

# Cameo

## User Guide



### 1. PRODUCT OPERATION

Thank you for purchasing the Cameo laser. This emits a red / infra-red spot. You will have one of the following two versions:

- 1250 CW Version
- 1260 Gating Version

If you have any problems or require help when using the Cameo laser please call us on +44 (0)1495 212213 or contact your local representative.

### 2. PRODUCT OPERATION

#### 2A. 1250 CW VERSION

Connect 2 way JST connector to back of laser (see diagram A)

To operate laser in CW mode the Red and Black leads should be connected to the following:

1. Red lead: +3Vdc to +6Vdc
2. Black lead: 0Vdc

#### 2B. 1260 GATING VERSION (TTL CONTROL VERSION)

Connect 4 way JST connector to back of laser (see diagram B)

##### - CW MODE

To operate laser in CW mode the Red, Black and yellow leads should be connected to the following:

1. Red lead: +3Vdc to +5.5Vdc
2. Black lead: 0Vdc
3. Yellow Lead: +V supply
4. Blue Lead: Not connected (optional enable switch)

##### - TTL MODE

With this version, the yellow wire can be utilised to be driven with a TTL input modulation signal, with positive TTL level resulting in maximum power and zero TTL level resulting in an off state.

1. Red lead: +3Vdc to +5.5Vdc
2. Black lead: 0Vdc
3. Yellow lead: input TTL signal
4. Blue Lead: Not connected (optional enable switch)



### Enable Switch

An on/off switch function is available via the blue wire. Applying 0V will switch the laser off whilst applying Vsupply leaves the laser on. A TTL switch can be utilised via this lead. Leaving this lead unconnected will not affect the operation of the other modes.

## 3. FOCUS ADJUSTMENT

The focus of the laser can be adjusted by using the supplied focus key (as shown in diagram D). Should you need to adjust the focus please follow the simple instructions below:

1. If supplied with line optics please remove
2. Insert focus key into laser barrel and align with focus control groves.
3. Turn until desired focus is achieved
4. Replace front line optics if supplied

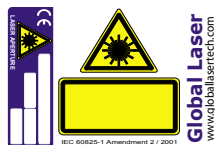
## 4. SAFETY AND CLASSIFICATION

These modules are intended for incorporation into customer equipment. They are classified in accordance with IEC60825-1 Amendment 2/2001, which should be consulted prior to designing or using any laser product. The following labels are supplied for attachment to the customer's equipment, but responsibility for compliance with the standard remains with the user.

EM Laser Label



Class 2M Laser Label



Class 3R Laser Label

## 5. CLEANING THE OPTICS

If the laser pattern becomes fuzzy or unclear, please check the following:

1. Check the laser is in focus (see section 3)
2. Verify the optical lens is clean, if the area has been contaminated please remove dirt with dry air.

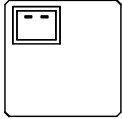
## 6. MOUNTING

It is recommended to ensure longer life and stability of the laser, the product is mounted in a suitable heatsink.

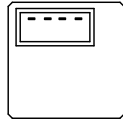
## 7. PRODUCT WARRANTY AND REPAIR

If your product develops a fault within 12 months from the date of purchase Global Laser will repair / replace the product. If you wish to return a faulty product contact your local representative or Global Laser to obtain a RMA (Return Material Authorisation code) and return to the address below:

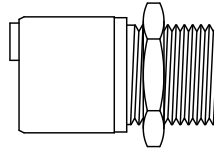
## 8. DIAGRAMS



2 Way JST (A)



4 Way JST (B)



Side and Front view of Cameo laser module (C)



Focus Key (D)



Technology Center, Cwmtillery Industrial Estate, Abertillery Gwent. NP13 1LZ  
T: +44 (0)1495 212213 F: +44 (0)1495 214004  
E: [sales@globalasertech.com](mailto:sales@globalasertech.com) W: [www.globalasertech.com](http://www.globalasertech.com)