



Pro Intercom LLC

Intercom for Sound, Lighting and Production Professionals

200 Series Communications Headsets



- ✓ Performance
- ✓ Durability
- ✓ Value
- ✓ Compatibility

Performance: Exceptionally high quality transducers provide wide smooth frequency response, reducing the onset of 'ear fatigue' for those who must spend many hours wearing headsets. Deep, comfortable ear cushions have excellent external noise exclusion characteristics, and are washable with ordinary dish washing detergent. At 7.35 oz. the SMH210, and at 8.75oz the DMH220, (shown above) are much lighter than their appearances suggest. The noise-canceling microphone is mounted on a flexible, steel reinforced boom which can be easily twisted into a comfortable position. The flexible headband is adjustable. The normal transducer configuration for use with Pro Intercom and compatible headset intercom systems are 400 earspeakers and a 200 dynamic microphone. Electret microphones and lower impedance earspeakers for other applications are also available, and combinations of these transducers make up the various models. For use with Pro Intercom and most headset communications systems the SMH210 and DMH220 are fitted with a 4-pin female XLR-type plug. For other applications many different plugs are available.

Durability: Because these headsets have only one moving part, and the microphone boom is flexible rather than hinged, a remarkable degree of durability is achieved. The light-weight cable consists of a copper shield around steel reinforced conductors, and is virtually unbreakable under normal circumstances. The assembly screws are hidden to prevent tampering. These headsets are easily field repairable. Pro Intercom maintains a full inventory of replacement parts at reasonable prices and provides fast turnaround on repairs.

Value: Low initial cost (compared to other professional communications headsets of equivalent quality), combines with long working life and low cost of repairs to offer outstanding value.

Technical specifications: (Subject to change without notice)

Dynamic Microphone: Uni-Directional 200 @1kHz

Freq. response: 40~15kHz

Electret Microphone: Noise cancelling 2.2k

Freq. response: 40~18kHz

Earspeakers: 400 @ 1kHz Freq. response: 40~14.4kHz

Sensitivity: 94dB Spl @ 1mW

Distortion: Less than 0.5%

Cable length: 59 in. (1.5 m.) Steel reinforced

Approx. weights: SMH210 7.35 oz, DMH220 8.75 oz.

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SMH310 and DMH320 Communications Headsets

- ✓ Performance
- ✓ Durability
- ✓ Value
- ✓ Compatibility

Performance: These light, comfortable headsets are equipped with high quality transducers for smooth response and pleasant listening. The soft, textured muffs are removable and washable. The mechanism for adjusting size allows for a wide range, and is both simple and sturdy. The microphone is mounted on a thin flexible gooseneck boom that also swivels at the ear cup and can be swung up out of the way. The microphone can be adjusted to be very close to the mouth for situations where quiet or discreteness are important. The thin, flexible cable does not tug on the headset and can be clasped out of the way with our optional clothing clip.

Durability: The SMH310 and DMH320 have a minimal number of moving parts. Each of the pivot points has been strengthened. The flexible gooseneck bends rather than breaks. The muff, along with its frame, pops off the ear cup for almost instant cleaning or replacement. Our always-generous repair policy applies to these modestly priced headsets as well.

Value: These headsets represent an outstanding value, costing considerably less than any other major brand of full-sized communications headset. When long working-life expectations and repair-ability are factored in, the value is even further enhanced.

Compatibility: The SMH310 and DMH320 are compatible with Clear-Com® as well as other, lesser-known, headset communications systems. The standard 4-pin female XLR-type connector is included, but we will gladly fit the appropriate plug for any other system at a reasonable cost.

Specifications: (Subject to change without notice)

Ear speaker impedance: 200 \pm 15%

Rated power input: 300 mW

Max. power input: 100 mW

Frequency response: 30~12kHz

T.H.D. @ S.O.P: >3%

S.P.L: 97dB \pm 3dB

Microphone: Dynamic, 0.825 in (21mm) 200

Mic. Boom: 0.177 in (4.5mm) diameter gooseneck tube

Cord: Straight, 6.56 ft. (2m)

Headband adjust: ABS click-type

Net weight:

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SMH710 Lightweight Communications Headset

- ✓ Performance
- ✓ Durability
- ✓ Value
- ✓ Compatibility

Performance: The SMH710 is a lightweight version of our long-time product, the SMH310. The construction, though smaller, is very similar. At 3.88 oz. (0.11kg) it is among the lightest headsets suitable for intercom that is available, and far more comfortable than the most commonly available lightweights. Because it has a dynamic microphone it is suitable for all intercom stations, old and new. The microphone arm is a flexible gooseneck and has a swivel mount, permitting a wide range of positioning. The headset comes with a foam microphone pop filter **The SMH710 is for left side use only.** The ear cushions, being smaller, sit on the ear rather than around it. They can be cleaned and can be easily and inexpensively replaced. The headband is adjustable and padded. On the ear speaker side the adjustment involves clicking the fitting up and down. For larger sizes the pad on the far side can be adjusted by removing a small screw and resetting the pad position.

