

# Nanolab Equipment Manual



Chapter 4.18

#### Crestec CABL-9510CC

## High Resolution Electron Beam Lithography System

forested - 3840.

#### T. W. Trule

Created CABL-9510CC Electron Beam Lithography System

#### 2.0 European

The Created CABL-9510CC High Resolution Electron Beam Nanolithography System is a high precision e-beam lithography tool (veriter) capable of resolving 10 nanomater features on substrate sizes ranging from 1 cm to 15.2 cm (6") at thickness of 0.01 cm to 0.46 cm. This tool is also capable of handling mask sizes ranging from 5.1 cm (2" mask) to 12.7 cm (5" mask) at standard thicknesses.

#### 3.0 Scope

This document describes the necessary information to prepare samples for exposure, as well as the operation of the Crestec model CABL-9510CC, a High Resolution E-Beam Nariolithography System located in the Marvell Nariotistrication Laboratory (MNL).

#### 4.0 Applicable Documents

- Crestec E-beam Writer under Equipment on the MNL Home Page website.
- 4.2 Crestec CABL-9000C High Resolution Electron Beam Lithography System Instruction Manual at 3M84 bay of the MNL.
- 4.3 Crested Ismo Training Text (Polygon) and Training E-Manuals for editing the imported GDS file, convert and export to opp file to be used on the Crester.

#### 5.0 Definitions & Process Terminology

- Palette Holder Sample holder.
- Field Size Setting Choice of exposing field size: 60 µm, 120 µm, 300 µm, 600 µm or 1200 µm.
- 5.3 Det Choice of number of dots per field: 20,000 dots, 60,000 dots or 240,000 dots on vector scan mode. 4,000 dots can only be used in vector- analog mode. Raster scan mode is fixed at 10,000 dots.
- S.4 Chip Entire design layer or exposure field. Center of the field on the layout is considered as 0, 0 for the X and Y coordinates.
- 5.5 Field Part of the design area. Left bottom comer of the field is considered as 0, 0 for the X and Y coordinates.
- 5.6 Element One design pattern.
- 5.7 CON A condition file created based on the field pattern data.
- 5.8 Export Transfer the condition file in the correct format, so that the Createc pattern generator system can recognize it for pattern writing.

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Lei Shi



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