iView
Requirements and Usage



Providing Remote Viewing of Data Layouts Over a Secure Internet Connection

TEKSCEND PHOTOMASK

iView™: Table of Contents

iView™ Overview	3
CATS Usage	9
EBV Usage	20

iView™: Overview

- iView™ is a web based interface to pattern and jobdeck viewing software resident at Tekscend Photomask US Inc.
- The interface is designed to provide customers with the ability to view jobdeck layouts prior to manufacturing without having to invest in specialized viewing software or training
- Tekscend Photomask US Inc. will complete all necessary account set-up activity and notify the customer when completed
- Modern, HTML5 web-based

iView™: Security

Data is encrypted and viewed with secure authentication

- Standard web SSL through HTML5

Data and user environments are isolated from other users

iView™: Customer Requirements

Client

- A PC with Internet access
- Any modern web browser (Internet Explorer, Microsoft Edge, Firefox, Google Chrome, Safari)

Network

- iView™ does not require the customer to have a static IP
- Customers must be able to connect to **iview.photomask.com** on port **443 (HTTPS)**

iView™: Notification

Upon completion of data preparation, required files will be transferred into customer specific data area:

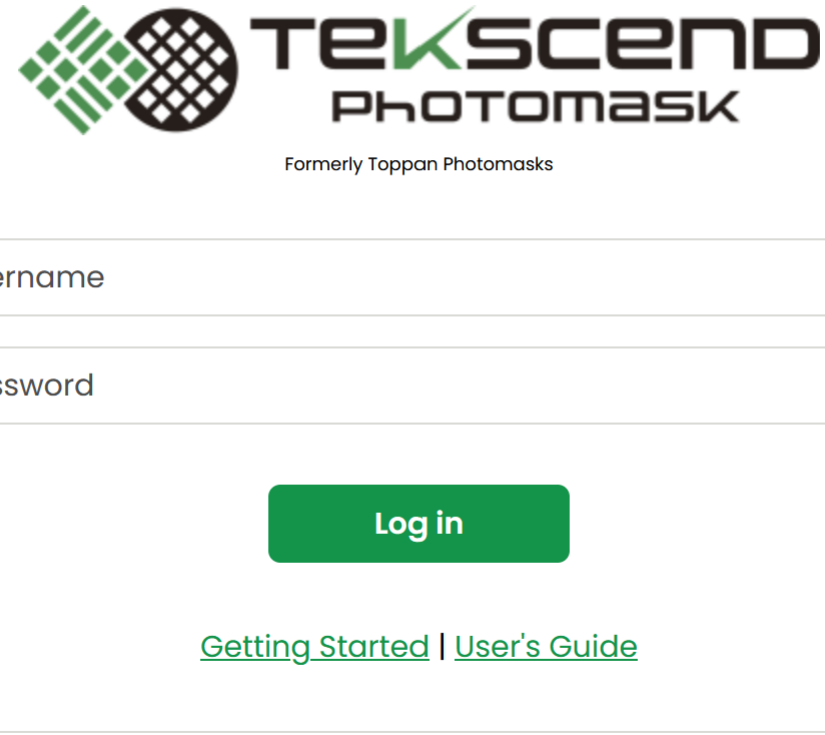
- Jobdeck(s) and associated files
- Source gdsii or Oasis files
- Any requested archive files for overlay comparison

An e-mail notification will be sent with the following information

- Customer, Device and Layers
- Directory location of files
- Listing of files available for viewing
- Tekscend Photomask US Inc. contacts and phone numbers

iView™: Login

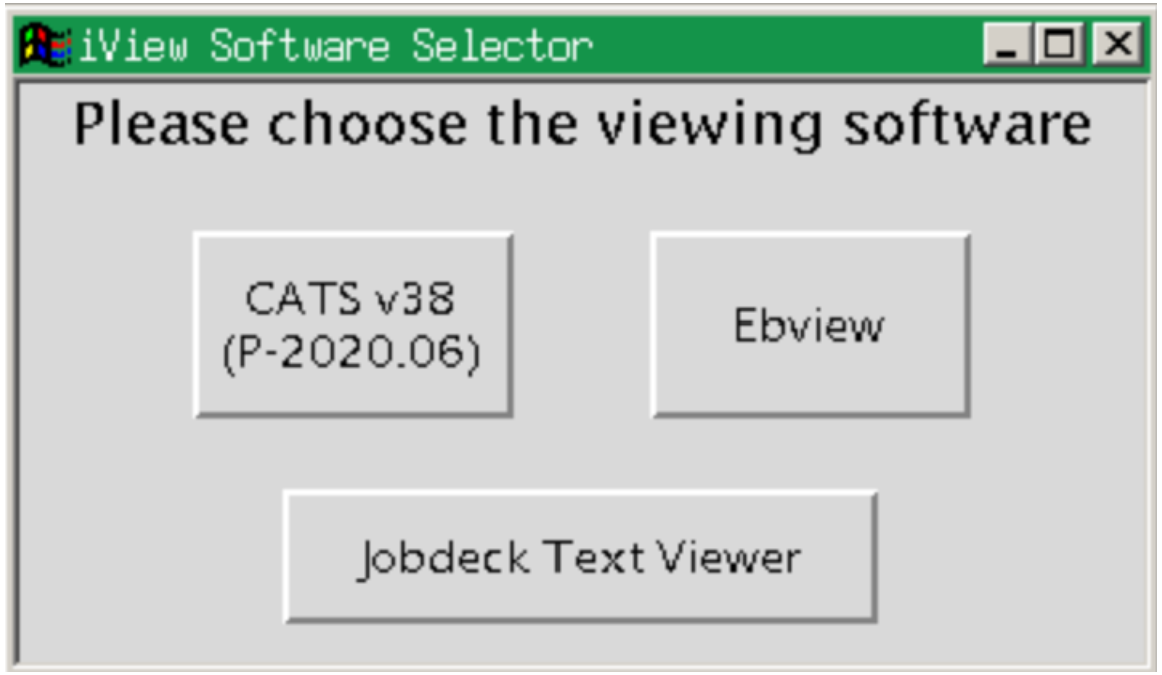
Select “iView HTML5” from the main iView page