Durability: The SMH710 has a minimal number of moving parts. Each of the pivot points has been strengthened. The flexible gooseneck bends rather than breaks. The muff peels off the ear cup for almost instant cleaning or replacement. Our always-generous repair policy applies to these modestly priced headsets as well.

Value: This headsets represent an outstanding value, costing considerably less than any other major brand of intercom-suitable lightweight communications headset. When long working-life expectations and repair-ability are factored in, the value is even further enhanced.

Compatibility: The SMH710 is compatible with Clear-Com[®] as well as other, lesser-known, headset communications systems. The standard 4-pin female XLR-type connector is included, but we will gladly fit the appropriate plug for any other system at a reasonable cost.

Specifications: (Subject to change without notice)

Ear speaker (40mm) impedance: 400 ± 15%

Rated power input: 300 mW

Max. Peak power input: 100 mW

Frequency response: 20~20kHz

T.H.D. @ S.O.P: < 3%

S.P.L: 106dB ± 4dB

Microphone: Dynamic, 0.825 in (19mm) 200

Mic. Boom: 0.177 in (4.5mm) diameter gooseneck tube

Cord: Straight, 6.56 ft. (2m)

Headband adjust: ABS click-type

Net weight: 3.88oz (0.11kg)

Freq. Response from digital audio analyser CLIO

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900 Series Communications Headsets



- ✓ Performance
- ✓ Durability
- ✓ Value
- ✓ Compatibility

Performance: Exceptionally high quality transducers provide wide smooth frequency response, reducing the onset of ear fatigue for those who must spend many hours wearing headsets. Deep, comfortable ear cushions have excellent external noise exclusion characteristics, and are washable with ordinary dish washing detergent. At 10.8oz (.306kg), including the cable and XLR, the SMH910 (shown above) is much lighter than its appearance suggests. Even the dual muff version, DMH920, weighs in at only 15.3oz (.435kg). The noise-canceling microphone is mounted on a flexible, steel reinforced boom which can be bent for optimum positioning. The boom swings up out of the way when required and shuts the microphone off at the top of the swing. The boom can be reversed for use on the right side. The flexible headband is adjustable. The normal transducer configuration for use with **Pro Intercom** and compatible headset intercom systems is 400Ω earspeaker(s) and a 200Ω dynamic microphone. Electret microphones and both 50 and 100Ω earspeakers are also available for various other applications. The standard version comes with a 4-pin female XLR-type plug but other configurations are available. The microphone in the standard version is wired unbalanced but it can easily be balanced for audio or broadcast applications.

Durability: All headsets are the most vulnerable to damage at the point where the boom connects with the ear cup. The ingenious way in which the boom swivels on the 900 series offers a whole new level of longevity. The internal switch, which mutes the microphone at the top of the boom's arc, is rated for millions of operations. The assembly screws are hidden to prevent tampering. These headsets are easily field repairable. **Pro Intercom** maintains a full inventory of replacement parts at reasonable prices and provides fast turnaround if repairs ever become necessary.

Value: These fully featured professional headsets are priced competitively with headsets offering lesser performance and greater fragility. These combine with long working life and low cost of repairs to offer outstanding value.

Compatibility: 900 series headsets are compatible with Clear-Com® and all other popular headset intercom systems, and are easily configured for other applications.

