

BUZ Specifications

Dimensions/Weight: approx. 5 in. by 2½ in. by 1¼ in. / approx. 8 oz..
Power Consumption: 80 milliamps @ 11-17VDC (Motor stopped) up to
400 milliamps max when driving a motor

Lemo Connector Part Numbers

<u>Connector</u>	<u>Receptacle</u>	<u>Plug</u>
Power	ECG.0B.302.CLL	FGG.0B.302.CLAD42
Motor Output	ECG.1B.304.CLL	FGG.1B.304.CLAD62

Control Connector Part Numbers

<u>Lens Type</u>	<u>Mfr.</u>	<u>Receptacle</u>	<u>Plug</u>
Canon/Fuji 8-pin	Tajimi	R03-R8F	R03-PB8M
Nikon/Fuji 12-pin	Hirose	HR10A-10R-12S	HR10A-10P-12P
J-7	Hirose	HR10-7R-6S	HR10-7P-6P

Technical Support

Address any technical question to:

BarTech Engineering
5285 East Appian Way
Long Beach, CA 90803
Tel: (562) 987-9159 (M-F 9:00 am/ 5:00 pm)
Fax: (815) 364-5240
Website: <http://www.bartechengineering.com>
e-mail: jim@bartechengineering.com

For users of the Bebob Zoe and Zoe II

The Direction Switch operates by reversing polarity of the voltage sent to the Zoom control. This will cause the Zoe to stop operating. So you must set the control to the position that allows the unit to work and leave it in that position. The Zoe has its own direction reversal switch that should be used instead. Also, If the Speed Control is set too low the Zoe may stop operating. The speed control adjustment on the Zoe should be used instead.

B. U. Z.



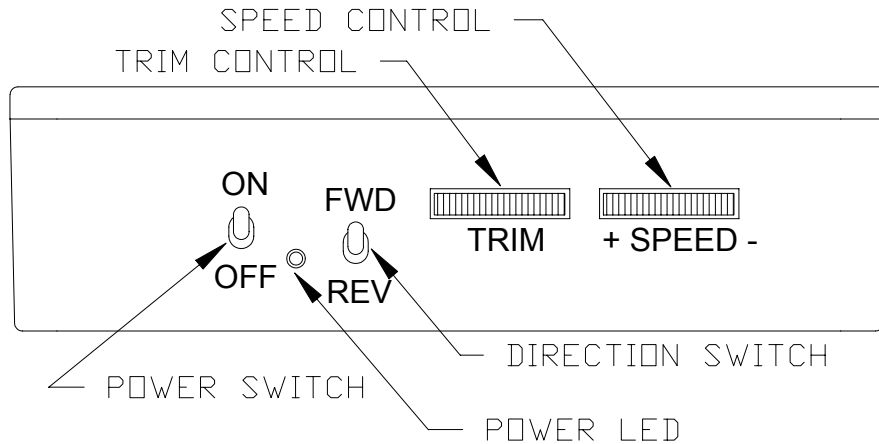
BarTech Utility Zoom Owner's Manual

Introduction

The BarTech Utility Zoom (BUZ) is an electronic module that serves as the interface between a video-style external zoom control, such as the Tiffen J-7, Libec ZC-9PRO, or Bebob Zoe* and a stand alone motor. For optimum performance, a zoom motor, like the Heden M26T or SPF ZMG-6 is required. However, a focus motor may also be used but very low speed zooming will not be possible.

Controls

One side of the BUZ is the control panel. There are four controls, two potentiometer adjustable and two switches, and one LED.



Power Switch and LED: This control turns power on and off. It only controls power to the internal circuitry and does not affect power passing through the unit from one external power connector to the other. The Green LED lights up to indicate power on.

Trim Control: This control is used to adjust out any movement or “drift” when the control is in the null or “at rest” position. Note that when the Rate control or the direction switch is changed this may need to be re-adjusted.

Speed Control*: This control adjusts the speed range of the motor. Rotating the control to the left (+) increases the maximum of the motor. Rotating the control to the right (-) decreases the maximum speed of the motor. **Note: The record button on the zoom control overrides this control and sets the maximum motor speed to full.** This is sometimes called a “Zap” function and is used to return the lens to its starting point at full speed after a long, slow zoom. Also note that some zoom controls have built in speed control pots. They may have no effect when using the BUZ.

Direction Switch*: This control sets the direction of motor travel. If the motor turns in the opposite direction desired when the control knob is moved in a given direction change this switch to the other position.

* For Zoe users, see note on last page.

Connectors

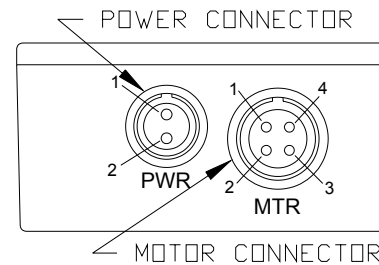
There are four connectors on the BUZ: two power connectors, a motor output connector and a control input connector. The power and motor connectors are always the same but the control input can be one of three different connectors and can be wired one of four different ways:

PWR - Power Connectors: There is a 2-pin power input/output connector at each end of the BUZ. Either one may be used for connection to an external 11 to 17VDC power source. Pin 1 is positive, pin 2 is negative.

MTR - Motor Output Connector: A 4-pin motor connector is used to connect the BUZ to a lens drive motor. The pin assignments are 1-for-1 compatible with the Heden M26T motor. Pin 1 is tachometer +, pin 2 is tachometer -, pin 3 is motor + and pin 4 is motor -.

CTRL - Control Input Connector: There are different control input connectors depending on what type of zoom control is being used. The Tiffen J-7 requires a 6-pin Hirose connector. Canon and some Fuji lens controls both require an 8-pin Tajimi connector, but it is wired differently for each. Nikon and other Fuji lens controls require a 12-pin Hirose connector. Each connector has 5 pins connected: Zoom out high, Zoom out low, Zoom in, Zap, and Ground.

Motor Output End Connectors



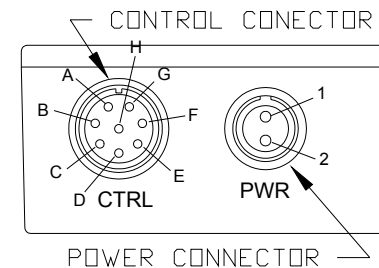
PWR

1. +11 TO +17 VDC
2. GROUND

MTR

1. TACHOMETER +
2. TACHOMETER -
3. MOTOR +
4. MOTOR -

Control Input End Connectors



PWR

1. +11 TO +17 VDC
2. GROUND

CTRL (8-pin Tajimi shown)

- A. ZOOM IN (C), ZOOM HI (F)
- B. ZOOM HI (C), ZOOM IN (F)
- C. ZOOM LOW
- E. ZAP
- F. GROUND

(Note: (C) denotes Canon wiring, (F) denotes Fuji wiring)