



## FEATURES

- *Universal interface for 2-, 3-, and 4-wire systems*
- *Balancing circuits*
- *Headset test connector*
- *Transmit and receive gain controls*
- *Transformer-isolated*
- *Uses minimal rack space*
- *Easy to interconnect*
- *Telephone holding coil keeps calls online for intercom purposes*
- *Powered by Clear-Com line*

## DESCRIPTION

The AC-10H "Adapt-A-Com" is a versatile, active hybrid interface that connects the Clear-Com system to a variety of other communications systems, carbon systems, and other closed-circuit intercoms.

The AC-10H provides built-in test tones and balancing circuits for fast, convenient set-up. A front-panel connector lets you plug in a standard Clear-Com headset and listen to test tones during setup. The front panel also provides Transmit and Receive controls to adjust the level from Clear-Com to the other system. These controls allow for at least 10 dB of gain.

### TWO-WIRE MODE FOR TELEPHONES

In the two-wire mode, the AC-10H works with standard telephone company systems or dedicated telephone-line pairs. You can feed the telephone line directly through the AC-10H to the Clear-Com system. A holding-coil circuit allows you to dial or receive a telephone call and then hang up the receiver, keeping the party online for intercom purposes. When operating in the two-wire mode, the AC-10H can be set up for high-impedance (600  $\Omega$  TELCO) or low impedance (16  $\Omega$ ; e.g. RCA or DAVEN) lines.

In the three-wire mode, the AC-10H looks like a carbon headset, and so can be wired into the headset jack of a television camera, camera control unit, or other carbon headset system.

### THREE- AND FOUR-WIRE MODE

In the four-wire mode, the AC-10H connects to all four-wire TV camera intercoms and other four-wire intercom systems.

Any Clear-Com power supply connected to two Adapt-A-Coms wired together effectively creates an "anything-to-anything" adapter.

### SIMPLE INTERCONNECTIONS

The AC-10H mounts in a standard 19" rack, and is 1 RU high. It is powered through the Clear-Com system with standard two-conductor mic cable. The rear panel provides 5-way binding posts for fast, positive connection to the interfaced system.

**SPECIFICATIONS**

**FREQUENCY RESPONSE**

150 Hz - 10 kHz, ±3 dB

**LOAD TO CLEAR-COM**

High impedance (bridging)

Interface Impedance,

2-Wire Mode, Normal: 1,100 Ω

2-Wire Mode, Low-Z: 4 Ω

3- or 4- Wire Mode,

Transmit Output: 200 Ω

Receive Input: 500 Ω

**CONTROLS**

A & B Balance

(to reduce side tone and permit increased gain before feedback)

A & B Test Switches

(to inject test tone and switch monitor headset for balancing purposes)

Transmit Gain Control

Receive Gain Control

Mode Select Switch

Impedance Select Switch (for 2-wire systems only),

High-Z: ≈ 600 Ω

Low-Z: ≈ 16 Ω

**MAXIMUM LOOP GAIN**

10 dB overall

**TRANSMIT OUTPUT**

2-Wire Mode, Normal: +8 dBm max into 200 Ω

2-Wire Mode, Low-Z: 125 mV max into 4 Ω

3- or 4-Wire Mode: +4 dBm max into 600 Ω

**TEST HEADSET OUTPUT**

Drives headphones with >300 Ω impedance

(4-pin XLR male connector)

**INPUT & OUTPUT CONNECTORS**

(4) 5-way binding posts for interface to other systems

(1) 3-pin XLR female connector for interface to Clear-Com

**POWER REQUIREMENTS**

18 mA @ 28 V from Clear-Com

**DIMENSIONS**

1.75" H x 19" W x 6" D (45 x 483 x 153 mm)

