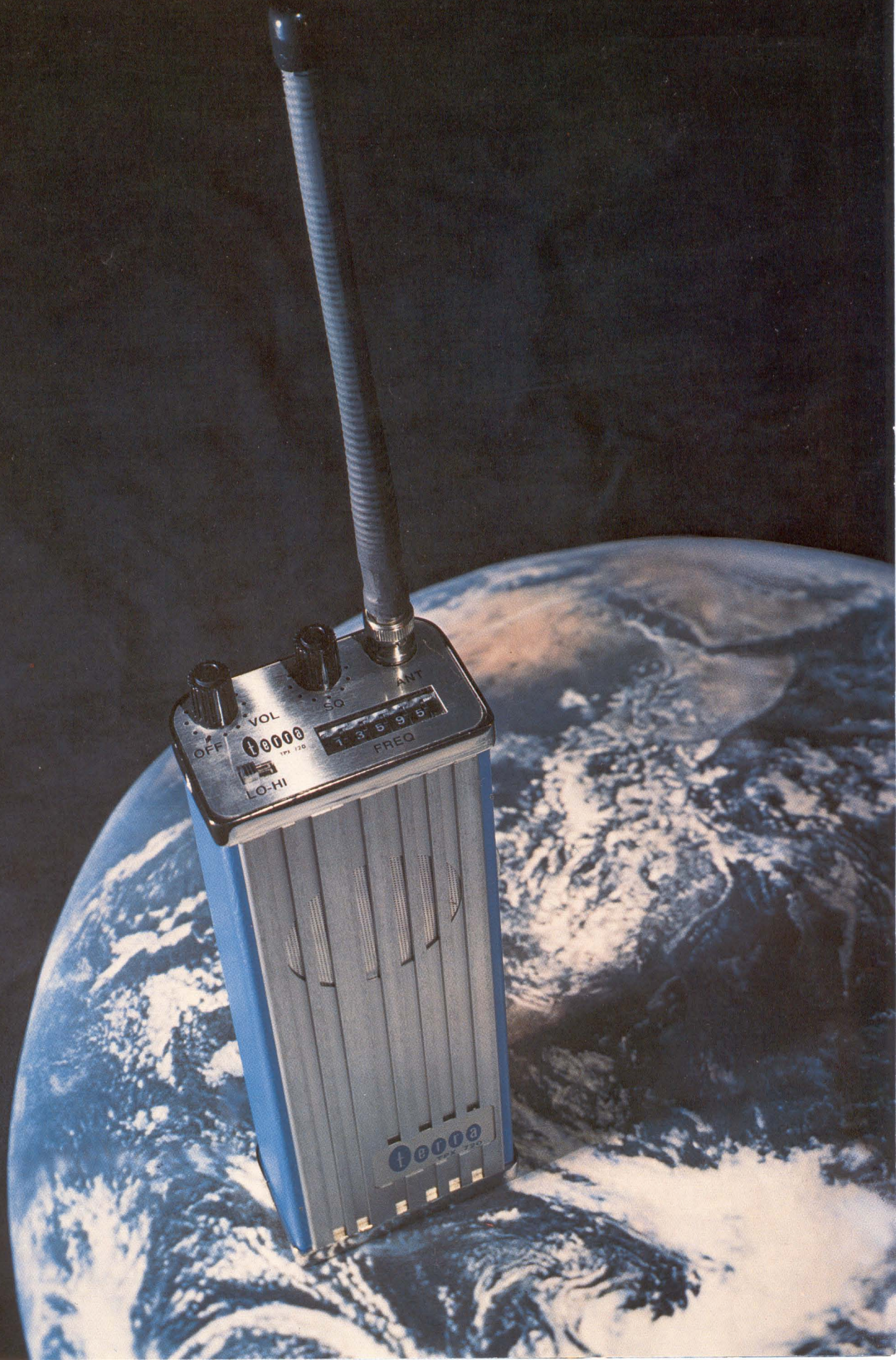


Terra's TPX 720 means the WORLD to you



TERRA'S TPX 720...the ultimate in aviation communications

.... Your KEY to airports all over the WORLD

TPX 720 WHO NEEDS IT?

