

# MatLab reading IMG binary export format ...

Since the IMG file contains the raw, uncompressed measurement results in binary format, any program reading IMG files needs to split up and format the cube data accordingly.

A Matlab function could look like this ...

```
function [A]=read_IMG(filename, pixeldim)
```

```
    AScRes=pixeldim(1);    % Height
```

```
    BScH=pixeldim(2);      % Width
```

```
    BScV=pixeldim(3);      % # Images
```

```
    fid = fopen(filename,'r');
```

```
    A=fread(fid,inf,'*uint8');
```

```
    fclose(fid);
```

```
    A=reshape(A,BScH,AScRes,BScV);
```

```
    A=permute(A,[2,1,3]);
```

```
    for i=1:BScV
```

```
        A(:,:,i)=fliplr( flipud( squeeze(A(:,:,i)) ));
```

```
    end;
```

```
end
```

PLEX Elite

Scan	Width	Height	# Images
512x512 Mac Cube	512	1536	512
800x800 Mac Cube	800	1536	800
1024x1024 Mac Cube	1024	1536	1024
3 x 3 OCTA Cube	300	1536	300
6 x 6 OCTA Cube 9 x 9 OCTA Cube 12 x 12 OCTA Cube	500	1536	500
15 x 9 OCTA Cube	834	1536	500
HD-Raster Line	1024	1536	1

CIRRUS AngioPlex

Scan	Width	Height	# Images
512x128 Mac Cube	512	1024	128
200x200 Mac Cube 200x200 ONH Cube	200	1024	200
3 x 3 OCTA Cube	245	1024	245
6 x 6 OCTA Cube 8 x 8 OCTA Cube	350	1024	350
HD-Raster Line(s)	1024	1024	1, 5, 21