

Operation Manual of Fiber Coupled Acousto Optic Modulator Series Product

1. Usage Method

1.1 Please use the provided power cable to connect the drive power "+24V" port. One end of the power cable is connected to the "+24V" port of the drive power according to the positive and negative levels, and the other end is correctly connected to the positive and negative poles of the 24V power according to the positive and negative marks of the power cable. If the connection is reversed, the drive power may be burned out directly.

1.2 The output power of the drive power supply is adjustable. Generally, the RF output power has been modulated together with the acousto-optic device before leaving the factory. Please do not adjust if there is no special requirement. If you need to change the RF power, use a flat-blade screwdriver to turn the small hole knob in the "**Amplitude Modulation**" end. Clockwise power decreases, counterclockwise power increases.

1.3 Please connect the "**power output**" port of the drive power supply with the equipped SMA signal line; the SMA at the other end of the signal line is directly connected to the acousto-optic device.

1.4 The "**Modulation**" port is used to load control signals, which are standard TTL digital signals. **Note: The power supply is high-level conduction, and 5V (no lower than 3.3V) must be applied to the "modulation" terminal to have RF power output.**

1.5 When using an acousto-optic device, the laser source used must be the same as the laser source described before the purchase, otherwise it will affect the insertion loss of the acousto-optic device during testing.

1.6 When using the optical fiber interface of the acousto-optic device to connect the light source or photoelectric probe, please carefully confirm whether the optical fiber interface of the acousto-optic device is FC/PC or FC/APC. If the optical fiber interface of the acousto-optic device does not match the interface of the connected device, please use an adapter to ensure that the interface is consistent, otherwise it will affect the insertion loss of the acousto-optic device during testing.

2. Notification

2.1 Acousto-optic devices work under high frequency conditions. **In order to prevent man-made damage, when the "power output" terminal is not connected to a load (that is, the acousto-optic device is not connected), 24V power supply shall not be loaded to prevent the RF source from being idle and causing high-frequency oscillation to damage the components. Especially after the test is completed, remember to turn off the 24V power supply in time to avoid idling the drive power supply;**

2.2 Before powering on the drive power supply, be sure to place or fix the drive power supply to a metal plate with good heat dissipation effect to avoid damage to the internal components of the power supply due to poor drive heat dissipation effect;

2.3 Pay attention to protect the optical fiber to avoid damage or breakage;

2.4 Put a cap on the fiber interface after use to avoid wear or contamination of the interface end;

2.5 The product should be handled with care to avoid impact.

3. Connection Diagram

