

# CUBIC'S ALL BAND ASTRO-103



**A new name, a new look, and a new standard  
of performance in ham radio!**

(and you don't have to be a computer expert to use it!)

**ALL BANDS INSTALLED  
AND OPERATING!**  
160 thru 10  
including WARC bands

**DUAL**  
ultra stable  
PTO's

**Fast**  
break-in  
(QSK)

**RTTY**  
VOX

**Jack**  
for separate  
receive  
antenna

**Fully variable**  
AGC decay

**Dual 8-pole filters.**  
1.4:1 shape factor  
-6 to -100dB

**True Passband**  
Tuning with  
width and  
position  
indicators

**Built-in**  
VSWR meter

**CW output**  
pulse shaping  
— hard or soft

**Sophisticated**  
Noise Blanker

**Speech**  
Processor

**Exceptional Dynamics**  
Noise Floor -132dBm  
3rd order intercept +15dBm

**RF/IF Gain**  
Controls

**Optional CW**  
Narrow Crystal  
Filter



## ASTRO-103 — The Professional Ham Rig.

The Cubic ASTRO-103 expands on the highly acclaimed ASTRO-102BXA with the addition of the most asked for features — RTTY, an input connector for a separate receive antenna, and of course, ALL BAND coverage from 160 through 10 meters, including the new bands at 10, 18, and 24.5 MHz. All bands are operating now, nothing to buy later, and of course WWV is covered.

With the optional 400Hz crystal filter installed, which cascades with one of the 8-pole I.F. filters and can be moved through the passband, along with QSK provisions, the ASTRO-103 is the CW operator's dream!

Performance under high cross mod conditions found in today's crowded bands is second to none. With dual independent high stability PTO's for split band DX and all its other features, the ASTRO-103 is the result of American Technology and American Quality combined to bring the best to the American Amateur.

See your dealer for a demonstration —  
you won't leave the store without one!

## CUBIC — Success Built on Excellence

Cubic Corporation with over 3,500 employees world-wide, including more than 1200 scientists, engineers and technicians, has more than one million square feet under roof.

Established in 1951 the company has grown and expanded in high technology fields, including computer based automatic fare collection systems, electronic countermeasures, supersonic pilot training and other defense and space systems, electronic positioning devices and, of course, communications. New Cubic Amateur products reflect this heritage of excellence and is your assurance of the strength and resources to support your purchase in the years to come.



ASTRO-150A

Another member of the ASTRO family, the ASTRO-150, has been highly acclaimed as the ideal Mobile/Base station. With microprocessor control, VRS tuning and microphone scanning, the ASTRO-150A led the way for competitive radios now appearing on the market.



ASTRO-102BXA

The ASTRO-102BXA provides basically all the fine performance of the ASTRO-103 at a lower cost, but less the WARC bands, which of course may be added later if desired.

**CUBIC**  
COMMUNICATIONS, INC.

305 Airport Road, Oceanside, CA 92054  
(714) 757-7525

# Step Up To The Cubic Communications "ASTRO 103"



## Dual VFOs Give You Two Radios for the Price of One!

Competitively priced, quality American design and construction by Cubic . . . a leader for 3 decades in defense and commercial electronics

### Features:

All band coverage including WWV and the new WARC bands

DUAL VFO's each provide complete band coverage. (You are not limited to a single memorized frequency)

235 Watts input, SSB and CW on all frequencies

IF Passband Tuning not to be confused with ineffective "IF shift"

Utilizes an 8 pole filter which is continuously variable for either high pass or low pass.

CW Crystal Filter (optional), 400Hz 6-pole

Unique Visual Display of Passband

External Receive Antenna Jack allows separate transmit and receive antennas

Tunable Notch Filter when combined with passband tuning, provides the ultimate in removing interference

Full or Semi CW Break-In

Selectable hard/soft keying makes the difference in pile up  
Continuously Variable AGC lets you hear the weak signal which would normally be masked by strong adjacent channel interference

Logarithmic Speech Processor

AF, RF and IF Gain Controls to provide an infinite selection of receiver dynamics

4 Function Meter reads "S" units in receive, and selects forward

power (calibrated in watts PEP), reflected power, or ALC level in transmit

Military Quality PC Boards of double sided, plated through glass epoxy material

Modular Construction with PC boards and assemblies interconnected by plug-in strip line and coaxial connectors. Chassis and cabinet are of rugged steel construction

Call or write for a Free Brochure



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A member of the Cubic Corporation family of companies

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### Complete System 103



PSU-6A  
Power Supply/Speaker

ASTRO 103  
Transceiver

1500Z-A  
1500 Watt Linear  
Amplifier

ST-2B  
2xW Antenna Tuner