Enter your Username and Password and select Log in

iView™: Getting Started

After logging in, choose the preferred viewer. iView supports Synopsys CATS and NCS EB View.



CATS Usage

iView™: Jobdeck Viewing With Synopsys CATS

Synopsys CATS

Fracturing routines fracture data as MEBES stripes, if it is not one solid block, it will break the feature into smaller rectangles and trapezoids

Default jobdeck view settings are:

- The first layer of jobdeck will be displayed.
- Border only / Fill off
- Chrome side up (mirror wafer image)
- Wrong reading
- Unique chips will be displayed with unique color (A-ZZ, where chip A is chip #1 in jobdeck, Chip B is #2, etc.)
- 0,0 origin is lower left corner of glass

CATS: Select Data

Click File -> Open…

In the selection window, click the “Files of Type” Dropdown and select the appropriate file type

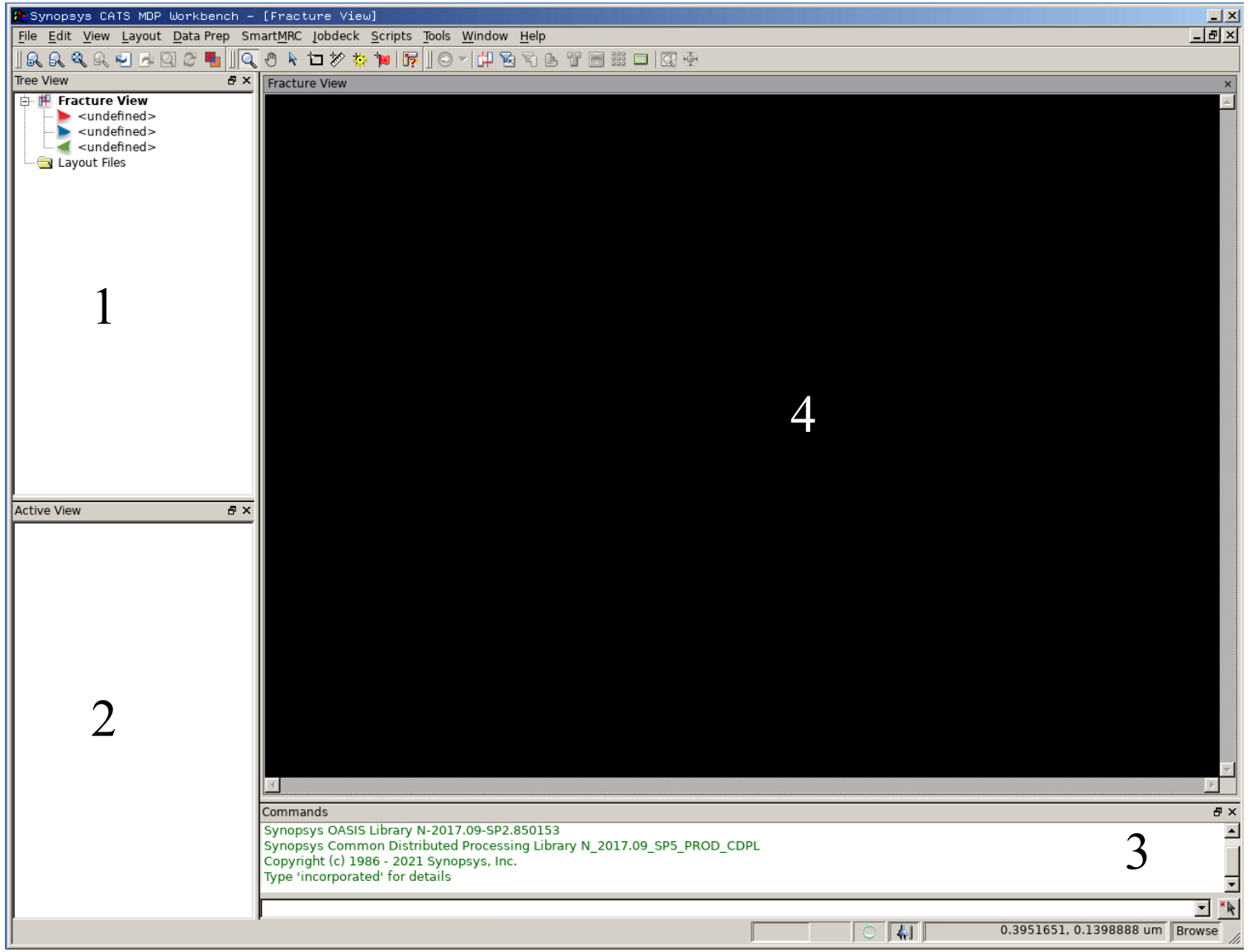
Select the file(s) and click “Open”

