

**PR-75a**

## ***AutoSmart-Tuning™ Assistive Listening Receiver***

- *Unique self tuning*
- *100 hours battery life*
- *Stereo or mono headsets*
- *Simple to use, reliable, and affordable*
- *Rugged and durable design*



The PR-75a personal receiver is the newest generation of COMTEK's user-friendly, digitally synthesized monitor receivers designed for high fidelity auditory assistance and other personal communication applications. Ideal where multiple transmitters in the 72-76 MHz band are operating independently in the same building, the PR-75a AutoSmart-Tuning™ makes it possible for the listener to use the same receiver to attend multiple programs at church services, school classes, museum exhibits, theaters, and stadiums, etc.

This unique receiver will automatically turn itself on and initiate its AutoSmart-Tuning™ when the earphone is plugged in. The PR-75a's AutoSmart-Tuning™ process selects the closest appropriate transmitter in its vicinity and then sets itself to this channel. This also establishes the receiver's compatible frequency group when multiple channel operation is in use in the same area. A convenient one-button tuning control will cause the receiver to seek only channels belonging to its frequency group, eliminating the possibility of tuning to an incorrect channel.

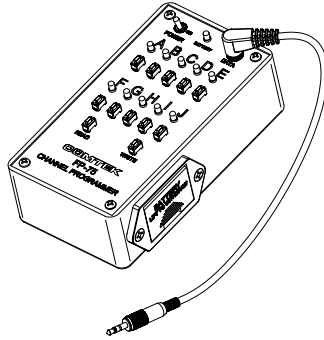
For more information on the PR-75a AutoSmart-Tuning™ receiver or COMTEK's comprehensive line of high quality wireless sound products, give us a call. Our applications engineers will be happy to assist you!

**COMTEK®**  
*First Quality in Wireless Sound*

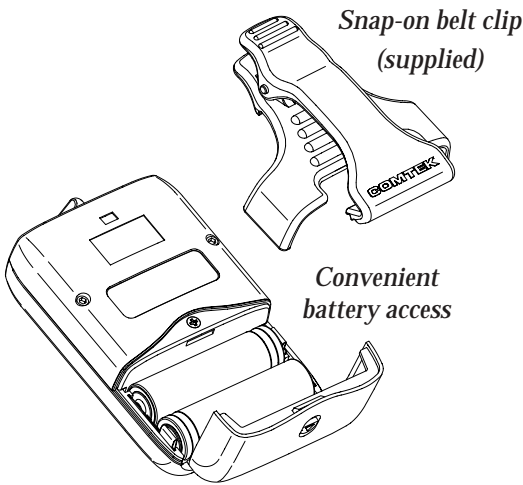
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# PR-75a Receiver

For added convenience, the PR-75a receiver can be programmed with the FP-75 channel programmer to receive either any single channel from A-J or the coordinated group frequencies within A-J for simultaneous operation. The group frequencies can then be manually accessed in sequence for "roundabout" type channel selection with the AutoSmart-Tuning™ button (AST)

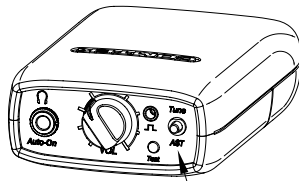


FP-75 Channel programmer



Snap-on belt clip (supplied)

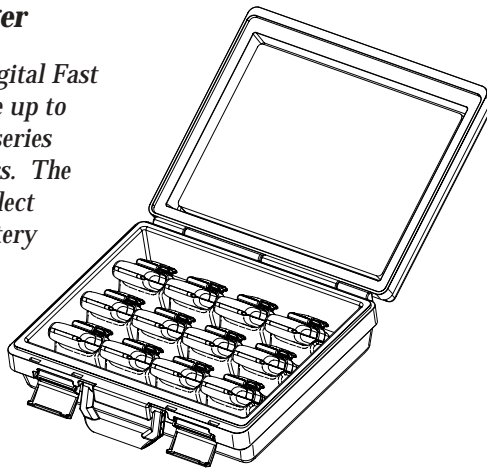
Convenient battery access



AutoSmart-Tuning™ button

## NBC 9-3-12 Digital Fast Charger

The optional NBC 9-3-12 Digital Fast Charger will charge and store up to twelve COMTEK 216 or 75 series receivers and / or transmitters. The charger will automatically select 3 volt or 9 volt (Ni-MH) battery charging mode. A single LED indicator on each charger will detect: Charge cycle complete, trickle charging, and malfunction diagnostics.



## PR-75a Specifications

### Audio Output:

Headset output 200 mW average  
(Impedance as low as 16 ohm)

### Connectors:

- Stereo/mono 3.5 mm audio output connector and charging input.
- 2.5 mm stereo connector for I/O data programming.

### Indicators:

- Multi-function LED
- a. Channel-seeking
  - b. Received signal
  - c. No signal
  - d. Low battery

### Controls:

- Volume control (50 dB range)
- Automatic turn-on when headphone is plugged in and turn-off when headphone is removed.
- One-button tuning control (AST)

### Audio Frequency Response:

100 Hz to 10 kHz  $\pm 3$  dB

### Harmonic Distortion:

Less than 1% (1kHz tone 30 kHz deviation)

### Operating Radio Frequency:

- 72 to 76 MHz
- Frequency synthesized 10-channel, Auto-Select Tuning (AST)

### Frequency Stability:

0.002% frequency synthesized crystal controlled

### RF Sensitivity:

2  $\mu$ V for 38 dB of quieting (average)

### Ultimate Quieting:

Better than 75 dB related to output

### Deviation Acceptance:

Up to  $\pm 75$  kHz

### Antenna:

Integral with headphone cable (no external antenna)

### Battery Life:

100 hours with alkaline batteries

### Power Requirements:

2 AA 1.5 volt alkaline batteries or rechargeable Ni-MH (NH 1600)

### FCC Compliance:

Complies with Part 15 of FCC rules

### Dimensions:

1 1/16" x 2 1/2" x 3 1/4"  
(27 mm x 57 mm x 83 mm)

NOTE: Specifications subject to change without notice

# COMTEK®