

# Searching for satellites and getting Stars by the Bucketful.

The Universe.

Still the most fascinating and least explored mystery we know. A company called TRW is going to help put a few more pieces of this intergalactic puzzle in place with a new deep space surveillance system for the Air Force.

**K**eeping An Eye  
On The Traffic  
In Space.

This new system's first job is to keep track of 20 years of hardware in deep space and traffic still to come. Using video cameras and 15 computer-controlled telescopes around the world, the system will be able to find and track an object no bigger than a soccer ball—22,000 miles out.

Every night, TV cameras will record what the telescopes see. Then

computers, which drive and control the system, will sort out the stars from the satellites. The satellite images go into a readout system, giving operators at computer display terminals a clear picture of space traffic.

**A** Starbucket  
For Astronomers.

To astronomers, the prospect of access to recorded information about millions of stars is almost a miracle.

Until now, they had to do their star searching by digging through mind-boggling collections of photographic plates—all taken by different people, under different conditions and with different telescopes. Now they can dip into this "starbucket," and get pictures

of the skies taken from all over earth—using identical telescopes to see the stars, identical TV cameras to photograph them, and identical computers to record their intensity and position.

All of which will help us to find out a lot more, a lot faster, about deep space mysteries. *Tomorrow is taking shape at*

**A COMPANY CALLED  
TRW**