CATS: Window Overview

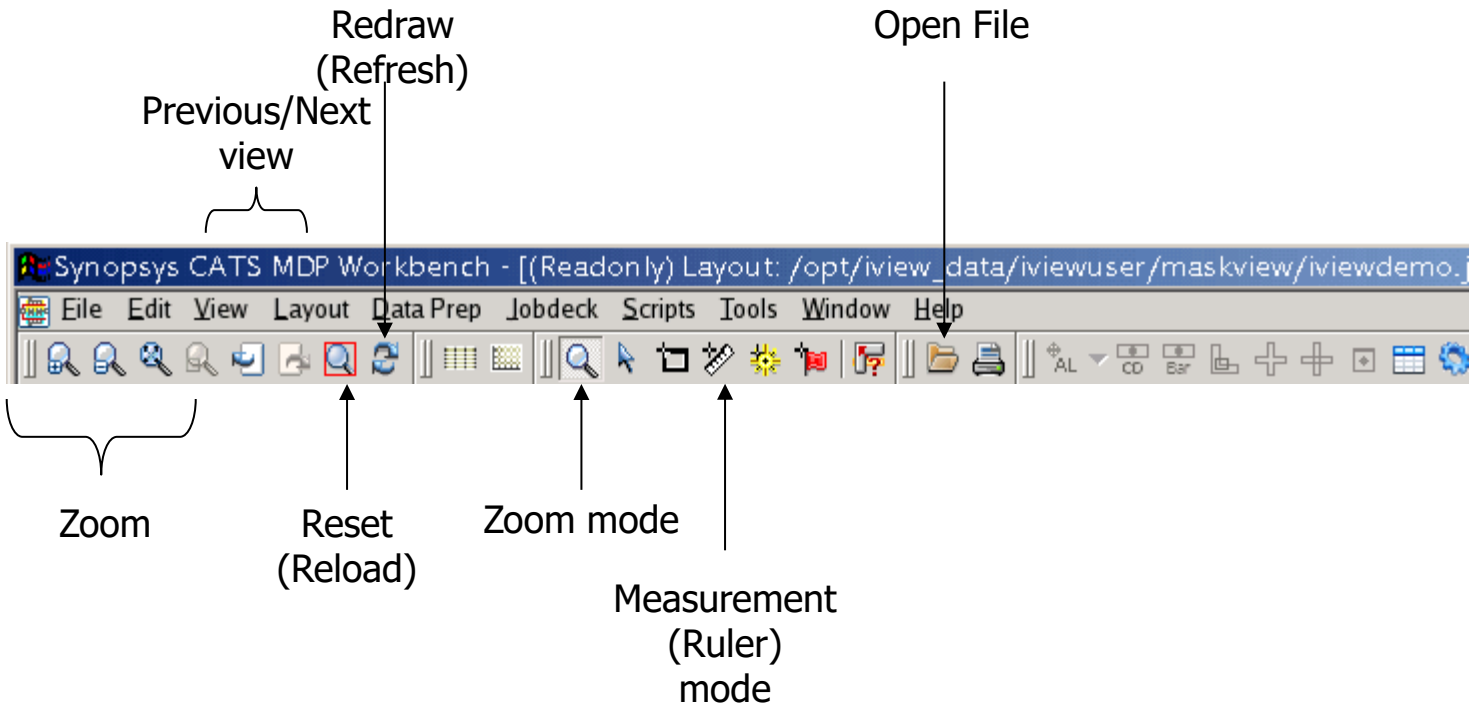
A single window starts with these areas by default:

- Tree View (#1)
  - Data input
- Active View (# 2)
  - Shows data selected for viewing
- Commands (# 3)
  - Drawing commands and information
- Layout (# 4)
  - This is where the data is drawn