TERRA'S TPX 720 is a powerful, practical aviation radio that has been scientifically engineered and field tested to give you more options than you ever dreamed of . . . at a price you can't beat. No matter what you fly, this incredible piece of space age avionics will enhance your experiences aloft. It has a thousand uses for everyone from lineboys to airline captains to airport managers. It's great as a back-up in factory-built singles or twins (cheap insurance), and offers a new mobility to antique or classic owners faced with no electrical system or obsolete equipment. Homebuilders don't need to worry about finding room in small panels and airshow directors can keep in touch with everyone. Aerobatic pilots can use the 720 for a running critique of their maneuvers from the ground; glider pilots and balloonists can drift comfortably through control zones. The 720's a must for industrial helicopters, pipeline surveillance, search and rescue, police work, forest fires, etc.

TPX 720 TOP PERFORMANCE THROUGH ADVANCED CIRCUIT ENGINEERING

Internal circuits used in the TPX 720 transceiver are a combination of high quality components, sophisticated design and new electronics technology. The receiver is a varactor tuned throughout the aircraft NAV-COMM band of 108.000 — 135.975 MHz. Navigation frequencies can be tuned for flight service information, VOR ATIS and weather reports. All frequencies from 118 to 135.975 are available for communications.

The receiver is a double conversion superhetrodyne design utilizing crystal monolithic filters to achieve receiver selectivity and alleviate unwanted spurious and image responses. As an added feature, detectors and squelch circuits incorporate integrated circuits in a manner especially suited to minimize and eliminate noise caused by spark plug ignition.

Audio amplifiers drive the speaker which serves as a microphone during transmission. The transmitter transistors are conservatively rated at 2.5 watts carrier power (8 watts PEP) at the antenna across 50 ohms. Selection of any receive or transmit frequency is performed by a digital frequency synthesizer utilizing low power CMOS integrated circuits which prolong battery life.

All aluminum construction is used for the housing of the TPX 720 for high impact strength, and the entire radio is manufactured in the U.S.A.



TPX 720 OPERATION

TERRA'S TPX 720 is a self-contained portable hand-held transceiver that comes ready for use with a flexible antenna, rechargeable Ni Cad batteries, AC battery charger and operator's manual. Any frequency in the aviation band can be selected by turning a miniature digital thumbwheel switch conveniently located on the top panel. If desired, standard microphones or headsets can be plugged into the bottom of the case.



OFF

VOL

SQ

ANT

terra

TPX 720

1 3 5 9 5

FREQ

LO-HI

terra

TPX 720

Depth
FEET
0-650
650-9940
9943-16,400
16,400-22,960
Over 22,960
Points of Interest
Ruins
Depths in Feet
Heights in Feet



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ALBUQUERQUE, NEW MEXICO 87107
505-884-2321

TPX 720

SPECIFICATIONS

GENERAL

| | |
|---------------------------------|--|
| No. of channels | |
| Communication | 720 |
| VOR, Receiver Only | 200 |
| Frequency Range | |
| Communication, 25 KHz | 118.000—135.975 |
| VOR Receiver, 50 KHz | 108.00—117.95 |
| Battery Power Supply | 10 "AA" Ni Cad Batteries |
| Battery Life On Each Charge | |
| Receive Only | 6 Hours Approx. |
| Intermittent Transmit 10% | 4—6 Hours Approx. |
| Heavy Transmit 30% | 2—4 Hours Approx. |
| Battery Charge Time | 12—18 Hours |
| Temperature | |
| Operating | -20° C to +50° C |
| Storage | -40° C to +80° C |
| Weight | 2.1 lbs. |
| Size .. | 3.27" Wide x 1.9" Deep x 9.5" High, Antenna Length 9.25" |

RECEIVER

| | |
|------------------------------------|---|
| Receiver Sensitivity | Less Than 1uV for 6 db (S+N)/N 118 through 136 MHz; 108 through 117.95 MHz Somewhat Greater |
| Selectivity | 25 KHz Bandwidth 60 db at \pm 20 KHz |
| Spurious and Image Rejection | Greater than 60 db |
| Audio Output | |
| Speaker Output | .5 Watt into 8 Ohms |
| Headphone Output | 25 MW into 600 Ohms |
| Audio Input | Standard Microphone or Speaker/Microphone |
| Squelch Sensitivity | Adjustable Carrier AGC Type |

TRANSMITTER

| | |
|------------------------------|---|
| Power Output | |
| HI | 2.5 Watts Nominal Carrier (8 Watts PEP) |
| LO | .5 Watts Carrier (2 Watts PEP) |
| Frequency Stability | .002% |
| Spurious and Harmonics | Greater than 50 db below Carrier |
| Modulation | |
| Type | 6A3 |
| Percent | 80% Min |
| Antenna Impedance | 50 Ohms |