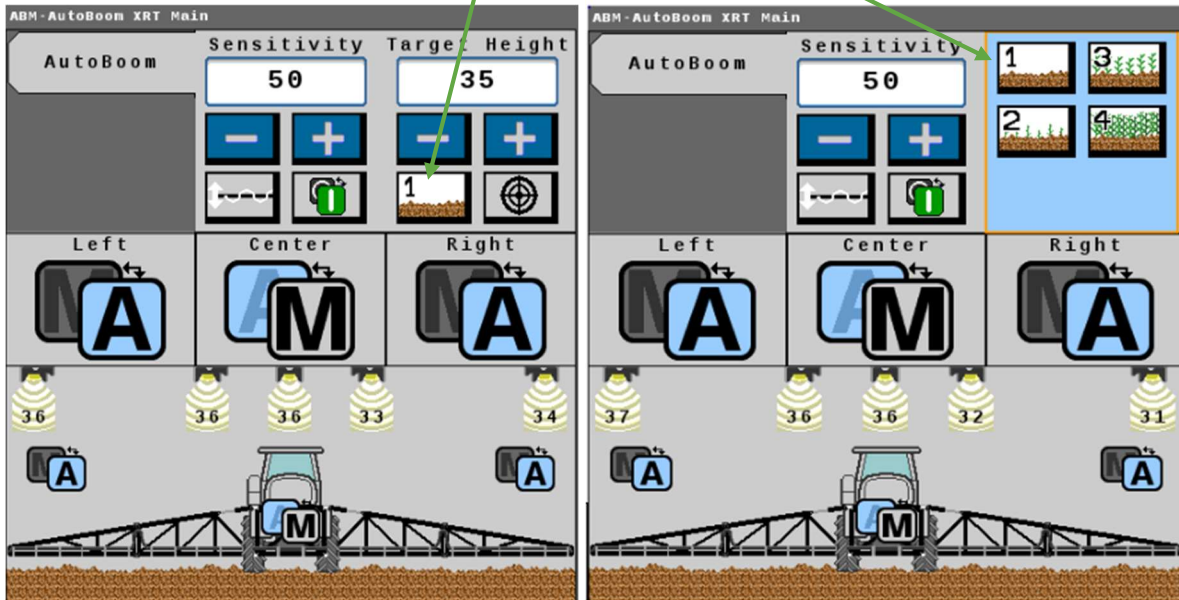
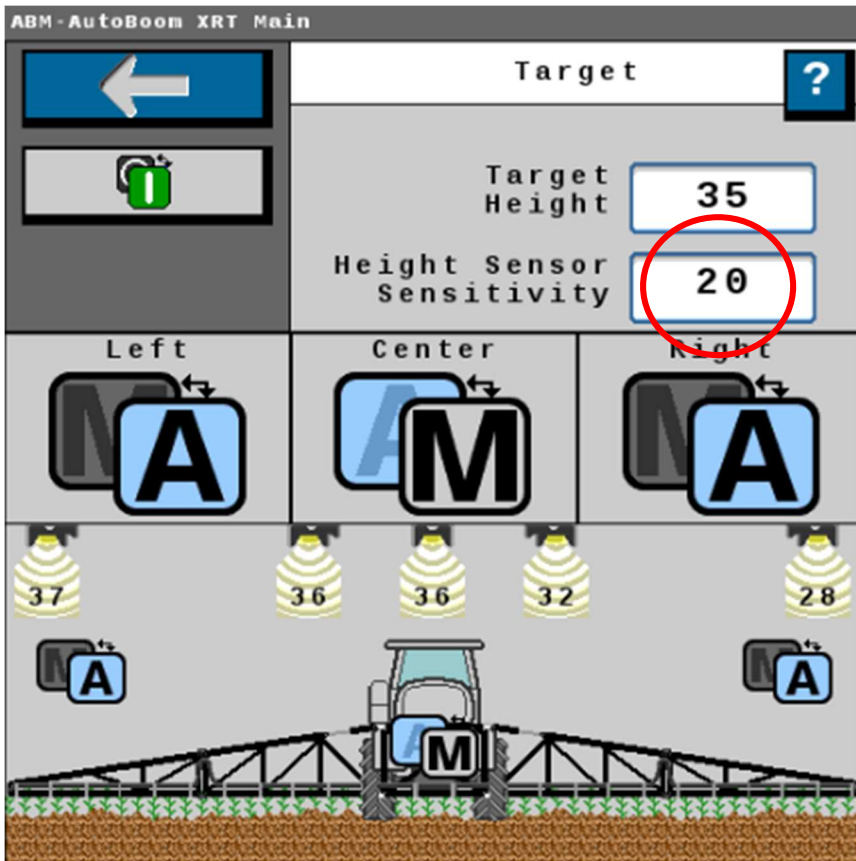
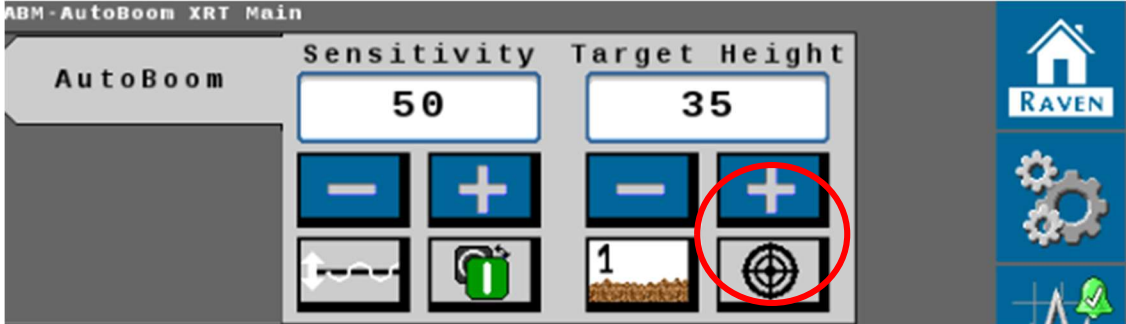


Figure 1. Target Modes

1. Ground (1)
  - Same as before...the ground signal as the primary target, but we will use the canopy signal if it has a higher confidence value.
2. Ground Locked (2)
  - New...Only uses the ground signal
  - Potential use cases:
    - Sparse crop where you want to avoid erratic canopy readings
    - Spray tips that produce a significant amount of drift
3. Canopy (3)
  - Same as before...the canopy signal as the primary target, will use the ground signal if it has a higher confidence value.
4. Canopy Locked (4)

- New...Only uses the canopy signal
- Potential use case:
  - Crops with very thick, dense or dry canopy

Select Target Icon to access the Height Sensor Sensitivity → 



1-20 is low canopy detection or high spray drift suppression

20-100 Allows the sensor to be more sensitive in detecting canopy but turning off the spray drift suppression the higher the number

45 is the default setting which would be similar operation to previous control versions