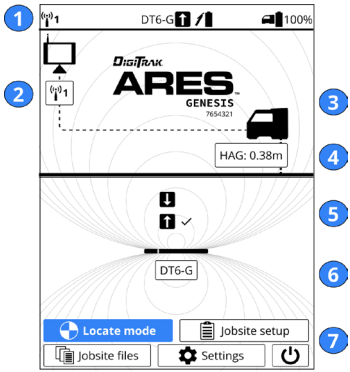
DigiTrak® ARES™ Genesis Locator Quick Start Guide



1. Screen
2. D-pad control
3. Trigger
4. Locator battery
5. Calibration marker

1. Unlock the ARES battery by connecting it to the charger.
2. Install the battery and hold the trigger for 2-3 seconds.
3. Click to acknowledge the warning.
4. Use the D-pad to scroll menu options and buttons, toggle on/off switches, and click the trigger to select.

Home screen after setup

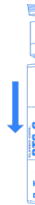


1. Status bar
2. Remote display telemetry channel*
3. Locator type
4. HAG™ (Height Above Ground) set distance*
5. Locator active frequencies (**Up** selected)*
6. Transmitter model*
7. Navigation to other screens and off button (**Locate mode** selected)

* Select these items to see more detail or make changes.

1) Power on the transmitter

The DT6-G has **Up** and **Down** frequencies. How you install the battery determines the active frequencies when powered on.



- Point the transmitter down, insert batteries from the top, and screw the cap on to power on with the **Down** frequencies active. For this guide, start with **Down**.
- Point the transmitter up, insert batteries from the bottom, and screw the cap on to power on with the **Up** frequencies active.



The transmitter and locator automatically link when both are powered on. The active frequencies are displayed on the Home screen and status bar. The active frequencies on the locator and transmitter must match to receive data. Change the locator's active frequencies from the **Home** screen or **Jobsite setup**.

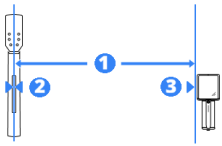
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Product ID: DR-ARES-G
Model: AE02
402-3016-21-A Metric

2) Calibrate the Down frequencies

Calibrate in an interference-free environment. Validate calibration every time you change transmitters or housings.

1. Install the powered on transmitter into the housing and place the locator the distance displayed on the screen.
2. Measure from the center of the transmitter to the calibration marker on the side of the locator, and then select **Run calibration**. Do not move the transmitter.
3. Validate the distance with a measuring tape. You can change the validation distance, if needed.
4. Select **Calibrate** to calibrate the other frequencies. Calibrate



1. Distance to measure (3 m to calibrate or other distance to check)
2. Center line of the transmitter is parallel to the locator
3. Inner edge of the locator (look for calibration marks)

3) Change frequencies and calibrate the Up frequencies

1. Point the transmitter up, insert batteries from the bottom, and screw on the cap to power on with the **Up** frequencies active.
2. For the initial setup, the locator changes the frequency to the uncalibrated frequency automatically. On the Calibration screen, click **Ready to calibrate**.
3. Repeat *Section 2)* to calibrate the **Up** frequencies and then validate the distance.



After the initial setup, you can also change the active frequencies of the transmitter using the Tilt method (above ground) or the 10-2-7 Roll method (below ground). See the **DCI DigiGuide**™ manual for instructions.

4) Locate and send depth

Select **Locate mode**. The **Locate mode/Jobsite menus** show you the current jobsite settings, including HAG and roll offset.

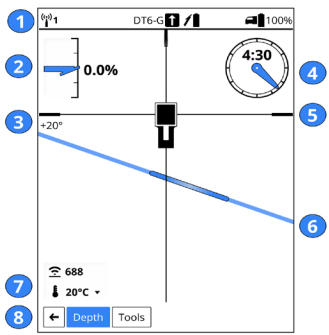
Basic locating steps

For accurate readings, always point the front of the locator towards the bore exit. Use **Up** frequencies for everyday active interference and **Down** for rebar and passive interference.

