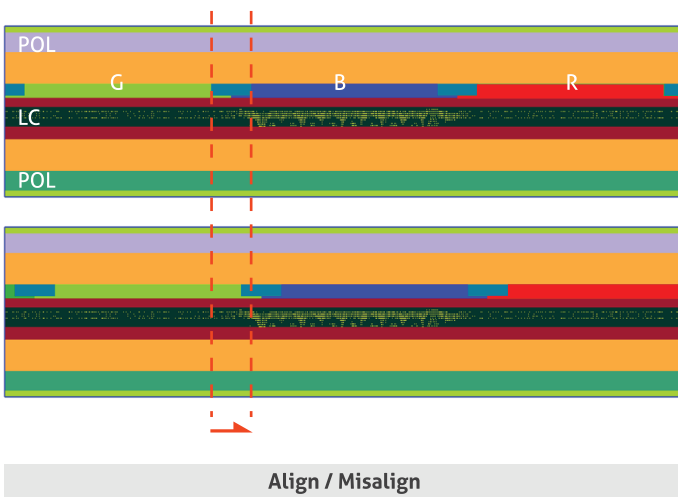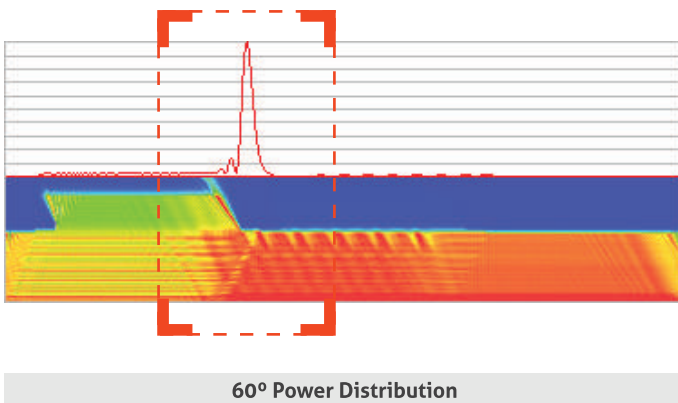# LCDMAX

ROBUST OPTIC SIMULATOR
for LCD with Real Manufacturing Process Implemented

At oblique incident of light, multi-dimensional propagation of light can be simulated with high accuracy.
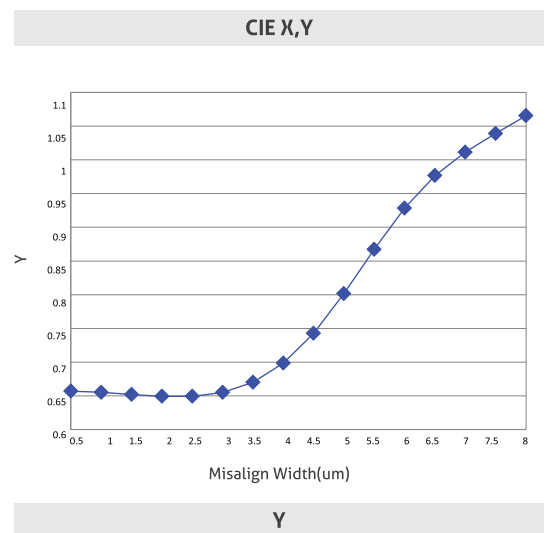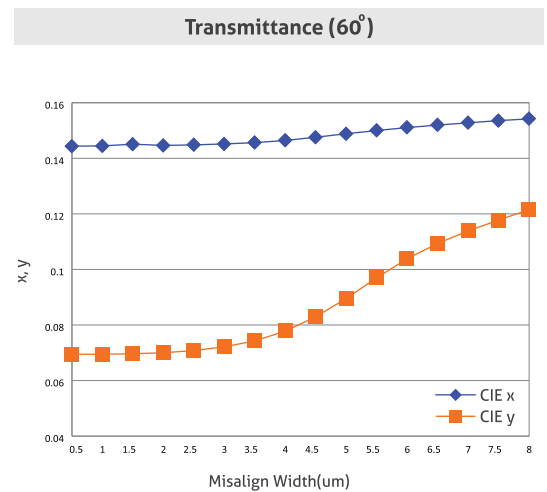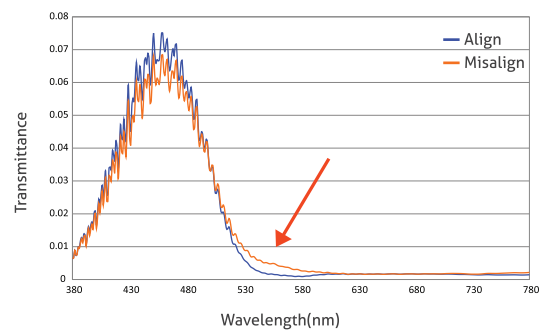
In case of aligned and misaligned design, the optic characteristic can be calculated with user-friendly simulation environment.
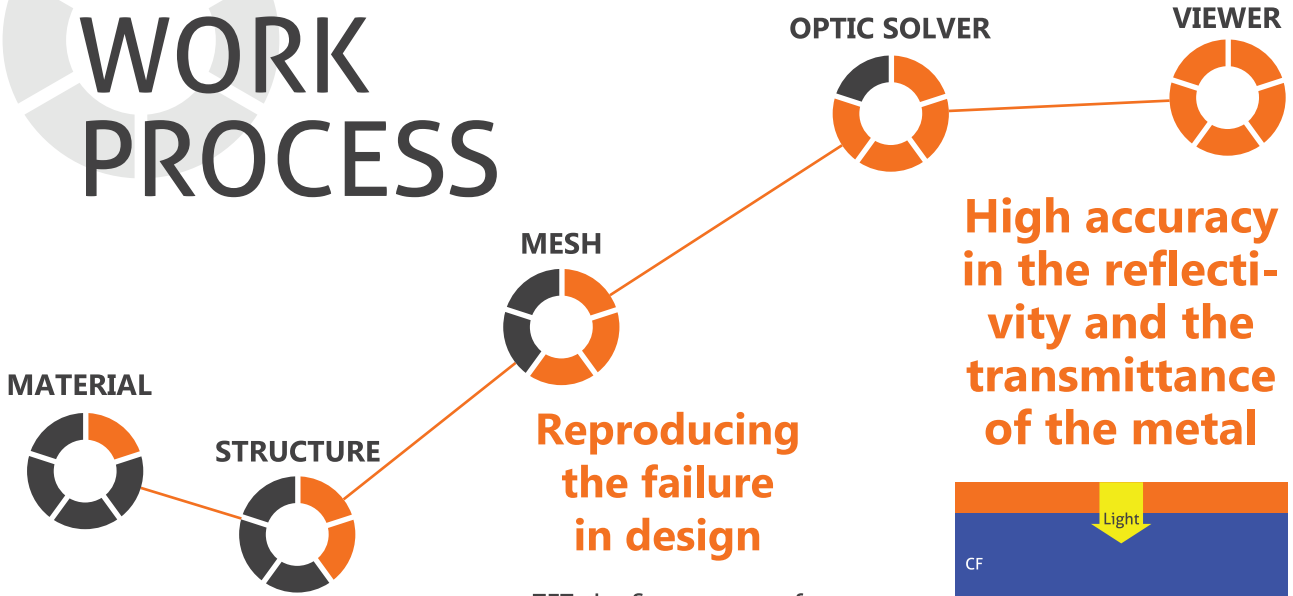

