A Total Station consists of a telescope, a computer, and a reflector. They also have a built-in robotic controller, which allows the instrument to be controlled remotely from a data collector. Some total stations have the capability to connect to external devices such as GPS receivers, which allows for the integration of total station data with GPS data, providing a more accurate and detailed survey. The telescope is used to aim at a target, and the EDM measures the distance to the target by sending out a laser beam and measuring the time it takes for the beam to be reflected back. What is a Total Station The telescope also has a built-in electronic theodolite that measures the horizontal and vertical angles to the target. Another example is the 3D total stations, which are able to measure angles and distances in . three dimensions, providing users with a more complete picture of the area being surveyed