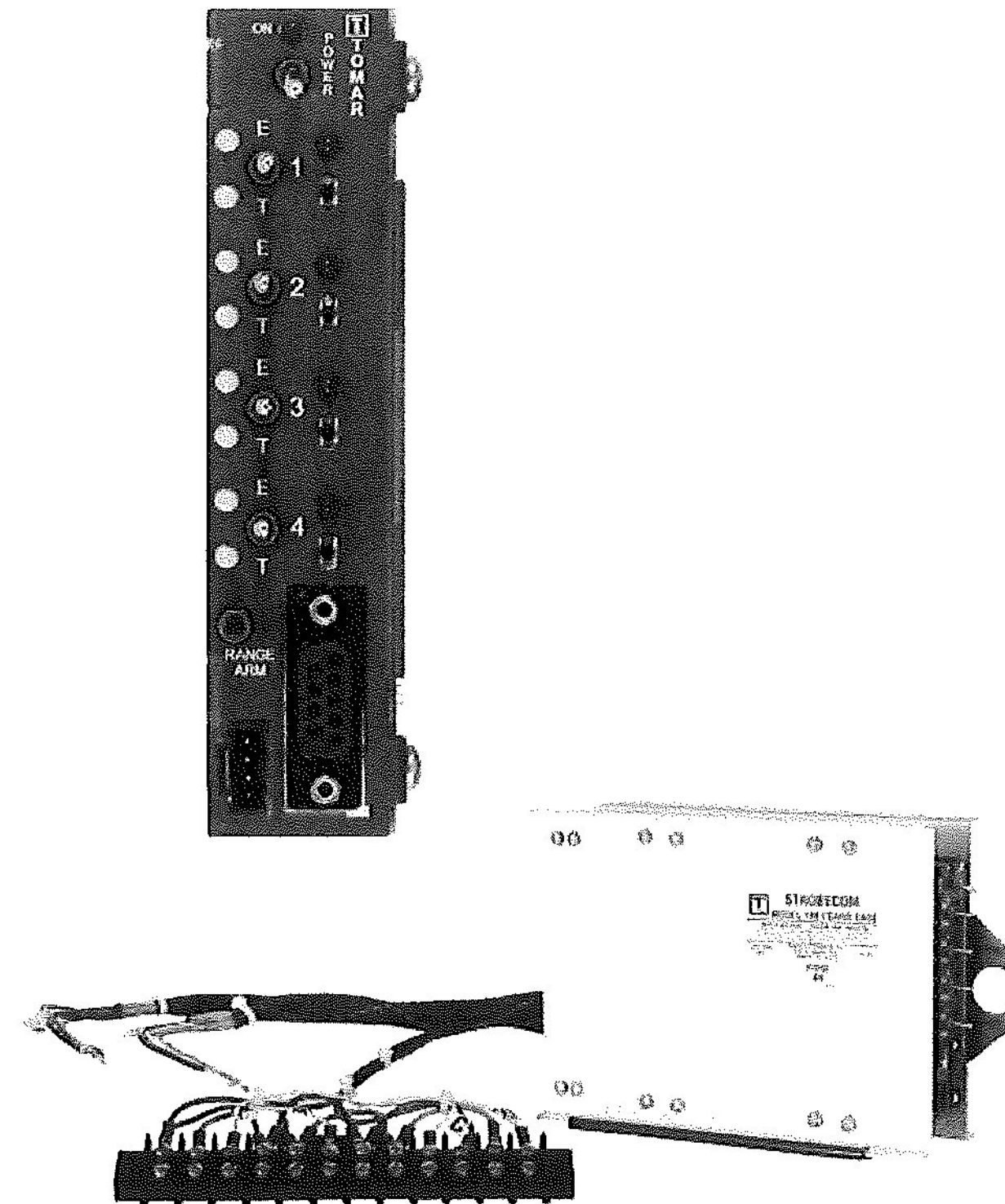




## 2140 OSP Card and Card Cage

### STROBECOM II



The model 2140 Optical Signal Processor (OSP) is the most advanced of the three 2000 Series OSP's offered by TOMAR. Installed inside the traffic cabinet, the 2140 provides power for 209X Optical Detectors, receives and decodes signals from the detectors, logs preemption and priority control activity, communicates with other traffic control devices, and optically isolates the preemption channels.

The 2140 is delivered default programmed to respond on a first-come, first-served basis to optical signals from vehicles within two signal bands. Emergency band signals are typically emitted by emergency vehicles to effect a preemption of normal traffic control timing and are given the highest priority to allow rapid emergency response with enhanced safety. Transit band signals are generally emitted by transit or other non-emergency municipal vehicles to effect a priority change for the vehicle's approach direction without necessarily interrupting traffic control timing. Up to 65,000 vehicles in each signal band can be individually identified and up to 15,000 events can be logged in non-volatile EEPROM memory.

Using a simple Windows-based configuration program, the user can define up to 16 additional classes within each signal band with different priorities, detection ranges, and choices of actions, from simple vehicle logging to full traffic preemption.

Equipped with a serial port and the ability to classify and announce the presence of multiple vehicles in real-time, the 2140 makes an excellent intelligent vehicle sensor for ITS applications.

Tri-color LED's and test switches on the front panel of the 2140 provide output status indication and diagnostic feedback to assist in troubleshooting.

The 2140 OSP is compatible with NEMA TS-1, TS-2, and CA/NY 170, and 2070 controllers and meets all NEMA and CalTrans environmental requirements. The 2140 plugs directly into a 170 input file without any additional hardware and does not use the internal 24VDC cabinet power. For NEMA cabinets without prewired preemption slots, the TOMAR model 1881 rack provides the necessary hardware and harnessing to allow simple connection to detector outputs and controller inputs.

#### TRUE 10 Year Warranty!

Covers the 2140 and all STROBECOM II components. Unlike other manufacturers, TOMAR's ten year warranty has NO fees or charges for warranty repairs after five years.

#### NOTICE:

The sale of these items are restricted to state and local governments and to authorized distributors only.