



OBIS Galaxy Laser Beam Combiner

Laser Box and Lasers



Overview

OBIS Galaxy is a beam combiner that is setting a new precedent in compact and plug-and-play simplicity for multi-wavelength systems.

OBIS Galaxy is a flexible architecture to allow you to install and expand your laser application as needed in the factory or in the field.

This presentation will cover the three products available:

- 1) the OBIS Galaxy
- 2) the Laser Box and
- 3) the OBIS lasers.





Beam Combining System – Three Separate Products

1) OBIS Galaxy



2) Laser Box

3) OBIS FP Lasers



OBIS Galaxy Beam Combiner Features



Eight Input Channels

Single Output

Hands-Free Operation

Polarization Maintaining

Low Cost



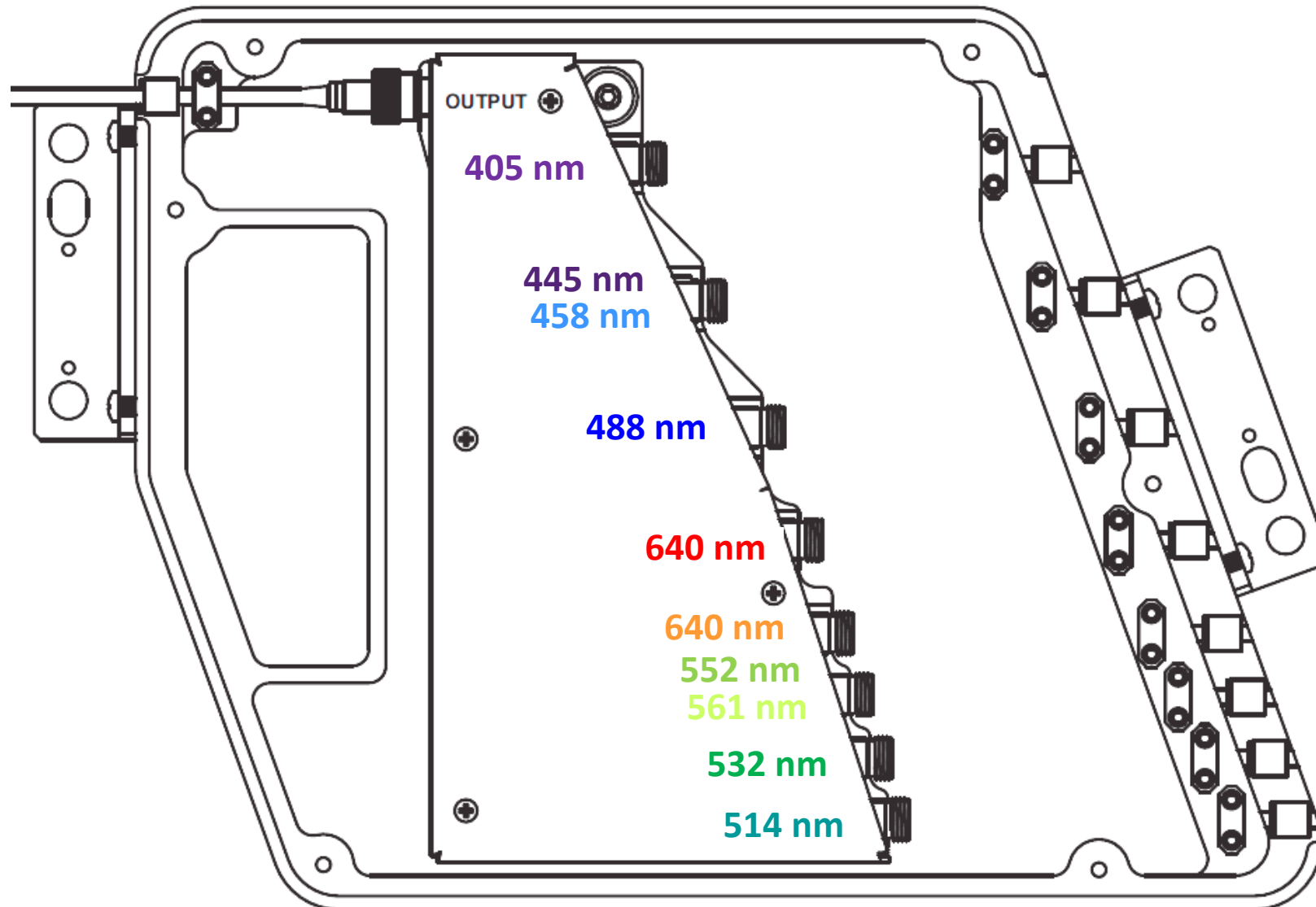
Robust Design

- Storage temperature: -20°C to +60°C
- Operating temperature: 10°C to +50°C
- Shock with ½ sine, 30g / 11msec, 3 pulses/axis
- Vibration at 20 – 2kHz, 7.7 g_{rms} X,Y and Z
- Humidity sealing with internal desiccant packs





OBIS Galaxy Beam Combiner Internal View





OBIS Galaxy Choices and Laser Box

Model	Item Number
Beam Combiner, 8 Input FC/UFC, Single Output FC/APC, 405, 445, 488, 514, 532, 552, 590, 640	1253553
Beam Combiner, 8 Input FC/UFC, Single Output FC/APC, 405, 458, 488, 514, 532, 552, 590, 640	1253554
Beam Combiner, 8 Input FC/UFC, Single Output FC/APC, 405, 445, 488, 514, 532, 561, 590, 640	1253555
Beam Combiner, 8 Input FC/UFC, Single Output FC/APC, 405, 458, 488, 514, 532, 561, 590, 640	1253556
Laser Box, OBIS FP, 5 bay with power supply	1228877



Beam Combiner Fiber-to-Fiber Throughput

Wavelength	Average
405nm	68%
445/458nm	75%
488nm	74%
514nm	71%
532nm	74%
552/561nm	75%
588nm	71%
640nm	72%

More Power Passed from Fiber to Fiber



OBIS FP Lasers for Galaxy

Fiber-Pigtail Lasers

High Precision FC/UFC with Extended Life Interface

Center Wavelength with ± 1 nm tolerance

