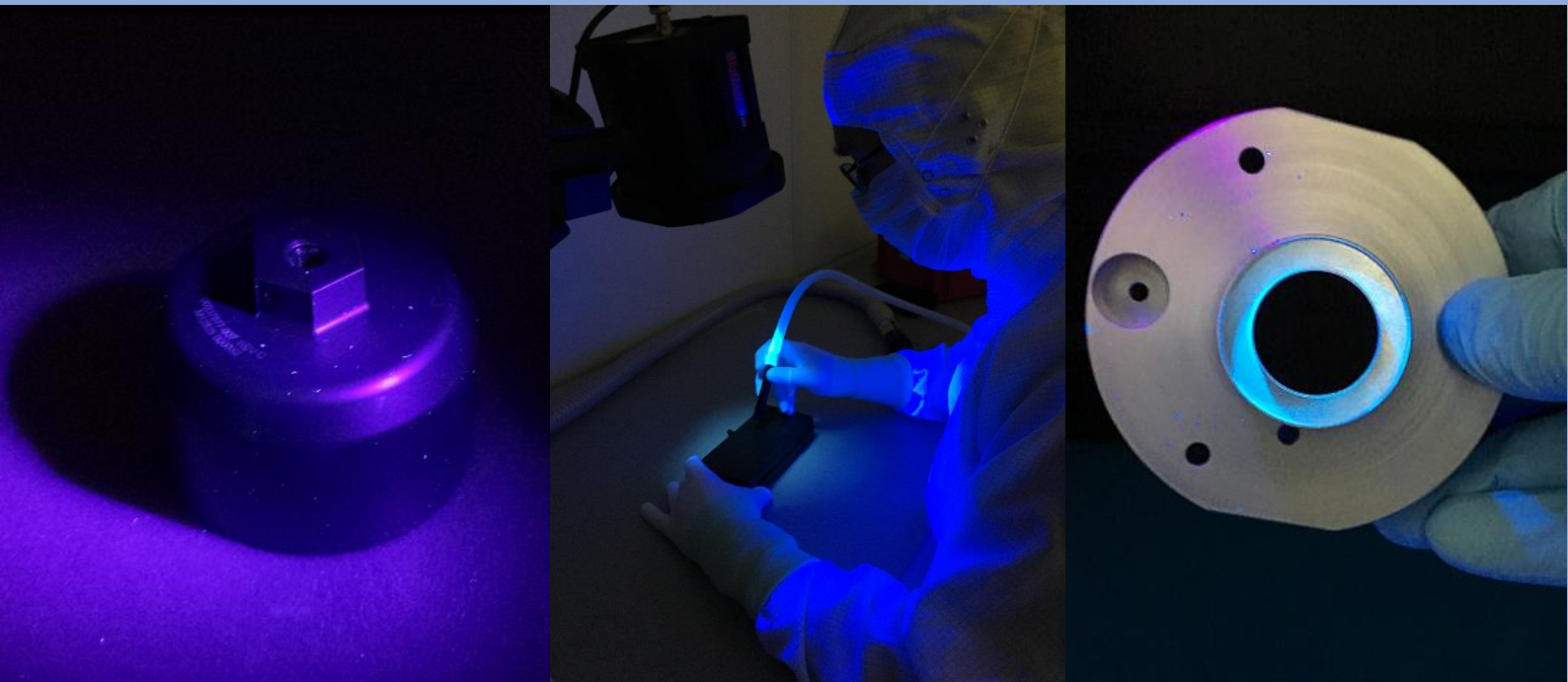


# Clean Room Applications Using Labino Ultra Violet Lights



Use Labino Ultra Violet Lamps to detect particles as small as 30  $\mu\text{m}$  that are not visible to the human eye and prevent contamination in the clean room.



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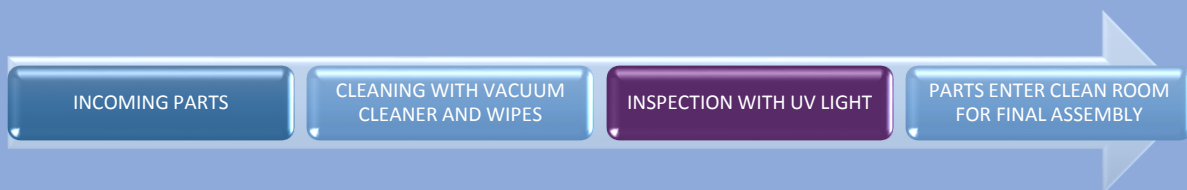
## UV inspection after Cleaning Machined Castings prior to delivery

Regardless of what cleaning methods you use to clean your machined plastic or metal parts from contamination, you need to validate that the part is clean. If inspecting the cleaned parts with Ultra Violet light, you will detect contamination that is not possible to see with the human eye. By adding UV inspection to your quality process you ensure that clean parts are delivered to your customer.



