- METIS manufacture scanners since 1998 for the cultural heritage market
- Since 2009 METIS moved also in the Décor market
- During the years METIS introduced many new technologies as for example the Photometric Stereo 3D in 2013
- > 500 METIS scanners installed worldwide

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METIS Show Rooms / Demo Centers

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PORTFOLIO FOR DECOR

SUPERSCAN PM3D

DRS 1220 DCS

DRS 1622 DCS

DRS 2020 DCS

SURF 3D

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New Model (2022)

DRS 1622 DCS

The newest middle size scanner from METIS hi-tech lab, specifically designed for the Industrial and Decor markets.

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METIS PM3D
(for large panels/stones)

SCANFORMAT 200 X 130 CM
IN FULL (!) RESOLUTION
- OPTIONAL WITH VACUUM TABLE

PERFECT FOR

WOODS, CERAMICS, STONES, WALLPAPER

AND ALL OTHER

DECOR INDUSTRY NEEDS

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METIS DRS Family

3 models (different scan sizes)

Multi-purpose scanner

-AUTO CAMERA WITH 16K SENSOR

TENTED DC SYNCHROLIGHT

THE DRS 2020 DC

SCANS ORIGINAL UP TO A
THICKNESS OF 50 CM

HIGH GRADE PRECISION / RELIABLE MECHANICS AND OPTICS

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Latest (2022) advancement in material scanning technology

METIS SynchroLight PLUS
(Patent protected technology)

