Satsuma Display

Flexibility and experience in a single compact laser

Satsuma Display is the most compact air-cooled femtosecond laser on the market, offering 4 individual outputs.

Satsuma Display is based on the well-known Satsuma platform - benefiting from 10 years of product improvements and feedback from installation of 1500 units in the field. The Satsuma platform's reliability and stability are internationally-recognized.

Thanks to the unique features of Satsuma Display, Amplitude enables Display leaders to operate with up to 4 different wavelengths using a single laser. It offers the possibility to optimize the quality of ablation to the highest level for every kind of materials, including metals, p-Si, ITO, isolators and polymers.

In addition, femtosecond pulses provide flexibility to deliver results for the most challenging processes, such as selective ablation, cutting, drilling and carbonization.

Upgrade your nanosecond or picosecond laser repair processes to femtosecond laser to increase your production yield.

Satsuma Display is robust, compact, light and air-cooled, making the integration smooth for gantry system designs.





Industry: > OLED and LCD array repair

> C/F repair
> µLED lift-off and repair

Key Features

- > 4 wavelengths IR, Green, UV and DUV for processing all kind of materials including metals, p-Si, ITO, isolators and polymers
- > Femtosecond pulses for high quality thin layer removal and cutting with low HAZ
- > Air-cooled, compact, lightweight and robust for smooth integration on a gantry system



Specifications	IR	SHG	THG	FHG	
Wavelength	1030 nm	515 nm	343 nm	257 nm	
Average Power	> 6 W	> 2.4 W	> 0.9 W	> 0.5 W	
Pulse Energy	> 40 µJ	> 16 µJ	> 6 µJ	> 4 µJ	
Repetition Rate	Single shot to 40 MHz				
Pulse Duration	< 350 fs to 10 ps				
Wavelength Switching Time	< 2 s				
Waist Asymmetry	< 13 %				
M ²	< 1.2				
Beam Pointing Stability		< 25 μrad/°C			
Warm-up Time		< 30 min			
*High Energy Option					

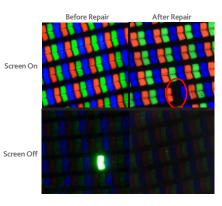
Dimensions Laser Head 58 x 39 x 20 cm Power Supply 4U rackable Weight Laser Head + HG < 30 kg Controller 15 kg

Options

- Output power monitoring for 4 wavelengths
- Burst mode Pulse train with 25 ns period
- Superior beam astigmatism <10%, waist asymmetry <5%

Application Results:

C/F repair – direct method



Array repair – block removal

