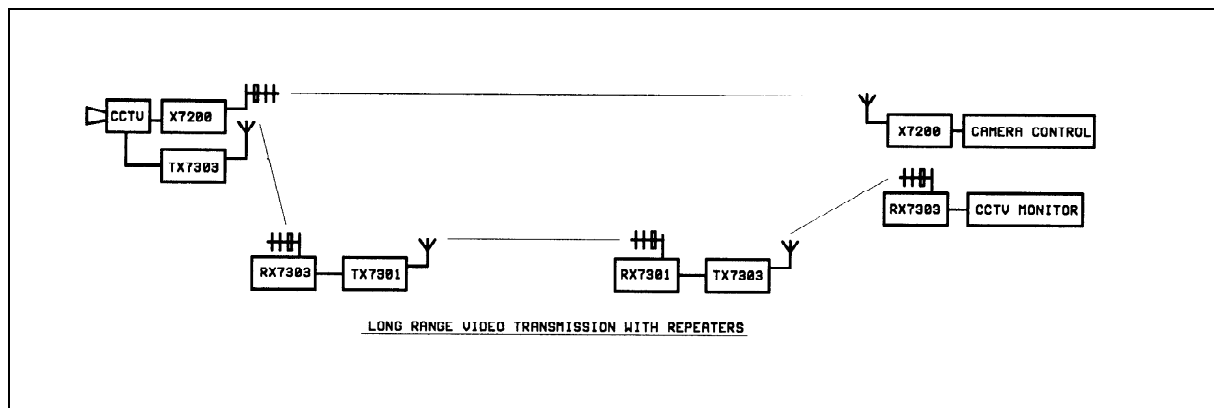


Overview

A CCTV surveillance camera has to be installed 3.2 km away from a city centre control point. There is no direct line of sight between the two points. Therefore, a number of video links have to be configured as a repeater chain.



System Specification

A TX7303 Video Transmitter set at 2.4GHz is used for the first part of the link which is 500 metres along a street. The video output from the RX7303 Receiver is connected to the input of a TX7301 Video Transmitter with a RF frequency of 1.394GHz which forms the second stage of the link over 2 km of open country to the top of a small incline. The video output from the RX7301 Receiver is connected to the input of another TX7303 Video Transmitter set at 2.8GHz. This transmits the signal from the top of the incline to the control room 700 metres away. The RX7303 Receiver of the final leg of the chain is located at the control room and is connected to a CCTV monitor.

All of the transmitters are set on different RF frequencies as far away as possible from each other so as not to cause interference. All the receivers have high gain antenna for the same reason.

The camera control is achieved by a direct serial link from the control. This link uses a RF frequency of 458.550MHz at half a Watt of RF Power. Because this frequency is 3 times lower than 1.394 GHz it has six times the range therefore repeaters are not necessary.

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