METIS PBR Workflow

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PORTFOLIO FOR DECOR

SUPERSCAN PM3D

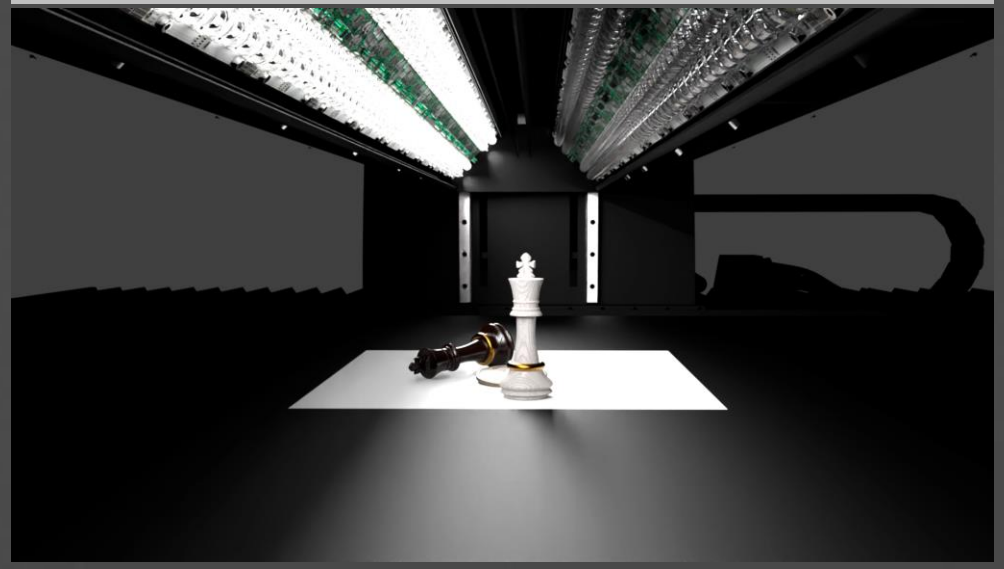
SURF 3D

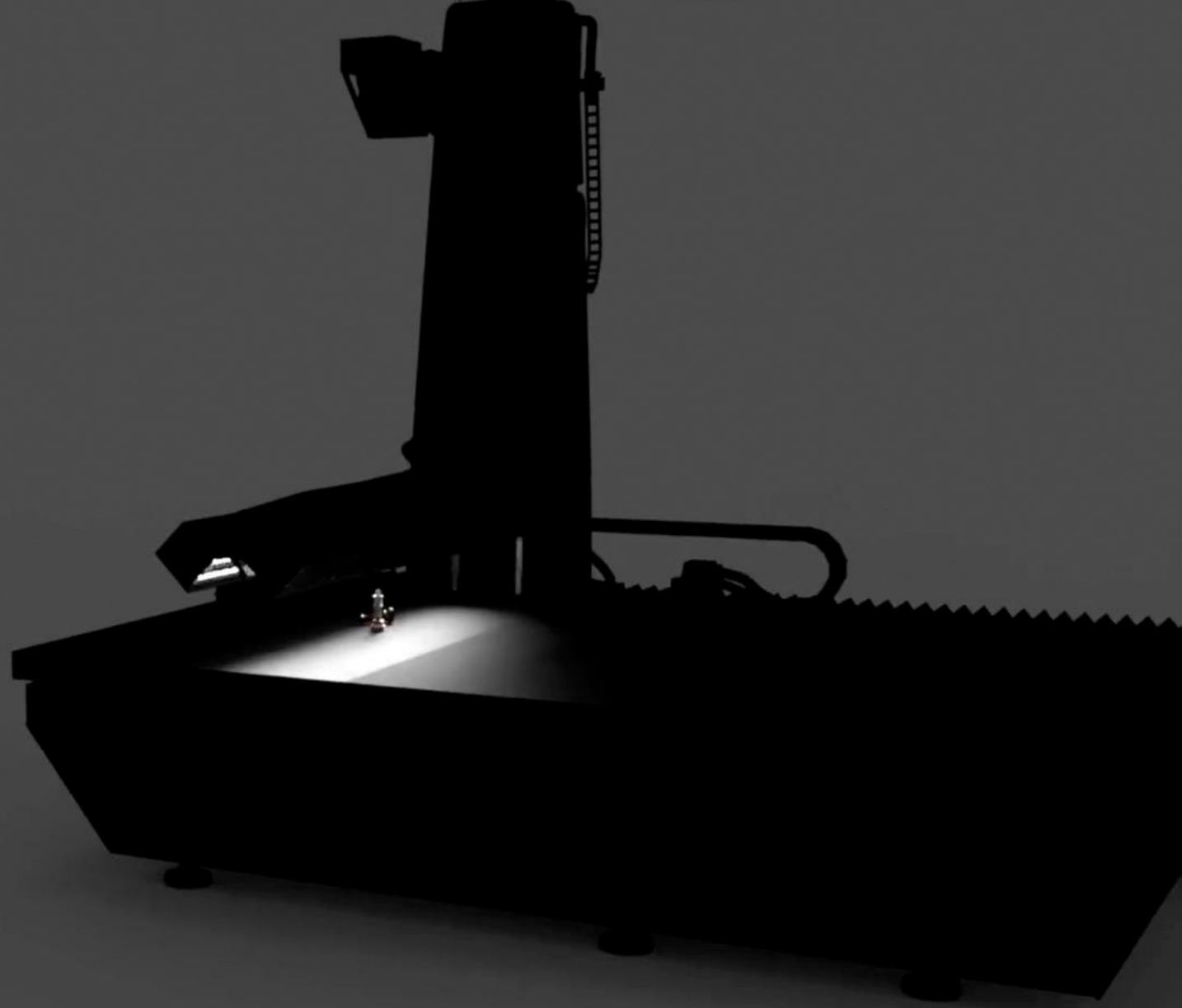
METIS SynchroLight PLUS

(Patent protected technology)

METIS SynchroLight PLUS

(Patent protected technology)





Benefits over standard SynchroLight:

- 8 Independent light sources
- Much faster
- Completely automated
- Provide superior light uniformity

- Very stable technology
  - Tested intensively
  - Already delivered to customers
  - Demo units already available in Europe, USA, Asia

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METIS PBR Workflow

(PBR = Physically Based Rendering)

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What is PBR ?

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What is PBR ?

It's actually a very powerful tool aimed to marketing your product !

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How to use METIS PBR ?

- *You need to scan your product, and provide the PBR MAPs generated by the METIS software to a «3D Artist» or a Web Designer !*
  A «3D Artist» is a Designer skilled in using rendering applications.

- *The 3D Artist will be able to import the PBR MAPs into a 3D scene of your choice. Or the PBR MAPs could be used for your website / marketplace (WebGL, HTML5,…).*

- *This way suitable results can be generated with relatively little effort (and therefore with limited cost) !*

