

TA-1/216 MHz Digitally Synthesized

Desktop Sound Field System

- *Multichannel Compatible*
- *Versatile / Easy to Use*
- *Small and Lightweight*
- *High SPL Audio Output*
- *Rugged Construction*



The TA-1 desktop sound field system increases the voice level of a teacher over distracting background noise and overcomes the listening challenge of distance between teacher and student. This allows hearing aids to be used more effectively without the use of direct audio input cords or neck-loops. It also enhances intelligibility for students with cochlear implants, provides greater comprehension for students with ADD/ADHD, and offers amplification for students not using hearing aids who have a mild hearing loss. Additionally, the TA-1 helps prevent teacher voice strain and fatigue.

The TA-1 desktop sound field system combines the quality performance of the all-new AT-216 digitally synthesized personal FM system with the convenient, compact ChatPack speaker offering full fidelity audio reception from as far away as 200 ft.

COMTEK®

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TA-1/216 MHz System Description

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Complete
TA-1 System

The TA-1 system includes one ChatPack desktop speaker with rechargeable battery and battery charger plus COMTEK's new digitally synthesized PR-216 receiver, M-216 transmitter, HM-100 headset, ChatPack carrying pouch, and convenient system carrying case.

The PR-216 receiver can easily be removed and used as a personal FM receiver with earphones, neck-loop, or direct audio input cords for hearing aids or cochlear processors.



Technical Specifications

M-216 Transmitter & PR-216 Receiver

- Frequency Response:**
80 Hz to 10 kHz
- Harmonic Distortion:**
Less than 1% at 50% modulation
- Signal-to-Noise Ratio:**
Better than 90 dB A-weighted with narrow-band Hi-Fi companded Ch. 41-60
- Receiver Audio Output:**
4 volts RMS into 50 ohms
- Modulation System:**
FM adaptive deviation with channel selection
5 kHz standard Ch. 1-40
10 kHz companded Ch. 41-60
- Operating Radio Frequency:**
57 synthesized channels in the 216-217 MHz LPRS band
- System Operating Range:**
200 feet typical, 500 feet under favorable conditions
- Size and Weight (M-216 & PR-216):**
1 1/16" x 2 1/2" x 3 3/4"
(27 mm x 57 mm x 83 mm)
4 ounces (110 grams)
- Construction:**
Multiple interfaced glass-epoxy P.C. boards, shock-mounted for impact-resistant use in a thick wall Cycloy® enclosure
- F.C.C. Compliance:**
Complies with Part 95 and Part 15 of F.C.C. rules

NOTE: Specifications subject to change without notice

ChatPack Speaker

- Type:**
Single-amp full range power speaker
- Speaker:**
4 ohm 5.5 cm full range single cone
- Frequency Response:**
(With COMTEK 216 series wireless system)
100 Hz to 10 kHz
- Output Sound Pressure Level:**
90 dB SPL (1 m on axis)
- Output Power:**
5 W RMS (4 ohm load)
- Signal-to-Noise Ratio:**
70 dB (A-weighted)
- Distortion:**
2% at 1 W output
- Connectors:**
Top jack - 3.5 mm for electret type microphone (3 k ohm)
Back jack - 3.5 mm for AUX 10 k ohms input (Tip) DC phantom power (Ring)
Note: Only CB-3 interconnect cord must be used
Charger jack - 2 mm central pin (positive)
- Control:**
Volume control with ON/OFF switch
- Power Requirement:**
9 volt DC (6 x AA Ni-MH rechargeable)
- Dimensions:**
8" W x 3 1/4" H x 3 1/2" D (Speaker and receiver in P-101 carrying pouch)
- Weight:**
1.5 lbs (Speaker and receiver in P-101 carrying pouch)

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