OpenDICE Command Line (v3.0) User Manual

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This version of OpenDICE implements the FADGI v2023. It is a command line version of the GUI-based OpenDICE v3.0.





Figure 1. OpenDICE command line version (Windows and Mac)

In the interface (Figure 1), the command line consists of the software name, OpenDICECommand, and a set of parameters:

1. Material specifications (Config\_materials.xlsx), please refer the GUI version manual.
2. Material selection (specified with a numeric value)
Bound Volumes: General Collections ----------------------------------------------------1
Bound Volumes: Rare and Special Materials--------------------------------------------2
Documents (Unbound): General Collections --------------------------------------------3
Documents (Unbound): Manuscripts and Other Rare and Special Materials ------4
Oversize Items: Maps, Posters, and Other Materials -----------------------------------5
Newspapers ----------------------------------------------------------------------------------6
Prints and Photographs ---------------------------------------------------------------------7
Paintings and Other Two-Dimensional Art (other than prints) -----------------------8
Photographic Transparencies: 35mm to 4"x5" ------------------------------------------9
Photographic Transparencies: >4"x5" ----------------------------------------------------10
Photographic Negatives: 35mm to 4"x5" -----------------------------------------------11
Photographic Negatives: > 4"x5" --------------------------------------------------------12
X-ray Film: (Radiographs) ----------------------------------------------------------------13
Printed Matter, Manuscripts, and Other Documents on Microfilm ------------------14
3. FADGI star criteria selection (specified with a numeric value):

\* (1); \*\* 2; \*\*\* (3); \*\*\*\* (4)

4. Target image name (dice.tiff)

5. For the target options (specified with a numeric value):

ColorChecker SG ----------------------------------------------------------------------------1
DICE ------------------------------------------------------------------------------------------2
ObjectDICE(small) --------------------------------------------------------------------------3
FADGI 19264 --------------------------------------------------------------------------------4
FADGI 19264 Commercial ----------------------------------------------------------------5
NGT (manual) -------------------------------------------------------------------------------6
DT-NGT --------------------------------------------------------------------------------------7
IT8.7/2 (manual) -----------------------------------------------------------------------------8
UTT ----------------------------------------------------------------------------------------9
Negative/Positive Small 35mm ------------------------------------------------------------10
Negative Large 4x5 --------------------------------------------------------------------------11
Negative Small 35mm 2 ---------------------------------------------------------------------12
Negative Middle 120x120 -------------------------------------------------------------------13
IT8.7/1 (manual) ------------------------------------------------------------------------------14

6. Target profile name (Profile\_DICE\_4\_D50\_GM.xlsx), please refer the GUI version manual.

The above six parameters are required! The following five parameters are optional, but some of them must be specified together, i.e., they cannot be used individually.

7. Export results (-e)
If not specified, then the software exports only luminance results; if it’s specified, then all RGB components will be exported.

8. & 9. Manual ROI detection parameters (-m corners.xlsx)

For more accurate results or fast processing, this option is recommended! An example with four corner points is specified as following:


The software exports the results as the GUI-based version in an Excel file. If the Configure\_materials file is specified in txt format (for Mac system), then all the profiles should also be in txt format.



10. & 11. These two parameters are specifically for the FADGI 19264 Commercial target (-t FADGI\_Manufacturer.xlsx), then the target profile name is replaced by the manufacture measurements.