

USER GUIDE



IFB CONTROLLER

Model IFBC

Version 1.0

DM Engineering

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Overview:

The DM Engineering IFB Controller consists of a high quality low noise microphone pre-amplifier that bridges the main microphone circuitry and delivers a balanced line level output to your Codec for studio/remote site communications.

Installation is simple, just loop your Control Room microphone and mix-minus buss audio through the XLR connectors on the rear of the IFB Controller. The balanced output of the IFB Controller can be connected directly to the codec that you are using for remote broadcasts. The insertion of the IFB Controller in the mic chain will not affect the operation or sound of the Control Room mic in any way, and use of phantom power is not altered in any way by the insertion IFB Controller. The IFB Controller can also be used at a remote site or sporting event when you need to talk to the talent on the field without intruding into the play-by-play or color persons earphones. Simply install it in-line with the program audio going to the IFB transmitter for the field talent. The IFB Controller has a recessed front panel "mic gain" control that can be pre-set for any type of microphone input or even line level inputs. There is a front panel "ducking" switch for including or not including the mix-minus program material in the output to the codec, including a "ducking level" control to adjust the amount of "ducking" of the mix-minus material under the talk back mic audio. A rear panel "remote control" jack is provided for remote operation of the IFB Controller by a set of normally open contacts or a logic-low signal. The IFB Controller is supplied with a 15VDC power supply (wall wart).



Installation

1. Connect the main microphone XLR connector to the "MIC IN" connector and connect the "MIC OUT" to your control board microphone input. Connect a mix-minus feed from your control board to the "Mix Minus In" XLR connector and the "OUTPUT" XLR connects to the send input (towards the remote) on the Codec. Refer to Fig. 1

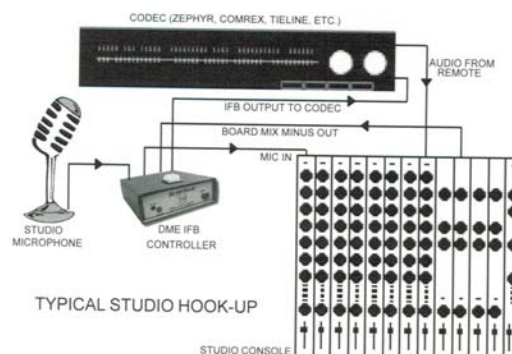


Fig. 1

Setup

1. After connecting the IFB Controller as described above, connect the Power Supply to the unit.
2. While depressing the Talk-Back button on the top of the controller, adjust the “Mic Gain” control for the proper microphone audio gain to your Codec. If the “Clipping” LED blinks or lights, you are overdriving the amplifier circuitry and the gain must be reduced to avoid distortion in the IFB send.
3. With the “Ducking” switch enabled, press the “Talk-Back” button and adjust the “Ducking Level” to a comfortable mix-minus headphone level with respect to the talk back level. You can select either mix-minus ducking or no audio during talk back using the “Ducking” switch.

Warranty Information:

The DM Engineering IFB Controller is warranted for a period of one year from the date of purchase. This warranty covers materials and workmanship only. Any misapplication, physical or electrical damage from outside sources or by the customer is not covered. For factory warranty repairs, the customer must pay shipping costs to the factory, and DME will pay standard ground transportation shipping costs to return the warranted equipment to the customer. Any priority shipping costs are to be the responsibility of the customer as ground service is standard. Please contact the factory for an RMA number prior to any returns. Items returned without an RMA may be sent back to the customer unopened.

Technical Support

If you have questions, experience difficulties with the product or require further information please contact DME at: 805-987-7881, toll free 800-249-0487, or E-mail technical support at: support@dmengineering.com, or visit www.DMEngineering.com for the latest User Guide.

Specifications:

Case dimensions: 5.09" W X 5.30" L X 1.5" H

Case material and color: ABS flame retardant plastic, RF shielded, black

Power supply: 15VDC 500MA “Wall Wart”

AC input operating voltage: 105-125 VAC, 60 Hz

IFB system frequency response at -10 dBu input level: ± 2 dB, 20Hz-20kHz

Mic bridging amplifier input impedance: 20K Ω

IFB output impedance: 600 ohm balanced

Power supply cord length: approx. 6 ft. total

Mounting method: desk-top, rubber feet

Operating temperature: 32 to 110°F

Humidity: 0 to 95% non-condensing