



Satellite Communications System

Model CES 230

The **CES SATELLITE SYSTEM CES 230** is composed of three components, a **Transmitter Station**, a **Receiver Station**, and the **Satellite Station**. This system is used to demonstrate the concept of Telecommunication Systems. The transmitter sends a signal to the Satellite which is amplified and transmitted back to the receiving station. The signal is transmitted by varying the intensity of a light beam. An experiment manual is included in the package.

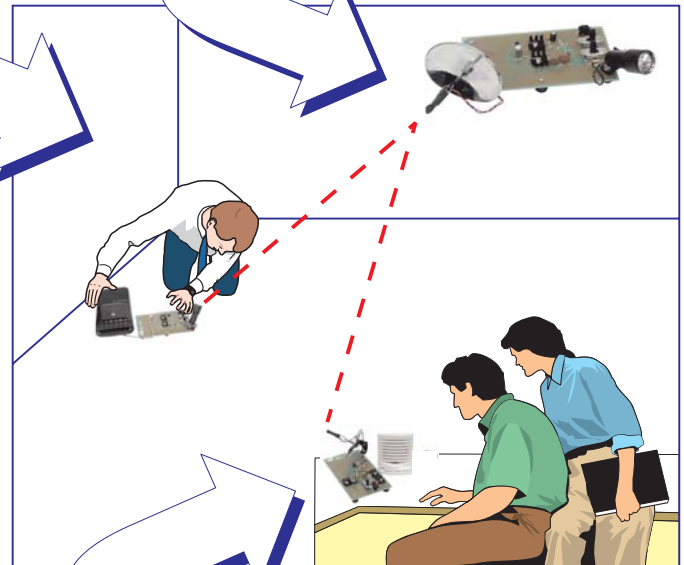
SATELLITE STATION

The CES Satellite Station consists of a flashlight, phototransistor and receiving antenna dish, and electronic circuitry. The light received by the phototransistor varies the circuit voltage and is used to increase the input voltage to a level which is suitable to modulate the flashlight beam. The students will build their own satellite housing.



TRANSMITTER STATION

The CES Transmitter Station consists of a flashlight mounted on a printed circuit board with several switches and a cassette recorder. When the unit is plugged into an AC outlet and power is turned ON, the flashlight will glow with a modulating intensity dependent on the Audio signals.



RECEIVER STATION

The CES Receiver Station consists of a satellite receiving dish and phototransistor, loudspeaker, and an audio amplifier on another printed circuit card. To receive a signal, the satellite dish must be pointed towards the light source on the satellite. When the receiver is properly aligned, the audio signal transmitted will be reproduced and heard over the loudspeaker.



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