Align / Misalign

At the high incident angle, the light leakage under misaligned structure can be observed.

60° Power Distribution

The difference in transmittance, power distribution, and CIE between aligned and misaligned structure can be analyzed.

Transmittance (60°)

CIE X,Y

Y

WORK PROCESS

MATERIAL

STRUCTURE

MESH

OPTIC SOLVER

VIEWER

Various light behavior in LCD

LCDMAX shows graphically with high accuracy the behavior of light in complicated structure and in anisotropic material.
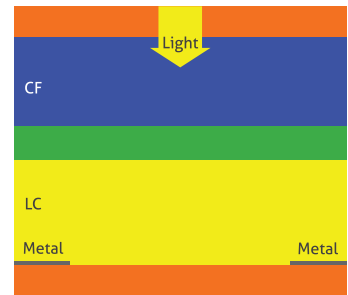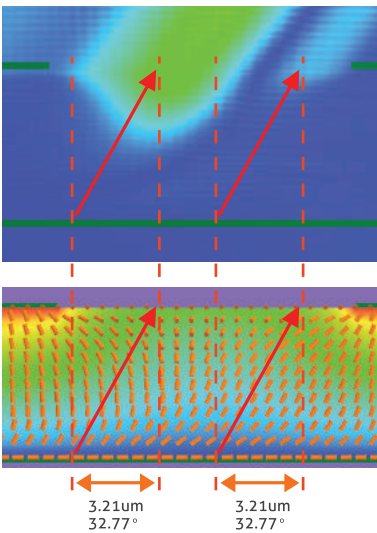

3.21um
32.77°

3.21um
32.77°

Reproducing the failure in design

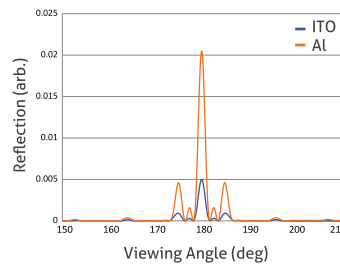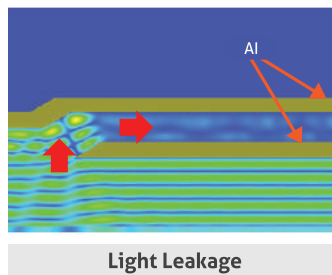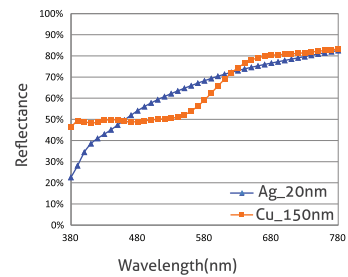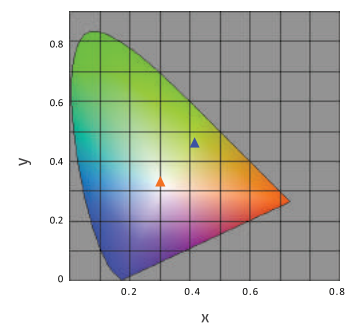TFT, the fine pattern of electrode, and micro structure in LCD gives the complicated optic phenomenon.

ITO
Al

Reflection (arb.)

Viewing Angle (deg)

Diffraction

Al

Light Leakage

High accuracy in the reflectivity and the transmittance of the metal

Light

CF

LC

Metal

Metal

Sample Structure

Reflectance

Wavelength(nm)

Ag_20nm
Cu_150nm

Reflectance

y

x

CIE

Contact Us

TEL : +82-70-8707-2500
FAX : +82-31-889-3455
E-mail : display@daouincube.com
URL : www.daouincube.com
Address : 2F, Daou Digital Square, Digital Valley-ro, Suji-gu, Yongin-si, Gyeonggi-do, Korea 448-547

Specification

PLATFORM : IBM – Compatible
PCS : Windows 7
CPU : 4.0GHZ or Better
MEMORY : Minimum 2GB Recommended 4GB or Better
GRAPHIC CARD : OpenGL supported