CATS: Window Overview

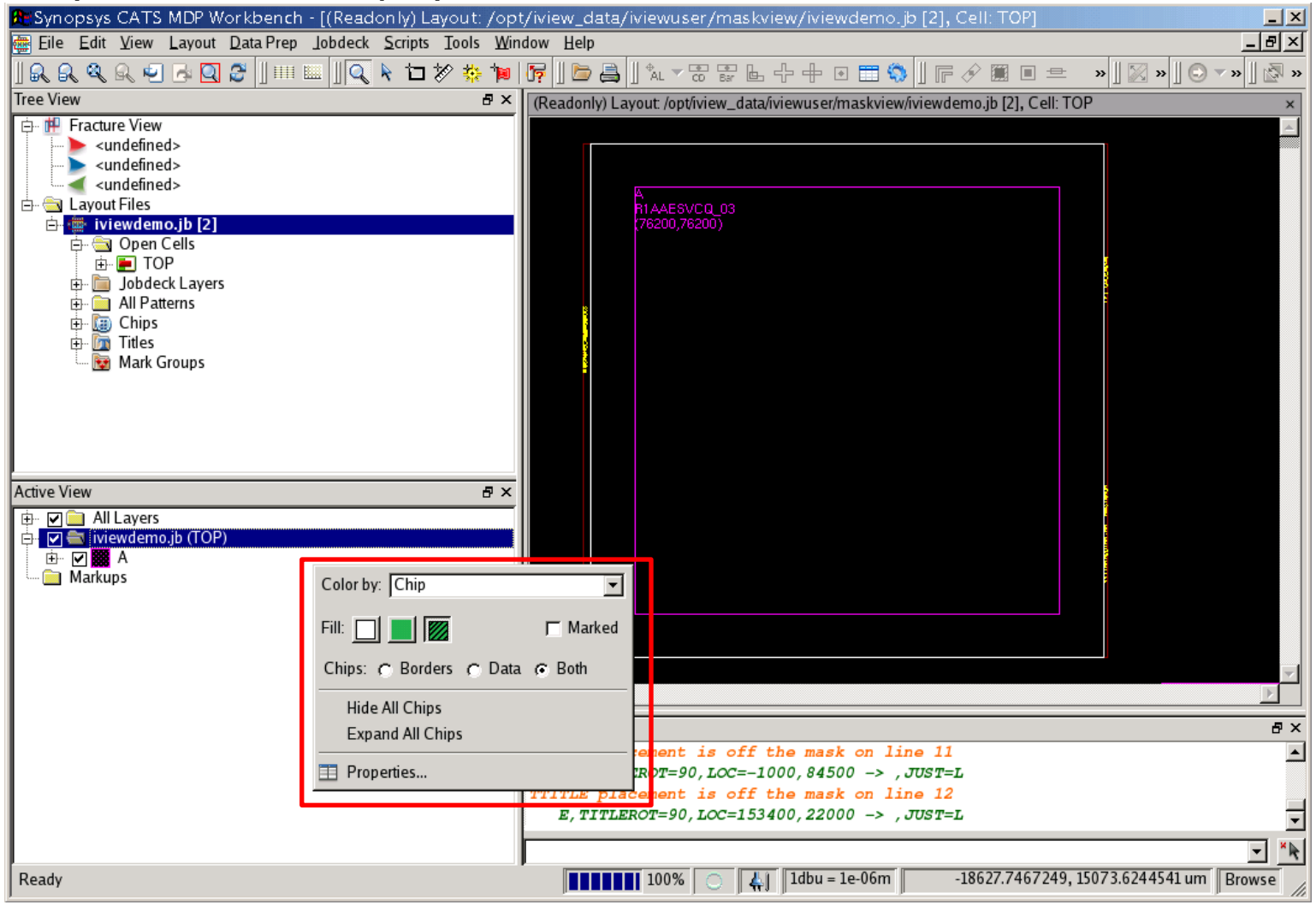


CATS: Window Overview



CATS: Jobdeck Viewing

Right click a jobdeck or layer to set the display mode



CATS: Jobdeck Viewing

To zoom into an area on the layout area:

Move the pointer to above and to the left of the area wishing to zoom into.

Holding the left mouse button, drag a window down and to the right. By releasing the left button, the view will zoom into the window defined.

To zoom out of an area on the layout area:

Move the pointer below and to the right of the area wishing to zoom into.

While holding the left mouse button, drag a window up and to the left, starting from below and to the right of the desired area.

The smaller the window drawn for zooming, the greater the % pull back.

CATS: Jobdeck Viewing

X and Y coordinates and units are in the bottom right of the CATS window

To Measure a feature:

- Change to Measurement(Ruler) mode
  - Shortcut key = "R"
- Click and hold to drag the distance to measure

To measure the center point of the feature, relative to the origin point

- Click Tools -> Options
- In the Options window, click Layout -> Ruler
- Click the checkbox labeled Display Centers
- Click OK
- Re-measure feature(s)
- In addition to distance, the center coordinate will be displayed in the Command area

CATS: Jobdeck Viewing

View 2 files

- Open the primary file
- Open the secondary file as you did primary one
- The jobdeck or other data files will be listed in the Tree View area
- In the Tree View area, right-click a jobdeck under Layout Files to bring up the context menu. Select "Set as Primary" or "Set as Secondary"