Technical Specifications: (Subject to change without notice)	Microphone:
Earspeakers: 400Ω dynamic 40~14.4kHz SPL: ≥94 dB	Dynamic, cardioid, 40-15,000Hz 100Ω (200Ω) balanced
Continuous power: 100mW	Front to back: >15dB Close talking sensitivity: -1mV(=3mV/Pa)
External noise isolation: ca. 18 dBA	Weight: Single: 7.76oz (220g) Dual: 15.3oz (435g)



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on air quality

DMH9000 Broadcast Quality Dual-Muff Headset

✓ **Performance**

✓ **Durability**

✓ **Value**

✓ **Compatibility**

Performance: The DMH9000, with its low visual profile, was specifically designed with broadcast and studio applications in mind. Special attention has been given to acoustical and electrical isolation of the microphone from the earspeakers to minimize the incidence of cross-talk. The symmetrical hypercardioid studio quality condenser microphone was expressly developed for near-field use and combines excellent noise rejecting abilities with a wide, smooth frequency response. The near-field characteristics of the microphone capsule provide good noise rejection without having it so close to the mouth as to obscure the wearers face. The optimal distance is 4 in. A new wind screen helps to eliminate wind and breath noise. The microphone is balanced and requires 'phantom power' 12~48V. The microphone boom can be positioned on the left or right side and swings up and out of the way past a series of detents. As the boom is raised a gold plated micro switch turns the microphone noiselessly off. The earspeakers have a specially contoured and wide bandwidth in combination with high sensitivity. Two types of ear cushions are available. For sports announcing, and similarly noisy applications, dual chamber foam-filled cushions provide optimum noise exclusion. In studio or other musical applications the alternate style of ear cushions are designed to optimize frequency response (See specifications†).

Durability: The DMH9000 continues the unrivaled durability of our 200 Series headsets. The earspeaker housings and microphone boom are constructed of an almost indestructible material that will not be damaged if dropped or stepped upon. The material is fully recyclable and can be cleansed with ordinary household detergents. Should repair ever be necessary the headset can be easily disassembled and reassembled. This is achieved without making the procedure obvious to a 'tamperer'.

Value: Headsets of this quality are not inexpensive, but we invite you to compare value with any other headset in this category. When you plug in the durability factor and our immediate and no-quibble service, the difference becomes even greater.

Compatibility: The DMH9000 can be fitted with cable and plugs for almost any professional application including broadcast, audio console, recording console and computer.

Technical Specifications (subject to change without notice)

Earspeakers:

Frequency response: 16-10,000Hz or 10-34,200Hz†

Nominal Impedance: 400 (each side)

Sound pressure level: ≥94dB

External noise exclusion: >25dBA

Average pressure on ears: ≈ 7N

Weight (without cable): 12oz (350g)

Microphone:

Transducer type: Condenser

Frequency response at -10dB: 35-15,000Hz

Polar pattern: Hypercardioid (near field)

Front-to-back ratios 100-1000Hz: ≥20dB at 180 degrees

≥22dB at 135 degrees

Sensitivity @ 1kHz: ≈ 7mV/Pa

Impedance @ 1kHz: 600 , balanced

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HH10A & HH10B Intercom Handsets

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The HH10A consists of the handset with push-to-talk switch, equipped with a US-made coil cord and 4-pin XLR connector, and a wall mount cradle with retaining spring-clip, as shown in the photo above.

The HH10B consists of the same handset, coil cord and cradle, but the coil cord is wired to the cradle which, in this model, contains a hook-switch to mute the earspeaker when the handset is “hung up”. A ten foot cable is wired to the HH10B cradle, with a 4-pin XLR connector for connection to an intercom station. We recommend the HH10B for quiet environments where the audio from the earspeaker (while the handset is in the cradle) would be a nuisance.

Performance: These heavy duty handsets are equipped with dynamic transducers suitable for intercom use. To prevent feedback and permit high levels before feedback, the interior of the handset is partially filled with a dense mastic material, blocking internal acoustic coupling between the microphone and the earspeaker. A high quality shielded coil cord is then fitted with a genuine Neutrik® connector.

Durability: These handsets are molded from commercial telephone quality compounds. No other handset offered for intercom use provides greater resistance to physical damage. The cradle includes a spring-clip, which prevents the handset from being accidentally dislodged. The push-to-talk switch in the handset and the hook switch in the HH10B cradle are rated for millions of cycles.

Value: Pro Intercom offers these high quality handsets at prices comparable to regular imported plastic handsets.

Technical specifications: (Subject to change without notice)

Earspeaker:

Impedance: 150Ω @ 1kHz

Freq. Response: 200~3200Hz

Sensitivity: nominal 116dB @ 1kHz

Microphone: (Dynamic)

Impedance: 150Ω @ 1kHz Freq. Response: 300~4.5kHz

Sensitivity: nominal 51dB @ 1kHz

Weight: Excluding connector & cradle - Approx 12.5 oz

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