1. Center the target ball in the box and select **Depth**. This is the *Reference Depth*. The Locate Line (LL) may not appear if this step is skipped. Select the back arrow to return to Locate mode.
2. Make sure the locator is pointed towards the bore exit point.
3. Find the Front Locate Point (FLP) and Rear Locate Point (RLP) by centering the target ball in the box. Mark the positions.
4. Find the LL by centering the line in the box between the FLP and RLP (see Locate mode screen).
5. To view depth, select **Depth** at the LL on the line between the FLP and RLP.
6. Select **Send Depth** to send depth to the remote display. If there is an active log, select **Log data point** to log the rod data. The data is also sent to the remote display.
7. Return to **Locate** mode and repeat for other locate points as the drill head advances along the bore path.
8. See the **DCI DigiGuide** manual for detailed steps.

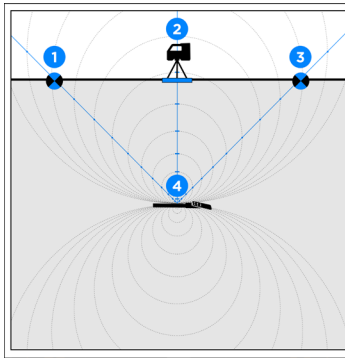
If you lose data or need to improve depth/data readings, on the **Tools** menu, select **Max mode**™.

Locate mode screen



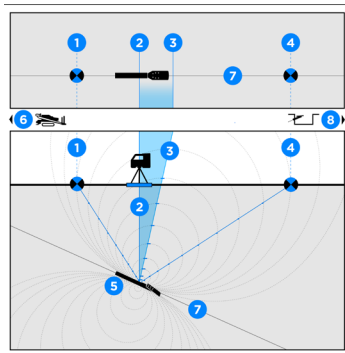
1. Status bar (transmitter type and battery life)
2. Pitch (level)
3. 20° yaw angle between locator and transmitter
4. Drill housing clock (no offset)
5. Target box, lines, and ball
   - *Target box* - black if off-target, blue if ball in the box and centered on both crosshair lines
   - *Crosshair lines* - blue, if the ball is centered on a line
   - *Ball* - black and white, if centered in box
6. Extended Locate Line over crosshairs or box
7. Signal strength and transmitter temperature
8. Go back to **Home** screen, **Depth** reading (selected), and **Tools** button

Visualize the transmitter signal field geometry



Transmitter with zero pitch (level)

1. RLP: Rear Locate Point
2. LL: Locate Line
3. FLP: Front Locate Point
4. Transmitter in housing



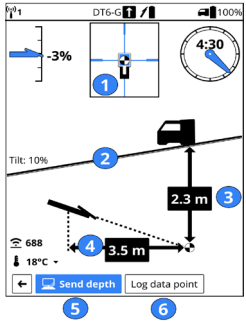
Transmitter at -45° pitch

1. RLP
2. Calculated LL (live pitch required)
3. LL without pitch
4. FLP
5. Transmitter in housing
6. Rig
7. Bore path
8. Bore exit point

If the locator does not have a reported pitch or is not facing the bore exit point, the locator cannot determine the position of the transmitter (the LL). Depending on positive or negative pitch, the LL could show up in front of or behind the transmitter. For more information, search the DCI DigiGuide for “Steep and Deep.”

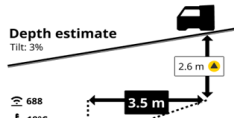
For accurate readings, the locator must be pointed towards the bore exit point.

Locate depth screen



1. Ball-in-the-Box® at the FLP or RLP
2. Ground tilt 10%
3. Transmitter predicted depth (Not valid at RLP)
4. Horizontal distance between transmitter and locator
5. Send depth data to remote (selected)
6. Log data point. See DCI DigiGuide manual for the *Log While Drilling* article.

Selecting **Depth** if you are on the boreline between the LL and FLP will result in an *estimated depth reading*. Estimated depth cannot be sent to the remote display.



The Depth screen is clearly labeled **Depth estimate** and the estimated depth measurement is displayed with a warning icon.

The further the drill head is from the locator, the less accurate the estimated depth. It is not accurate past 10.7 m. For safety, do not use estimates alone to determine a position for crossing utilities or obstacles.

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For detailed information, scan the QR code to go to the Digital Control Inc. website for the DCI DigiGuide manual and additional documents for this product.

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