



**I. DESCRIPTION**

ADIX is an UV LED DMD Direct Imaging solution based on its ALDS-Power4™ technology. The solution is dedicated for PCB, FPC and all related imaging applications, for high mixt low and medium volume production, in inner layer, outer layer, and solder mask processes. It was designed to reach the best-cost performance.

**II. GENERAL CHARACTERISTICS**

<b>APPLICATION</b>	<b>PCB &amp; FPC: HDI • Multilayers • Flex • Rigid-Flex</b>
<b>Process</b>	Inner Layer • Outer Layer • Solder Mask
<b>Imaging resist materials</b>	All Photoresists and Solder Resists
<b>Resist sensitivity</b>	From 10 to 1,000mJ/cm <sup>2</sup> & above
<b>Exposure area</b>	From 228 x 254mm (9"x10") up to 610 x 762mm (24"x30")
<b>Panel Thickness</b>	0.04 to 6mm
<b>RESOLUTION</b>	<b>25µm/25µm (L/S)   50µm (dam)</b>
<b>Light Engine</b>	<b>ALDS-Power4™ (4 UV LED per photo head: 365, 380, 395, &amp; 405nm)</b>
<b>Edge roughness</b>	±1.5µm
<b>Depth of Focus</b>	±100µm
<b>Autofocus</b>	±8mm
<b>ALIGNMENT</b>	<b>±12µm (Side to side registration) ±8µm (Image to panel registration)</b>
<b>CCD Cameras</b>	Cameras for I/L, O/L and Solder Mask registration Scaling and Partitioning capabilities
<b>PRINTING TIME</b>	Panel size: 400 x 500mm, O/L mode, dry film 62mJ = 60 sec/side +/- 3 sec according to process variation
<b>SOFTWARE</b>	<b>ALTIX Direct Imaging Suite™</b>
<b>Data input</b>	Extended Gerber
<b>Languages</b>	All languages available: Italian, English, Simplified & Traditional Chinese, French,...
<b>HIGH YIELD</b>	
<b>Air cleanliness</b>	Hepa filter class 100
<b>Features</b>	Stainless steel (Frames & Covers)
<b>GENERAL UTILITIES</b>	
<b>Power Supply</b>	220/400/480V • 3 Phases • 50/60Hz
<b>Power Consumption</b>	4kW
<b>Air Supply</b>	6~7 bars • 1.5m <sup>3</sup> /min
<b>Water Supply</b>	Water pressure 3~5 bars • Flow rate: 23l/min @ 12°C or 33l/min @ 14°C
<b>Machine weight</b>	4,500kg (9,915lb)
<b>Dimensions</b>	3,491(L)x1,970(W)x1,956(H)