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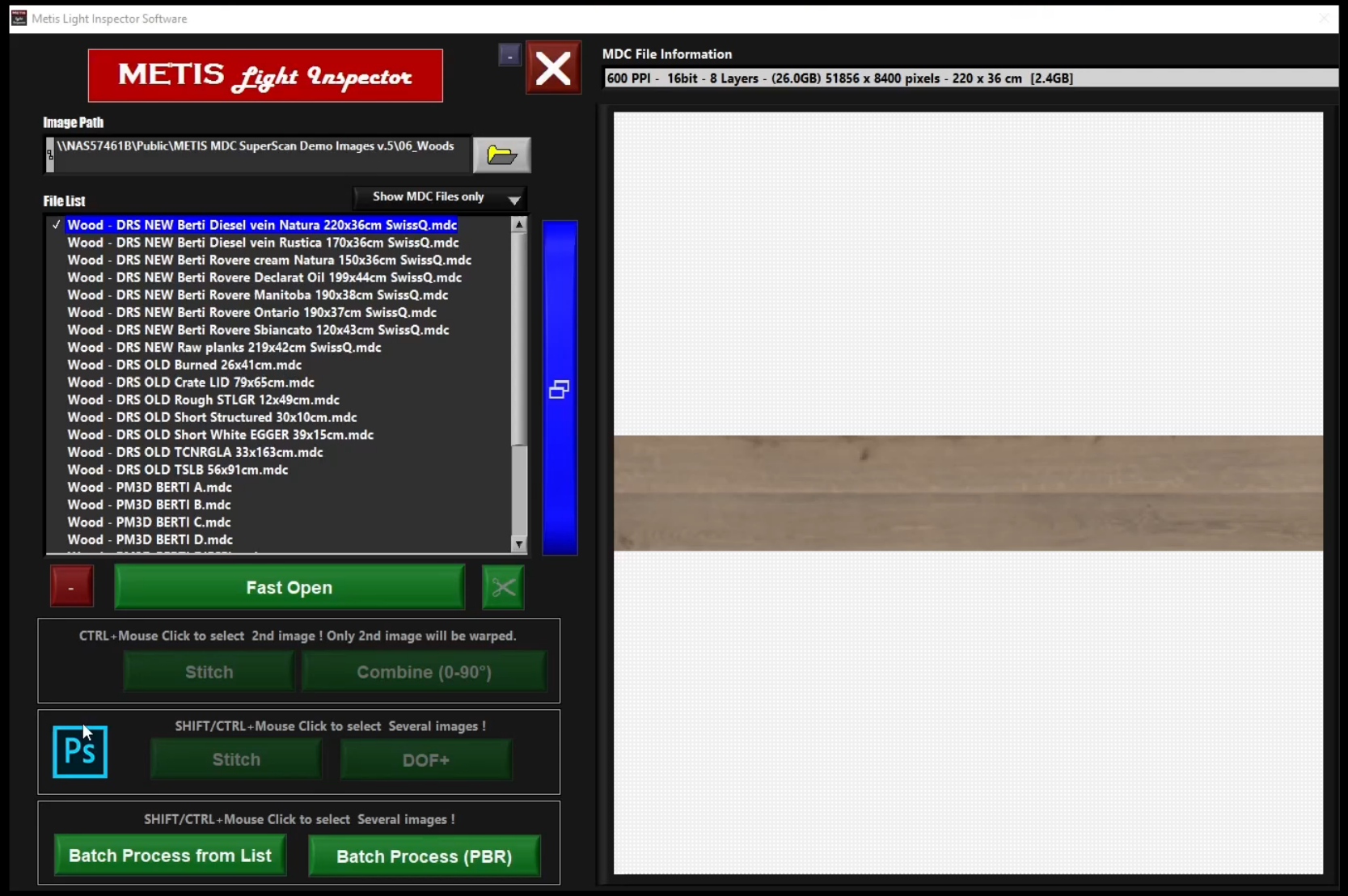
How easy is METIS PBR ?

Next 3 videos show basic rendering preview directly from the METIS software and just after completing scanning the materials.


Metis Light Inspector Software
METIS Light Inspector
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Show MDC Files only
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Wood - PM3D BERTI A.mdc
Wood - PM3D BERTI B.mdc
Wood - PM3D BERTI C.mdc
Wood - PM3D BERTI D.mdc
Fast Open
CTRL+Mouse Click to select 2nd image ! Only 2nd image will be warped.
Stitch
Combine (0-90°)
SHIFT/CTRL+Mouse Click to select Several images !
Stitch
DOF+
SHIFT/CTRL+Mouse Click to select Several images !
Batch Process from List
Batch Process (PBR)
MDC File Information
600 PPI - 16bit - 8 Layers - (26.0GB) 51856 x 8400 pixels - 220 x 36 cm [2.4GB]

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How PBR MAPs look like and how they actually works ?