CATS: Exit

File -> Exit or close the CATS window

You will exit CATS and return to the software selector

EBV Usage

iView™: Jobdeck Viewing With NCS EBV

NCS Patacon EBV (EBView)

Default jobdeck view settings are:

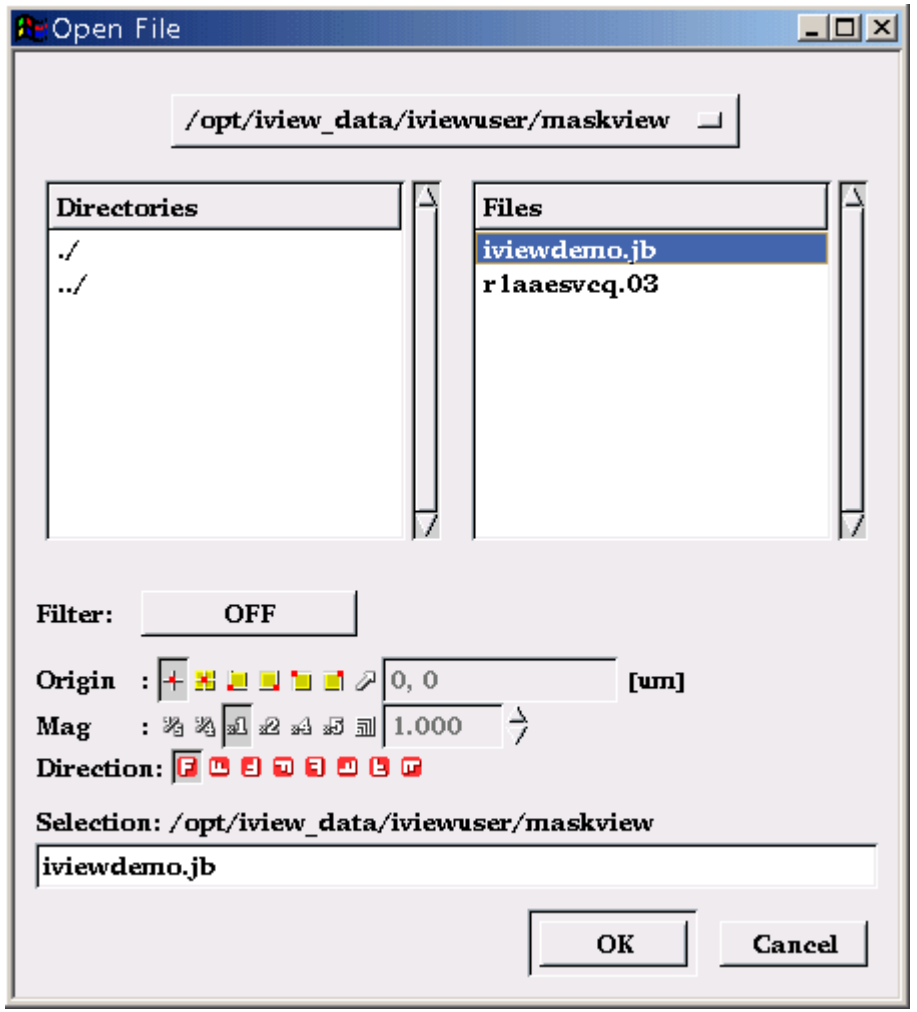
- All selected layers of jobdeck will be displayed.
- Fill mode (only) view
- jobdeck displayed chrome side up (mirror wafer image)
- Wrong reading
- Unique chips will be displayed with unique color (A-ZZ, where chip A is chip #1 in jobdeck, Chip B is #2, etc.)
- 0,0 origin is lower left corner of glass

EBV: Select Data

Click File -> Open…
Select the file(s) and click “OK”
Optionally set
- Origin
- Magnification
- Flip Direction

