

# BRINGING THE WORLD CLOSER

Instant Communication—Regardless of Distance, Time and Weather



## TCS-9200 Transportable Communication System

### TCS-lite(TCS-9200) Transportable Communications System

When communications are critical and the environment inhospitable, political leaders, news agencies, businessmen, governments, relief and emergency medical teams look to the one-suitcase TCS-lite multipurpose communications system.

The revolutionary TCS-lite provides all the communications features of its two and three suitcase competitors with a wide spectrum of peripheral equipment to allow the selection of the right computer, facsimile machine, telex or freeze frame video equipment to meet your requirements.

The TCS-lite can be set up in seconds in four easy steps:

- ◆Open the suitcase

- ◆Pop open the umbrella antenna and connect with a single cable
- ◆Plug into any power source
- ◆Place a call

The TCS-lite withstands harsh environments, operates in severe temperatures ( $-35^{\circ}\text{C}$  to  $+65^{\circ}\text{C}$ ), and resists water.

### IMMARSAT Global Coverage

The International Maritime Satellite Organization (INMARSAT), financed by the signatories of 65 member countries, operates a system of satellites in geostationary orbit over the Atlantic, Pacific and Indian oceans providing complete sea, land and air worldwide coverage that permits the TCS-lite to be operated any time and any place. There are 22 INMARSAT coastal earth stations operated by the signatories/PTT's of various countries that provide multiple, cost effective access to the international telephone network.

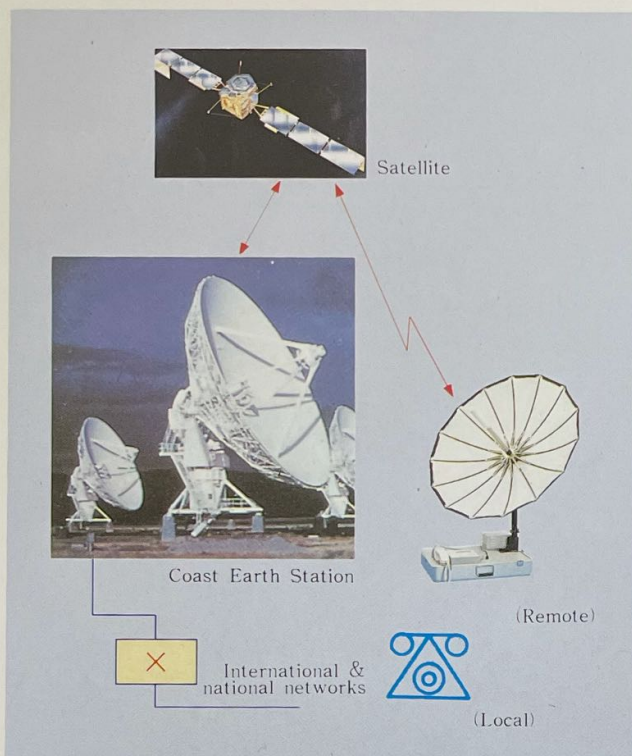


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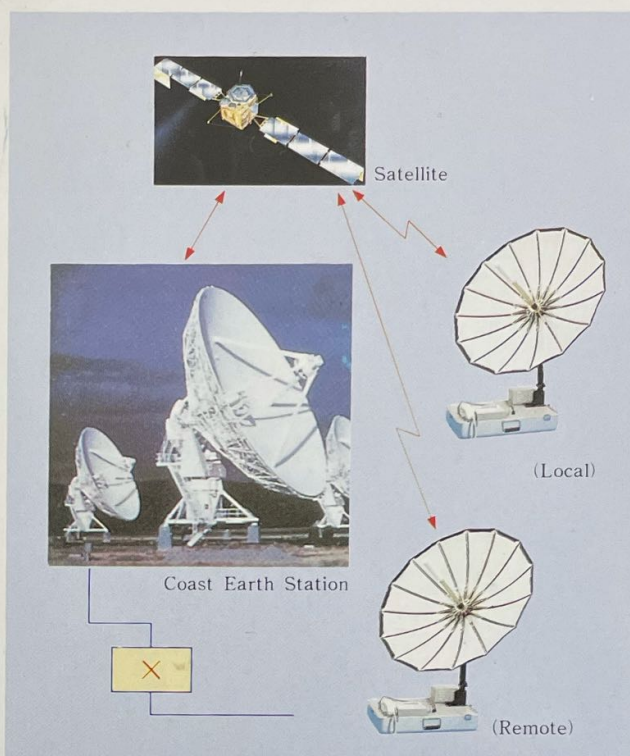


## Actual Examples of Communication Links

Terminal to Home/Office Link:  
Terminal ↔ Satellite ↔ CES ↔ Home ↔ Office



Terminal to Terminal Link:  
Terminal ↔ Satellite ↔ CES ↔ Terminal



## Technical Specifications

### Suitcase

Size	75 x 53.5 x 28cm(29.5 x 21 x 11 inches)
Weight	33.2kg(73 pounds)
Terminal Control Unit	22.25 x 31.75 x 7.6cm(8.75 x 12.5 x 3 inches)
Weight	2kg(4.4 pounds)

### Antenna

Size, Diameter	1.2m(47.25 inches)
Weight	3kg(6.6 pounds)
Dish Gain	23.5 dBic

<b>Power Requirements</b>	150-318VDC, 90-240VAC, Single Phase, 40-440Hz, 140 Watts Transmit, 80 Watts Idle
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### Environmental

Operating Temperature	-35°C to + 65°C
Relative Humidity	95% maximum at 40°C
Precipitation	10cm/hour maximum
Vibration	MIL STD 810 - Transportable Communications

### General

Transmit Frequency Range	1636.5 to 1645.0 MHz (1.6365 to 1.6450 GHz)
Receive Frequency Range	1535.0 to 1543.5 MHz (1.5350 to 1.5435 GHz)
Gain-to-Noise Temperature Ratio(G/T)	Better than -2 dB/K

### Voice Channel

Modulation	Frequency modulation (FM)
Band	300 to 3000 HZ
Carrier EIRP	36dBW, +1, -2 dB
Harmonic Output EIRP	-23 dBW maximum, any frequency up to 18 GHz



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