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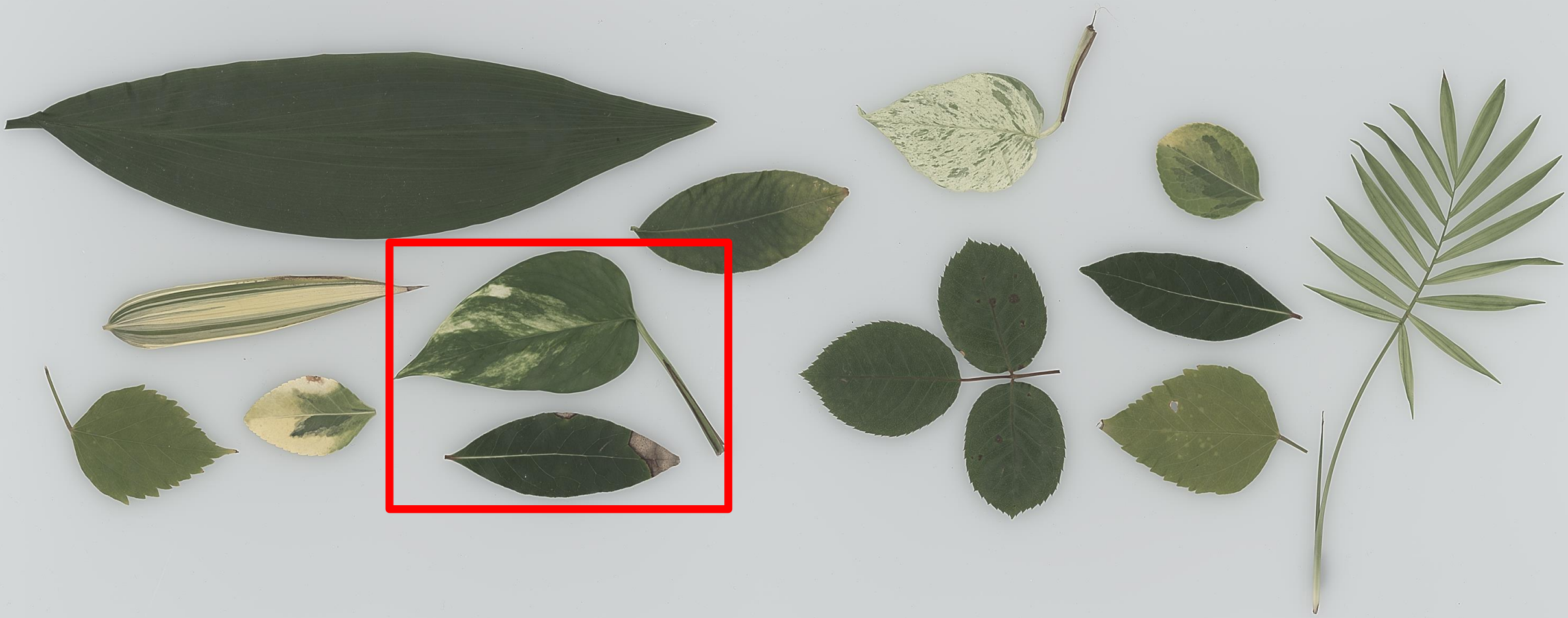
Each PBR MAP describe specific optical material properties that are required by the rendering software in order to provide a photorealistic outcome.



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METIS scanners are capable of estimating various material reflectance properties (for SVBRDF). The following PBR MAPs can be exported:

Base Color MAP

Roughness MAP

Metalness MAP (baked)

Normal MAP

Alpha MAP

Displacement MAP

Transmission Color MAP

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In the next video we show how METIS PBR MAPs are generally used within a shader (in a typical rendering software).

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Why METIS PBR workflow should be considered an innovation for the Decor market ?

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How Decor marketing material is created today ?

1. ***Photographically (not by rendering)***

   Therefore by capturing the reality. But this is extremely expensive and slow, specially for large assets as for example building and then photographing an entire living room for a flooring catalogue ! There are also limitations as 3D viewing or special effects cannot be pictured and requires instead a virtual environment.

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How Decor marketing material is created today ?

2. ***By Rendering (which is already mostly PBR based)***

   Until now 3D artists in the Decor (but also in other industries) had no access to a suitable PBR scanner, in particular for large resolution/format materials. As a consequence they had to manually and artistically create the missing information (the missing PBR MAPs) and this not only requires high skills but also long production times and have a high impact on the cost for creating marketing material.

   When we added 3D capabilites into our scanners and later also glossiness we started to see the possibiluty for using our scanners also for PBR. But still the 3D artist had to adapt our MAPs (aimed primarly to Decor application and therefore printing/embossing) to their needs and therefore the workflow was still relatively complex and far from optimal.

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Why METIS PBR workflow should be considered an innovation for the Decor market ?

By building a complete PBR workflow into our scanners, a workflow that is smooth, fast, reliable and highly compatible with the major rendering software we are allowing our customers (and the 3D artist) to cut drammatically production times and the cost for creating marketing material.

And because the entire workflow become much easy to handle it's even possible for our customer to bring it back (or at least a part of it) within their design department

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Testimonials and rendering samples

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ITEWE

(Hong Kong)

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And a few renderings made by METIS