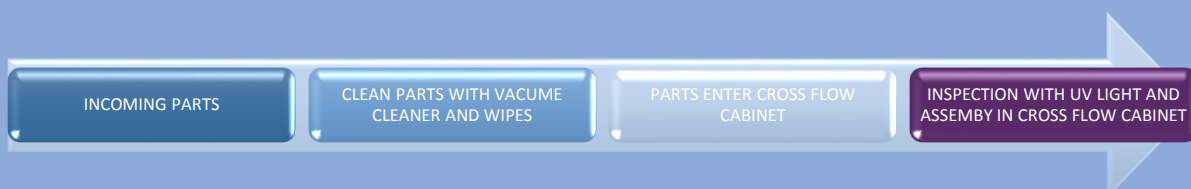
## UV inspection prior to assembly in Clean Room

Products sensitive to contamination must be assembled in a certified clean room or in a clean environment. It is of utter importance that the parts are clean prior to entering the assembly. Illuminating the parts with Ultra Violet light prior to entering the clean room decreases the risk of contamination.



## UV inspection during assembly in a Cross Flow Cabinet

If your assembly process doesn't include the use of a classified clean room, a Cross Flow cabinet could be very efficient. The cabinet keeps the air clean and the assembly process secured. However, the parts need to be clean when entering the cabinet. By inspecting the parts with Ultra Violet light inside the cabinet you ensure that the parts are clean prior to being assembled.



## Galaxy for Fixed Installations and Large Coverage

Galaxy is the perfect option for inspection in serial production where a handsfree solution is necessary and large coverage is required. The Galaxy system is a modular system and you can connect as many Galaxy lights as necessary to cover the surface needed for efficient inspection.



## BigBeam for Large Coverage

BigBeam offers a wide beam for large coverage and hands free inspection. You can inspect several parts at the same time without interruption. You can mount the BigBeam in several ways. Either with a mounting bracket on the wall or ceiling, or a friction arm to mount from a table or floor.



## MidBeam 2.0 for Hand Held Inspection

MidBeam 2.0 is a small handheld lamp with excellent coverage for its size. The lamp is available as battery or mains (AC) operation. If a hands free inspection is required the lamp can easily be mounted on a friction arm or on a flexible arm.



## UV Torch Lights

Labino offers a wide range of torches. The most popular UV torches for clean room applications are the UVG Medical and the UVG2 Midlight. Light weight tools offering a high intensity and good coverage. UVG Medical is unique is designed with intended use in medical and clean room environment. The smooth surface makes it easy to clean with iso propanol.



Model	UV Intensity at 38 cm (15'')	Beam coverage at 38 cm (>1200 $\mu\text{W}/\text{cm}^2$ )	Installation
BigBeam Helios Midlight	>8000 $\mu\text{W}/\text{cm}^2$	$\approx$ 275 mm (10.8'')	Handheld or fixed installation using a mounting yoke or a friction arm.
Galaxy Mother Midlight	>7000 $\mu\text{W}/\text{cm}^2$	$\approx$ 265x230 mm (10.4''x9.1'')	Fixed installations.
MidBeam 2.0 Zeus	>5 000 $\mu\text{W}/\text{cm}^2$	$\approx$ 200 mm (7.9'')	Handheld or fixed installation using a flexible arm or a friction arm.
Torch Light UVG2 Midlight	>10 000 $\mu\text{W}/\text{cm}^2$	$\approx$ 100 mm (3.9'')	Handheld. Tripod is available.
UVG Medical	>1 200 $\mu\text{W}/\text{cm}^2$ >35 000 $\mu\text{W}/\text{cm}^2$ at 5 cm (1.57'')	$\approx$ 20 mm (0.8'')	Handheld.



*The human eye is able to visualize a part as small as 50  $\mu\text{m}$  under very good light conditions. Ultra Violet light enables the human eye to see parts almost half the size, down to 30  $\mu\text{m}$ .*

**Labino Distributor:**



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