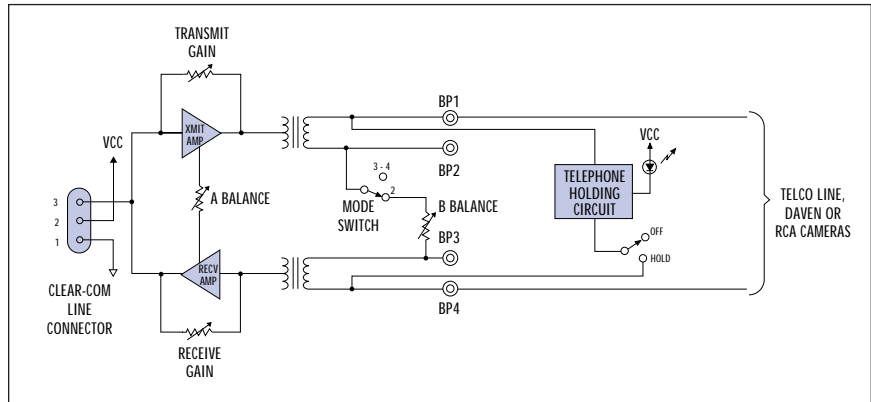
**WEIGHT**

2 lbs (0.91 kg)

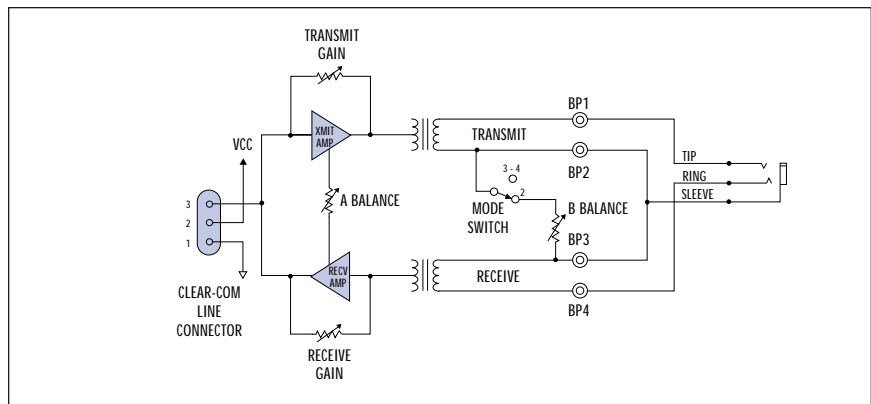
*All specifications are subject to change without notice.*

*\* 0 dBv is referenced to 0.775 volts rms.*

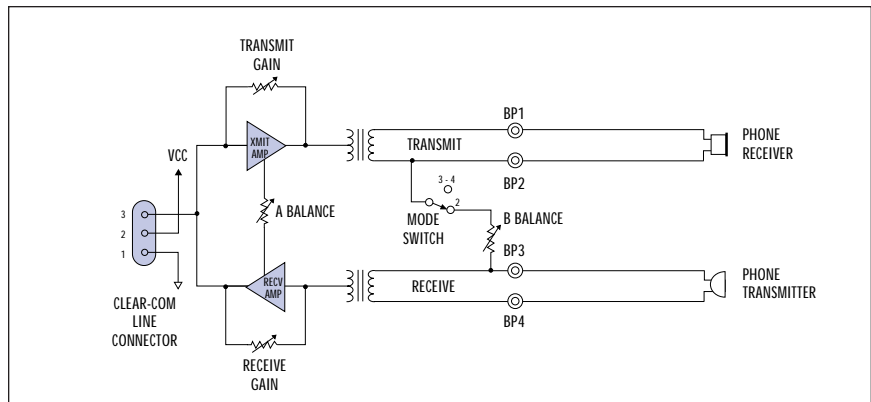
**AC-10H BLOCK DIAGRAMS**



**2-WIRE SYSTEMS**



**3-WIRE CARBON SYSTEMS**



**4-WIRE TELEPHONE/CAMERA SYSTEMS**