

METIS

HIGH QUALITY SCANNERS



SUPERSCAN PM3D®

The unique and unmatched surface scanner with the most innovative solutions for an automated workflow and the highest productivity.

It integrates METIS patented technologies for natural color capturing, 3D data calculation, glossiness and more.

METIS TECHNOLOGY

LET'S PLAY WITH LIGHT

METIS TECHNOLOGY

UNIQUE  FEATURES

SPECIFICATIONS

ABOUT METIS SUPERSCAN PM3D®

The **SUPERSCAN PM3D®** is based on new scanning concepts invented in 2014 by METIS and aimed to respond to the special needs of the industrial, decoration and fine-art markets.

In fact, the **SUPERSCAN PM3D®** integrates innovative and patent protected technologies that allow to scan color and calculate 3D surface embossing information from it, and at very high resolution even on large originals.

This scanner extends the lighting and scanning capabilities of the METIS DRS DCS family providing the ability to enlighten the original with 8 different and independent light sources, each aimed to a specific result. In particular, the **SUPERSCAN PM3D®** can enlighten the original with sharp or soft light sources from virtually any direction, including also the possibility to control specular reflections (e.g. for gold / glossy materials). Thousands of different light schematics are possible and achieved automatically through sophisticated software and hardware controls.

The 3D embossing data (depth map generation) is calculated based on the information provided by the different lightings and using unique algorithms developed by METIS that allow a dense and detailed 3D reconstruction of the original surface. Different kinds of embossed surfaces can be scanned with optimal results (wood, wall-papers, tiles, stones, etc.) and even glossy materials.

The **SUPERSCAN PM3D®** is the first scanner to breach the resolution limits caused by the number of pixels in the imaging sensors thanks to an innovative opto-mechanical design that allows a native optical resolution of 1200PPI on the full scanning area (200x130cm).

Moreover, the METIS Scan Merge tool allows to scan very large originals (even those that exceeded the scanning area) with perfect results.

The **SUPERSCAN PM3D®** adopts the new METIS Scan Director software that has been designed specially to fulfill the requirements of the industrial, fine-arts and decorative markets and for handling calculated 3D data.

Main Features and Specifications:

- **Maximum scan format:** 200x130cm (larger sizes are possible thanks to the Scan Merge tool that allows perfectly and automatically stitching different scans)
- **Maximum thickness:** ~10cm
- **Optical Resolution:** 1200PPI (adjustable from 100 to 3600 PPI)
- **Image sensor:** Trilinear - High Dynamic Range
- **Scanning technology:** X,Y microscanning
- **Acquisition modes:** Scan, Superscan, direct Superscan, DOF+ (various combinations are also possible)
- **Auto-focus positioning:** table height automatically adjust based on original thickness set in the scanning software
- **Lighting Schematics:** 8 light sources (4 sharp and 4 soft) that can be dimmed independently and combined into thousands of different light schematics; sophisticated cooling and temperature monitoring allow constant light emissions during time and always perfect results
- **Light source Type:** High CRI LEDs, IR/UV free
- **Image processing:** 16bit per channel (3x16bit)
- **METIS software:** run natively at 64bit on Windows 10 Professional 64bit
- **Colorimetry:** perfect colorimetric results with full ICC support
- **METIS Scan Director software:** integrated for controlling the scanner and acquisition process
- **METIS Light Inspector software:** integrated for editing Superscan file and for 3D depth map generation
- **Holding Table:** 230x140cm, can hold up to 200Kg, vertically motorized (software controlled), integrated pressure sensors
- **High grade precision/reliable mechanic and optics**
- **Scanner sizes:** 333cm width, 227cm depth, 170cm height
- **Weight:** ~1.800 Kg

Product specification or appearance may change without prior notice - V.1909a-ENG

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