

## Applications

- MWD: mud-pulse decoding
- LWD: geosteering

## Benefits

- Eliminates need for a PC with reliable and accurate decoding on the rig floor
- Increases flexibility as it is compatible with most positive pulse, QDT-style MWD-LWD systems, and various mounting and orientation options are available
- Simplifies surface gear set-up and use via wireless communication
- Decreases HSE risk since it is lightweight and easy to handle (only 15 lb)
- Increases data rates by reliably decoding shortened pulse widths with advanced detection firmware

## Features

- Wide-operating temperature: -40°C (-40°F) to 60°C (140°F)
- Built-in decoding hardware and interface software
- 12-in. class touchscreen, backlit, sunlight-readable display with resistive touch (lock/unlock)
- Linux operating system
- Class 1, Division 2 certification available upon request
- Wi-Fi capable

# BTR-Touch

## Integrated Wireless, Touchscreen Receiver/Display



Bench Tree's next-generation BTR-Touch MWD-LWD surface system is designed to enhance and simplify surface system gear set-up and use. By providing wireless communication between the rig floor and safe area, the BTR-Touch eliminates the need for lengthy yard cables that extend across the rig site, while reducing the possibility of communication noise failures.

The BTR-Touch ships in a ruggedized, lightweight transport case and comes as a complete kit with all accessories, including a safe-area-link (SAL), antennas, cables and software. Bench Tree's receiver/display offers powerful pulse receiving/decoding capabilities, eliminating the need for a PC.

## Interface Software

The interface software is designed for use with the touchscreen and enables access to the following information:

- Monitor: displays inclination, rotating inclination, gravity, gravity toolface, temperature, battery voltage, azimuth, magnetic field, dip angle and battery 2 status
- Survey data: displays the pulsed data log
- Receiver configuration values
- Decoding data display options
- Geosteering
- System information

All new BTR-Touch systems are installed with advanced detection firmware. This detection algorithm improves decoding in harsh and noisy environments, increases data rates up to 2.0 bits per second, reduces missed decodes by improving detection, eliminates downtime trouble shooting detection issues, and improves log quality with fast and accurate decoding.

To simplify your surface gear set-up and use, while reducing communication noise failures, contact the Bench Tree sales team for assistance.

## BTR-Touch (rig floor unit) Specifications

Dimensions	H x D x W: 10 in. x 3.75 in. x 14.25 in. 25.4 cm x 9.5 cm x 36.2 cm Display: 12 in. (30.48 cm) diagonal Weight: 15 lb (13.6 kg)
Ports/connectors	Power, USB, Ethernet (backup yard cable), serial, pressure transducer and antenna
Power	85 to 264 VAC, 50 to 70 Hz, 180 W
Environmental specifications	-40°C to 60°C Outdoor use

## BTR-Touch Safe-Area-Link (SAL) Specifications

Dimensions	H x D x W: 3.75 in. x 6.75 in. x 12 in. 17.1 cm x 9.5 cm x 30.5 cm Weight: 7 lb (3.18 kg)
Ports/connectors	Data out (DB9) connector, WAN and LAN, radio antenna, Ethernet cable backup yard cable, tool programming cable, power receptacle
Power	90 to 264 VAC, 47 to 63 Hz, 160 W
Environmental	Indoor use only

## BTR-Touch Antennas Specifications

Dimensions	H x D x W: 4 in. (10.16 cm) Weight: 1.3 lb (0.59 kg) per antenna
Range	More than 700 ft (more than 200 m) within line of sight
Type	Internal/external with a magnetic base
Environmental	Outdoor use

## Cables Specifications

BTR-Touch power cord (yellow)	59 ft (15.2 m)	Various power plug options are available
Pressure transducer cable	100 ft (30.5 m)	
Programming cable	75 ft (22.9 m)	
Yard Ethernet cable	350 ft (106.7 m)	
SAL power cord	8 ft 2 in. (2.5 m)	Various power plug options are available