Multiple files can be selected
Click OK

The “Job Layer Select” menu will appear

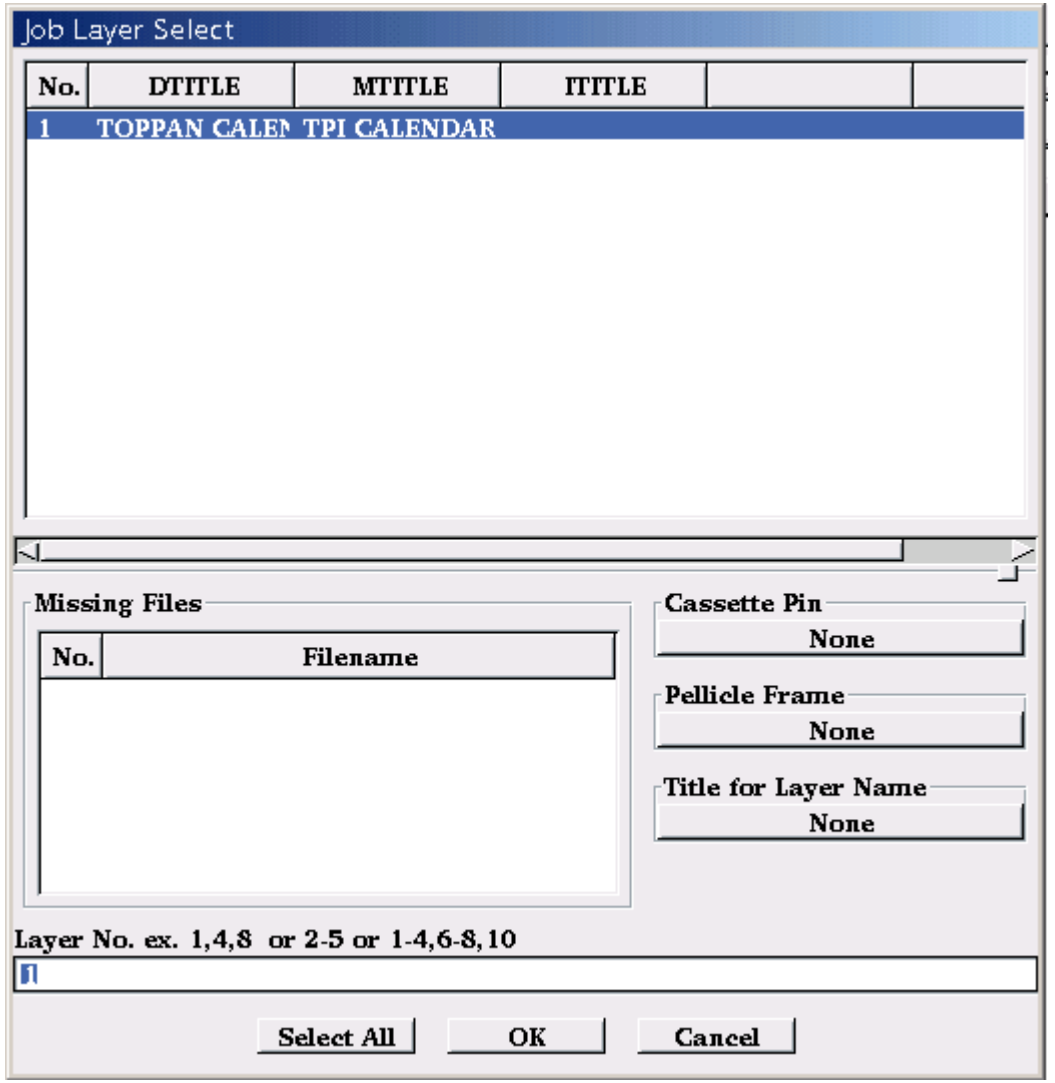


EBV: Select Data

Select the layer(s) to display

- Click in the top window
- List in the bottom blank

