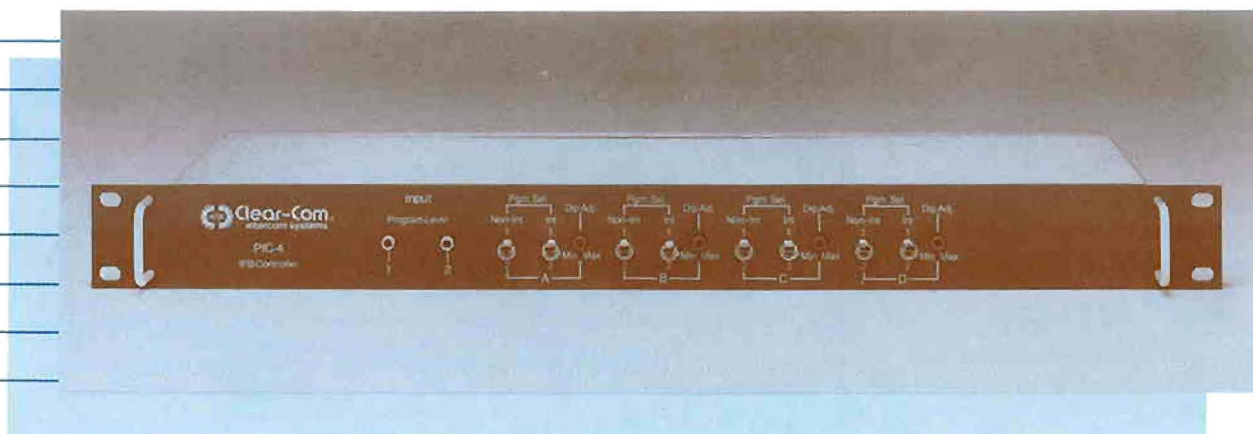


PROGRAM INTERRUPT SYSTEM



PIC-4 IFB CONTROLLER TR-50 TALENT RECEIVER RS-201 SPLIT-FEED TALENT RECEIVER

FEATURES

- Compatible with DLC Series and other Clear-Com Main Stations
- Fully integrated within intercom system
- PIC-4 features two program inputs & individual program level controls
- PIC-4 routes program and cues to as many as 8 Talent Receivers
- Program feeds are selectable to interrupt or non-interrupt
- Dip level individually adjustable for each talent output
- Split program feeds available
- Easy to install and interconnect
- Uses minimal rack space
- Broadcast-standard design



DESCRIPTION

The Clear-Com Program Interrupt System is an "IFB" system that's fully integrated within the intercom system. It is designed for all teleproduction and broadcast facilities.

During production taping or airing, the talent (commentators, musicians, sportscasters, etc.) frequently need to monitor the program audio and also hear cues from the director. Clear-Com's IFB System lets talent monitor program and lets directors interrupt or dip the program to address the talent.

Our flexible IFB System sends one of two program signals to talent, and permits **multiple** intercom station operators to interrupt program and cue talent. (Split program feeds are possible, allowing the talent to monitor a continuous program in one ear and have program interrupted in the other ear. Particularly suited for remote sports applications, a split-feed output is fed to the RS-201.)

The components of the IFB System (PIC-4 and TR-50's) are powered by the connection to the Clear-Com system. The intercom system must include a DLC Series intercom station with at least one IFB Control Drawer (Model IFB-4) or a standard Clear-Com Main Station (rackmount models only) with channels modified for IFB use.

When the director (DLC Main Station operator) presses an IFB button on his station, the station's mic activates but is disconnected from the "talk" portion of the intercom system. The director can

now talk to talent (which talent depends upon which IFB button is pressed). The "listen" portion of the intercom system is not affected, thus allowing the director to continue monitoring the intercom channels during IFB use.

Each PIC-4 provides outputs to four talents. Intercom systems that use DLC Stations can include two PIC-4's, allowing access to up to eight talent.

PIC-4 IFB CONTROLLER

The PIC-4 contains all the controls and connectors needed to provide a link between the intercom/IFB stations and the talent receivers.

With each output to talent, the PIC-4 provides a control for dip level adjustment (the amount the program is attenuated when the director cues talent) and switches for selecting which continuous and/or interrupted program each talent will receive.

TR-50 TALENT RECEIVER

The TR-50 allows the talent to hear program and cues from the PIC-4 and intercom/IFB system.

The lightweight TR-50 is a miniature belt-pack with a volume control and a clip for attaching it to a belt or under a table-top. It contains an earphone connector, and is supplied with an earpiece, Model TS-1.

continued

RS-201 TALENT RECEIVER

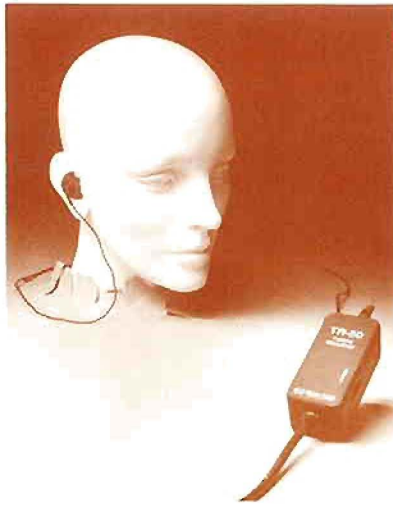
The RS-201 works with a double-muff "stereo" headset that receives a different signal in each earpiece (such as Clear-Com's DT-109/6 Binaural Headset by Beyer).

