

Instruction Manual for  
**AT-L1 and AT-L5 TRANSMITTERS**  
For Law Enforcement or Medical Use



**AT-L1 Standard Power \$100.00**

- 1 Milliwatt Output
- 4 week battery life
- Up to 1 Mile Range

**AT-L5 Medium Power \$100.00**

- 5 Milliwatt Output
- 2 week battery life
- Up to 3 Mile Range

**These transmitters are compatible  
with Communications Specialists'  
R-400A and R-1000 Receivers.**



**COMMUNICATIONS SPECIALISTS, INC.**  
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## Features

- Size : .80" diameter, .30" high
- Weight: 5.4 grams including the battery
- Powered by a single CR1632 battery
- Supplied with 20" antenna
- 25ms wide CW pulses @50 beats/minute
- PLL design with .5 PPM TCXO
- Full 1 year warranty

## Introduction

The AT-L1, L5 transmitters can be used as a homing device to locate persons or stolen goods under authority or agreement with a law enforcement agency (federal, state, or local) having jurisdiction in the area where it is used. It may also be purchased and used for health care related communication for the ill. The transmitter will not drift in frequency under any temperature extremes. This system can be used anywhere as it does not rely upon satellite technology (GPS) which requires a direct view to the satellites, and once purchased has no monthly fees of any kind.

## To Remove The Old Battery

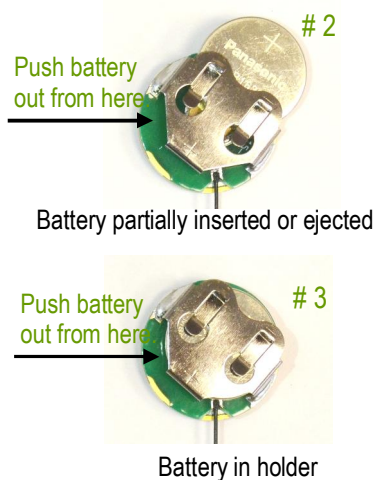
1. Insert small screwdriver in opening shown in #2 and #3 photos towards the rear of the battery compartment.
2. Push out battery with screwdriver.
3. Dispose of the battery properly.



## To Install A New Battery

1. Slide the CR1632 battery into battery holder as shown in photo #2. The (+) positive side of battery is facing up.
2. Note that if the battery is reversed, it will be shorted out and the transmitter will not operate. The transmitter will not be damaged.

A few seconds shorted out is OK, but do not leave the battery shorted out for longer periods as it will not recover, and will need to be replaced.



## SUGGESTED LPRS CHANNEL LIST

### *Frequency (MHz)*

216.010	216.180	216.350	216.520	216.690	216.860
216.020	216.190	216.360	216.530	216.700	216.870
216.030	216.200	216.370	216.540	216.710	216.880
216.040	216.210	216.380	216.550	216.720	216.890
216.050	216.220	216.390	216.560	216.730	216.900
216.060	216.230	216.400	216.570	216.740	216.910
216.070	216.240	216.410	216.580	216.750	216.920
216.080	216.250	216.420	216.590	216.760	216.930
216.090	216.260	216.430	216.600	216.770	216.940
216.100	216.270	216.440	216.610	216.780	216.950
216.110	216.280	216.450	216.620	216.790	216.960
216.120	216.290	216.460	216.630	216.800	216.970
216.130	216.300	216.470	216.640	216.810	216.980
216.140	216.310	216.480	216.650	216.820	216.990
216.150	216.320	216.490	216.660	216.830	
216.160	216.330	216.500	216.670	216.840	
216.170	216.340	216.510	216.680	216.850	

1. Avoid the red channels shown above if the ETS system operates in your area.
2. When ordering, start at 216.990 and work down the list to avoid interference from digital TV Channel 13. Try to keep a few frequencies unused between your choices.
3. Transmitters can be supplied at no additional cost on any frequency between 216-219.999 MHz in 1kHz steps. (Subject to proper licensing)

**The AT-L1, AT-L5 Transmitters are compatible with  
Communications Specialists' model R400A and R-1000 Receivers.  
Please visit [www.com-spec.com](http://www.com-spec.com) for more information on the products  
that we offer.**

## FCC COMPLIANCE NOTICE (PART 95)

The AT-L1, L5 transmitter is authorized by rule under the Low Power Radio Service (47 C.F.R. Part 95) and must not cause harmful interference to TV reception or United States Navy SPASUR installations. You do not need an FCC license to operate this transmitter. This transmitter may only be used to provide: auditory assistance to persons with disabilities, persons who require language translation, or persons in educational settings; health care services for the ill; **law enforcement tracking services under agreement with a law enforcement agency**; or automated maritime telecommunications system (AMTS) network control communications. Two-way voice communications and all other types of uses not mentioned above are expressly prohibited.

CAUTION: Any changes or modifications to this device could void the user's authority to operate the equipment.

CAUTION: This device may not interfere with TV reception or Federal Government radar.

## CHANNEL USE POLICY

The channels authorized to LPRS systems by the FCC rules are available on a shared basis only and will not be assigned for the exclusive use of any entity.

Those using LPRS transmitters must cooperate in the selection and use of channels in order to reduce interference and make the most effective use of the authorized facilities. Channels must be selected in an effort to avoid interference to other LPRS transmissions.

## USES

The AT-L1, L5 may also be purchased and used for health care related communication for the ill.

FCC Rules Part 95 Subpart G

## 95.1009 PERMISSIBLE COMMUNICATIONS

- (b) Health care related communication for the ill.
- (c) Law enforcement tracking signal (for homing or interrogation) including the tracking of persons or stolen goods under authority or agreement with a law enforcement agency (federal, state, or local) having jurisdiction in the area where the transmitters are placed.

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