Click OK



EBV: Window Overview

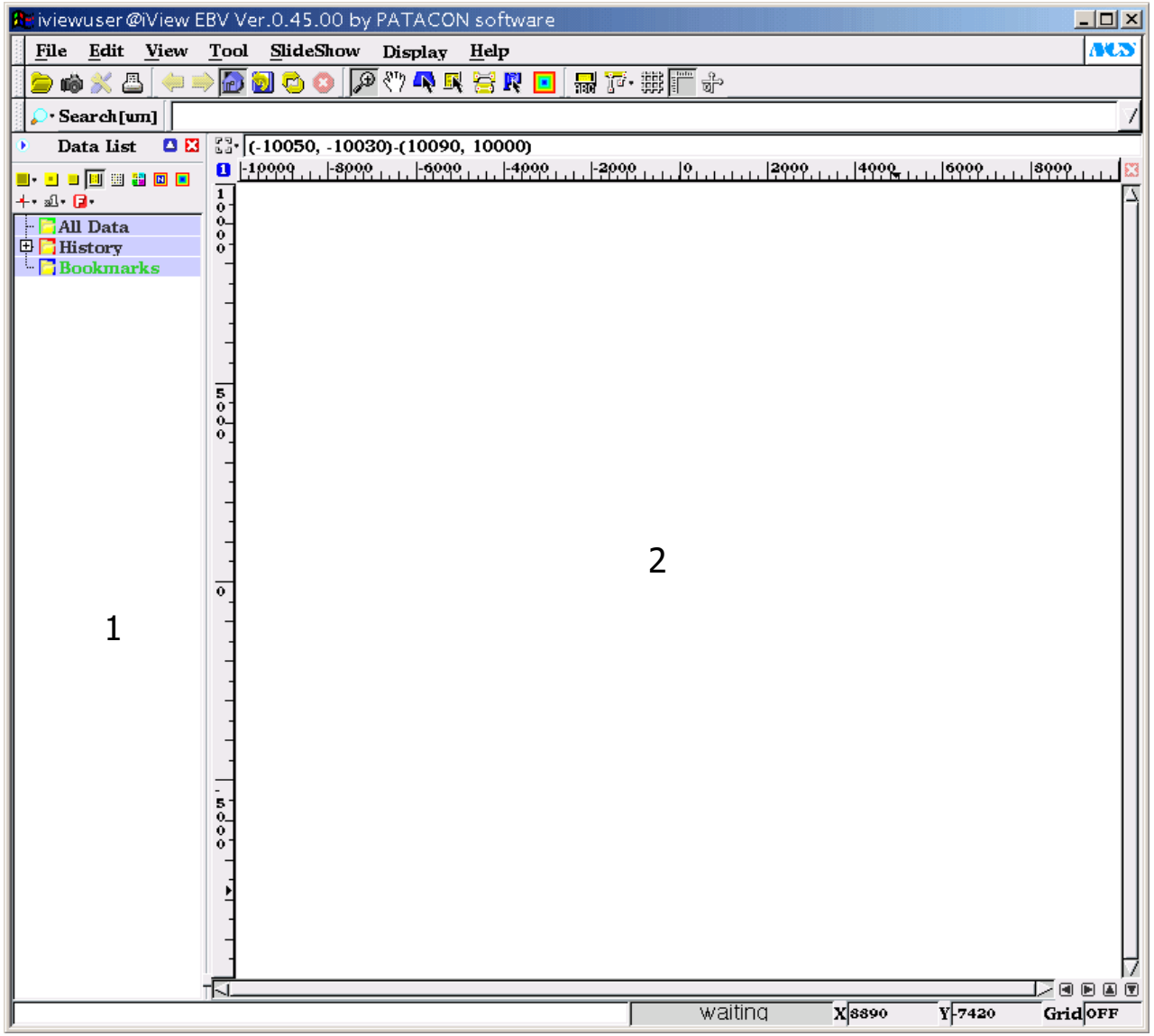
A multi modules window session starts

- Data List (#1)
  - Data list

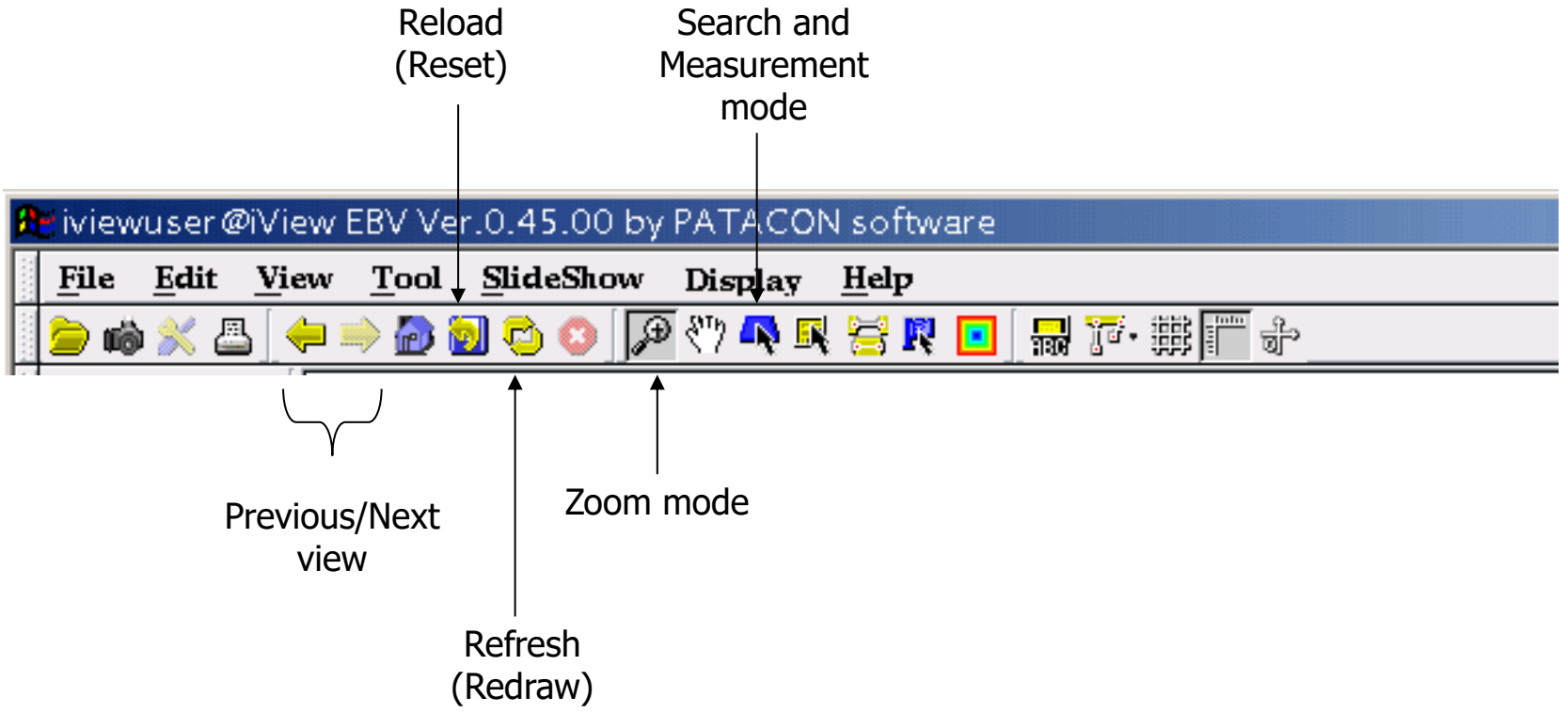
- Layout (# 2)
  - This is where the data is drawn