The RS-201 is ideal when it is necessary for talent to monitor two separate programs or hear continuous program in one ear and interrupted program with cues in the other ear ("split feed").

THE INTERCOM/IFB SYSTEM

The IFB System also works with a standard four-channel Clear-Com system; modifications are made at the factory to the intercom channels needed for IFB use. Any number of designated MS/RM-400 or SB-412 Stations can be set up for IFB.

A DLC System intended for IFB use must include an MS/IS-808 Station with at least one IFB-4 Control Drawer. This Control Drawer contains four momentary push-buttons, each of which is associated with a separate Talent output from the PIC-4 Controller. The MS/IS-808 Station contains an ALL IFB pushbutton that simultaneously accesses all talent.



SPECIFICATIONS

IFB SYSTEM SPECIFICATIONS

Frequency Response: 100-15k Hz \pm 1dB
 Distortion: <1% THD at 1kHz
 Signal-to-Noise Ratio: Better than -55dB
 IFB Line Level: -10dB

PIC-4 SPECIFICATIONS

CIRCUIT DESIGN: IC amplifiers and solid state switching. Current limited with short circuit and reverse polarity protection

PROGRAM AMPLIFIERS (2)
 Input: 100k Ω balanced (47k Ω single-ended), line level
 Input Level: -15dBv nominal, +10dBv max before clipping*
 Frequency Response: 150Hz-18kHz
 Gain: 0dB

MUTE CIRCUITS (4)

Attenuation: 0-50dB
 Control Voltage Threshold: 4vdc

LINE CIRCUITS (8)

Type: Internally terminated, send only (no listen)
 Level: -15dBv nominal, +1dBv max before clipping*

CONTROLS: Program gain adjust (2), Program source select (8), Dip depth (4)

CONNECTORS

Program Input: (2) 3-pin XLR female
Intercom Input: (4) 3-pin XLR female
Talent Output: (4) 3-pin XLR male (or 6-pin for split feed)
DLC Input: 30-pin Tuchel, male
Extension: 25-pin "D" connector, male

POWER REQUIREMENTS: 20-30vdc at 30 ma max

DIMENSIONS: 19"W x 1.75"H x 6.6"D
 463mmW x 45mmH x 168mmD

TR-50 TALENT RECEIVER SPECIFICATIONS

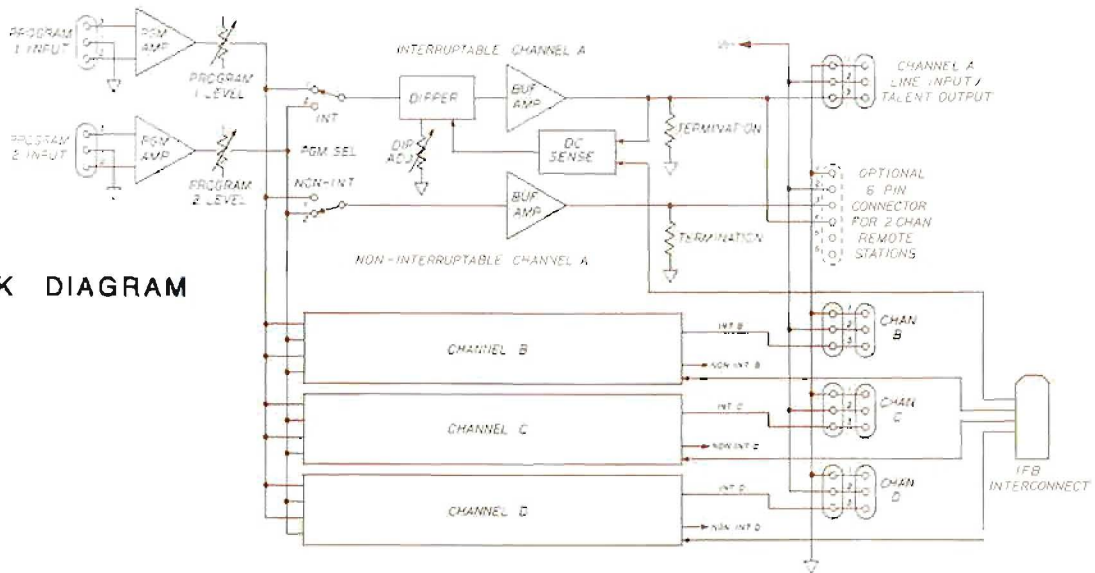
Earphone Type: Dynamic
Earphone Impedance: 30 Ω or greater
Max. Output Level: +20dBm
Power Required: 10 ma quiescent at 28VDC supplied by Clear-Com line
Headset Connector: 1/8" miniature jack
IFB Connector: 3-pin XLR female (at end of 6' cord)
Dimensions: 1.5" x 1.5" x 3.6"
 38mm x 38mm x 91mm
Weight: 4.5 oz

RS-201 TALENT RECEIVER SPECIFICATIONS

Headset Type: Dynamic
Headset Impedance: >150 Ω
Max. Output Level: +20dBm
Power Required: 15 ma quiescent at 28VDC supplied by Clear-Com line
Headset Connector: 6-pin XLR male
IFB Connector: 6-pin XLR male
Dimensions: 5.25" x 3.75" x 1.5"
 133mm x 95mm x 38mm
Weight: 16.5 oz

Specifications subject to change without notice
 *0 dBv is referenced to 0.775 volts rms.

PIC-4 BLOCK DIAGRAM



TR-50 BLOCK DIAGRAM

