SPCIMAGERAA Class Def Documentation

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This is a document describing all the possible MATLAB functions for running the SPCIMAGER_AA sensor.

```
% Handle for testing sensors
s = SPCIMAGERAA();

% Set Voltages Supplies and Biasses
% Set voltages ready for connection to the sensor.

% Connect
s.SensorConnect;

% Clock Routing for A
s.SetTimeGateInput('Bin A','ExtClk')
s.SetTimeGateInput('Bin A','OptClk','High')
s.SetTimeGateInput('Bin A','OptClk','Low')
s.SetTimeGateInput('Bin A','PulseGen')

% Clock Routing for B
s.SetTimeGateInput('Bin B','ExtClk')
s.SetTimeGateInput('Bin B','OptClk','High')
s.SetTimeGateInput('Bin B','OptClk','Low')
s.SetTimeGateInput('Bin B','PulseGen')

% Test Pad Routing
s.SetTestPad ('Bin A','Enable')
s.SetTestPad ('Bin B','Enable')
s.SetTestPad ('Bin A','Disable')
s.SetTestPad ('Bin B','Disable')

% Video Timing
% s.SetRegionOfInterest (RowMin, RowMax, ColMin, ColMax)


% Disconnect
s.SensorDisconnect;

% Tidy Up
disp('Destroying Sensor Object');
clear s;
```

```
* Connected to Sensor
* Bin A Time Gate set to External Clock. Pulse Gen is bypassed.
* Bin A Time Gate set to Optical Clock through Pulse Gen.
* Optical Clock offset set high.
* Bin A Time Gate set to Optical Clock through Pulse Gen.
* Optical Clock offset set low.
* Bin A Time Gate set to External Clock through Pulse Gen.
* Bin B Time Gate set to External Clock. Pulse Gen is bypassed.
```

```
 * Bin B Time Gate set to Optical Clock through Pulse Gen.
 * Optical Clock offset set high.
 * Bin B Time Gate set to Optical Clock through Pulse Gen.
 * Optical Clock offset set low.
 * Bin B Time Gate set to External Clock through Pulse Gen.
 * Test Pad for Bin A is now enabled.
 * Test Pad for Bin B is now enabled.
 * Test Pad for Bin A is now disabled.
 * Test Pad for Bin B is now disabled.
 * Disconnected from Sensor
Destroying Sensor Object
```

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