- Other areas can be added with the Tool menu

EBV: Window Overview



EBV: Window Overview



EBV: Jobdeck Viewing

Common Menu Items

- Reload
  - Resets the viewing screen
- Refresh
  - Redraws figures from current screen view

View Menu

- Open new areas
  - Measure Points
  - Hatching and Color
  - Matching Template

EBV: Jobdeck Viewing

To zoom into an area on the layout area:

Move the pointer to above and to the left of the area wishing to zoom into.

Holding the left mouse button, drag a window down and to the right. By releasing the left button, the view will zoom into the window defined.

To zoom out of an area on the layout area:

Move the pointer below and to the right of the area wishing to zoom into.

While holding the left mouse button, drag a window up and to the left, starting from below and to the right of the desired area.

The smaller the window drawn for zooming, the greater the % pull back.

EBV: Jobdeck Viewing

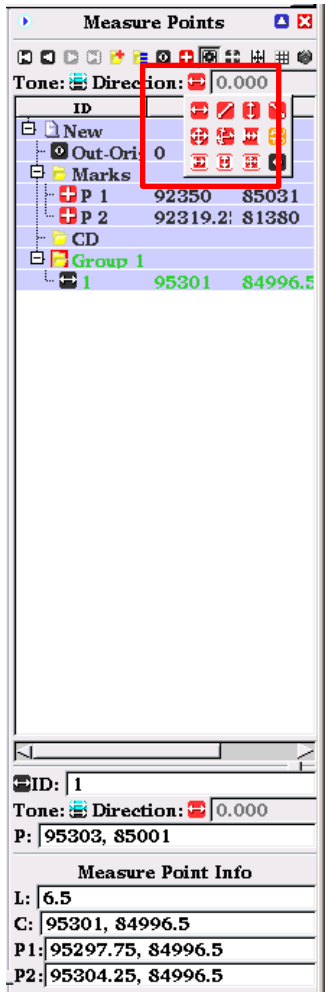
X and Y coordinates and units are in the bottom right of the EBV window

To Measure a feature:

- Enable the Measure Points area
  - Tool -> Measure Points
- Select the direction to measure in degrees
- Middle click and hold to drag the distance to measure

Other measurements automatically at the bottom of the Measure Points area

- Center Point
- Length



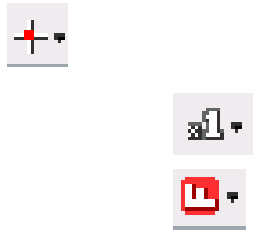
EBV: Jobdeck Viewing

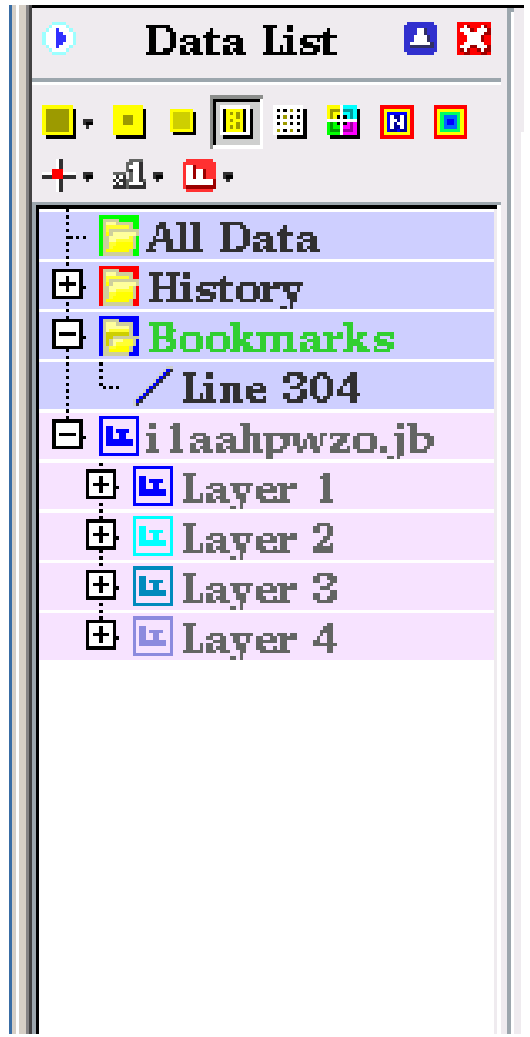
Data List operations

- Expand jobdecks to layers, to data elements
- Right click entry for options
  - Color
  - Fill

Icons

- Origin
- Magnification
- Direction/Flip





EBV: Exit

File -> Exit or close the EBV window

You will exit EBV and return to the software selector



Thank You For Using iView

TEKSCEND PHOTOMASK

https://www.photomask.com