

## **Laser Land Leveller Equipment Kit**

The **Laser Equipment Kit** is a complete solution designed to deliver **high-precision land leveling** for modern agriculture. Engineered with advanced laser technology, the kit ensures uniform field surfaces, improved water management, and enhanced crop yields.

This equipment kit consists of Laser Receiver, Laser Transmitter & Laser Control Panel, working together to achieve unmatched leveling accuracy and operational efficiency.

**Laser Transmitter** emits a stable, 360° rotating laser beam that defines a perfectly level reference plane over the entire working area.

**Laser Receiver** is mounted on the leveling bucket or scraper and detects the laser beam emitted by the transmitter. It detects the height of the laser beam and sends signals to the control box to adjust the hydraulic valve — ensuring the bucket maintains the correct cutting or filling position.

**Laser Control Box** processes signals from the receiver and automatically regulates the tractor's hydraulic system. It controls the movement of the leveling bucket by communicating with the hydraulic valve, ensuring precise leveling according to the reference plane.

Applications:

- Agricultural land leveling
- Construction sites
- Field preparation for irrigation or drainage systems

### **LD Laser Receiver**

- Reception Range : 360°
- Reception Length : 200mm
- Up/Down Indication LEDs
- Strong Dual Mounting
- Glass Protection
- Led Indication



## HD Laser Receiver

- Reception Range : 360°
- Reception Length : 200mm
- Up/Down Indication LEDs
- Strong Dual Mounting
- Glass Protection, Metal Covering
- Led Indication



## Control Box

### (CB 200) Laser Control Box

- Operating Voltage:- 10-18 Volt DC
- Updated Technology
- Ergonomic Design
- Heavy Mounting stand
- Time Display
- Connection error messages
- Metal Body



## Transmitter

### (RL – 600 Transmitter) Laser Level Transmitter

- Accuracy:  $\pm 10$  mm
- Self-levelling range:  $\pm 5^\circ$
- Rotational Speeds: 600 r.p.m
- Status Alerts – High & Low Battery
- Operating Temperature  $-20$  to  $50^\circ\text{C}$  ( $-4$  to  $122^\circ\text{F}$ )
- Size –  $104(\text{W}) \times 127(\text{D}) \times 37(\text{H})\text{mm}$
- Weight (Dry Battery Type): 2.3 kg (5.1 lbs with dry cell batteries)
- Weight (Rechargeable Battery Type): 2.5 kg (5.5 lbs with BT-79Q)
- Dust and water Resistance: IP66
- Operating Range – up to 1000 m



### RL-800 Transmitter

- Operating Range – 600m
- Rotation Speed – 600rpm
- Power – 12 V DC Battery
- IP class – IP66
- IP66 Resistant – Water and Dust
- Diode – Red
- Laser Wavelength – 635 nm
- Levelling method – Auto Levelling
- Accuracy -  $\pm 0.075\text{mm/m}$
- Output Lines – H-V
- Auto-Levelling Range -  $\pm 5^\circ$
- Weight – 2.4 kg
- Size – 219x160x202mm



### RL-700 Transmitter

- Operating Temperature -20 to 50°C (-4 to 122°F)
- Accuracy:  $\pm 10\text{ mm}$
- Self-levelling range:  $\pm 5^\circ$
- Rotational Speeds: 600 r.p.m
- Status Alerts – High & Low Battery
- Dust and water Resistance: IP66
- Operating Range – upto 1000 m
- Weight (Dry Battery Type): 2.3 kg (5.1 lbs with dry cell batteries)
- Size – 172(W) x 211(D) x 205(H) mm

