

bexel

FALCON

Sportscaster/Commentary Unit

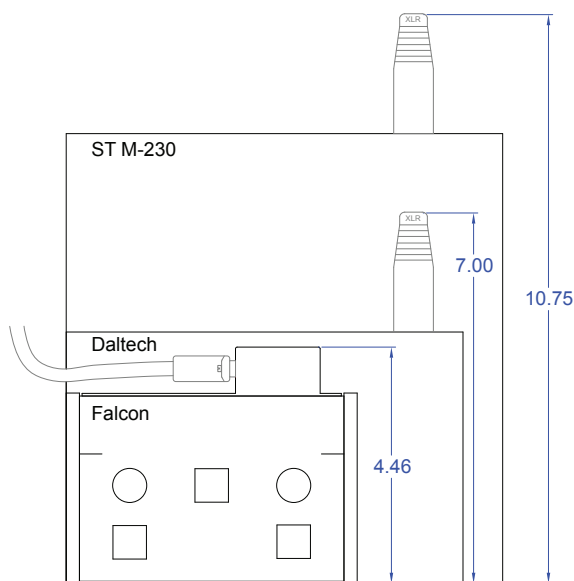


	Width	Depth *	Average Power Draw @ 30V DC	Talk-Back Outputs	Dedicated TB Limiter
Falcon	5.5	4.5	92mA	2	Yes
Daltech	7.5	4.75	51mA	1	No
ST M-230	8.25	8.5	127mA	2	No

*excluding XLR connectors

FOR APPLICATIONS WHERE SPACE IS AT A PREMIUM, THE FALCON PROVIDES THE OPTIMUM FEATURE-SET IN THE SMALLEST FOOT-PRINT IN THE INDUSTRY.

...a feature set optimized for live television sports broadcasting in the U.S market...



- Simple and clear controls for ease of use
- Passive, noise free broadcast microphone path with "COUGH" switch
- Dual Talk-back outputs
- Talk-back outputs feature Compressor/limiter, level adjust and transformer isolation
- Isolated IFB circuits assure noise-free performance
- Ultra-low distortion, high-speed ear-piece amplifiers
- Powered from "WET" IFB circuit
- Audio signals connect with provided multi-pin harness
- Smallest foot-print on the market
- Durable, powder-coated aluminum and steel chassis
- Left or right hand interface cable routing
- Interchangeable Headset/microphone connection
XLR-3, 5, 6, 7-pin options available

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Bexel/ASG Products

Falcon

Sportscaster/Announcer Unit



1 If the microphone path is passive, why does the Falcon need power?

Power is required for the ear-piece and talk-back amplifier circuitry.

2 How does the Falcon get power for its active circuitry?

Power is provided by the supporting IFB or Intercom power supply through the IFB connection.

3 Can the Falcon accept external power from a separate DC power source or does it have to be from the IFB or intercom power supply?

For now, the Falcon can only be powered by the IFB connection from an IFB or Intercom power source.

Pin-1 is Ground/Common

Pin-2 is Left Ear (Interrupt) & 25-30V DC

Pin-3 is Right Ear (Non-Interrupt)

4 Why do the COUGH and Talk-back switches cause a click-noise sometimes, but other times they are silent?

The passive nature of the microphone path causes greater sensitivity to outside factors. The click is caused by a capacitor inside the Falcon which needs to be discharged when the switch is depressed. The click-noise is eliminated by connecting a microphone to the input connector and waiting a few minutes. The resistive load of the microphone serves as a discharge path for the capacitor. Leave the microphone plugged in while testing for switch-contact noise.

Also, the mute function is an instant on/off state change. If any form of audio, particularly test-tone, is routed through the microphone signal path of the Falcon, a click-noise is inevitable since the switch is not always pressed at the zero-crossing of the program source. If no audio is present and the units have been on for a few minutes with a microphone connected, there should be no perceptible noise.

- 5 *I want to use my own custom booth-harness like I do with other announcer units. Because of the D-SUB-15 connector/cable assembly I can't. Is an XLR version available?*

Yes, an XLR version is available. The D-SUB-15 equipped Falcon is the Low-Profile version for situations where space is at a premium. An XLR equipped rear-connector assembly is available which provides standard 3-pin XLR connectors for the audio circuits.

- 6 *I see the thumb screws on the rear panel...why would I need to get inside the unit?*

The D-SUB-15 connector assembly is able to change to a left or right hand cable exit orientation. This is the same reason that a Power indicator is on both the top and bottom of the assembly.

Also inside the chassis is a jumper that defeats the Talk-Back Limiter function. Remove the jumper and the limiter is bypassed.

Note The jumper is not a commonly found zero-ohm shut but rather a 10k Ω resistor which sets a moderate limiting ratio. If a zero-ohm shunt is used, the limiting will very aggressive and the Talk-back output level will drop by approximately 15dbu.

- 7 *Can the Talk-back outputs of several units be connected using "daisy-chain" wiring or "Y" cables?*

Yes, the Talk-back outputs are transformer isolated, balanced line level so a simple "Mult-Box" or "Y" cable solution will work.

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