

Read Dovi (v2) Documentation

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Syntax

```
I = read_dovi(file_path)
I = read_dovi(___,Name,Value)
```

Description

read_dovi_v2 will import image data from C-Dose Research (5.03 or later).

Examples

Read in Cherenkov video frames

```
filename = 'meas_cam0.dovi';
I = read_dovi_v2(filename);
```

Read in Background video frames

```
filename = 'meas_cam0.dovi';
I = read_dovi_v2(filename,'channel','bkgd');
```

Read in cumulative Cherenkov image

```
filename = 'meas_cam0.dovi';
I = read_dovi_v2(filename,'cumulative',1);
```

Read in first 10 Cherenkov video frames

```
filename = 'meas_cam0.dovi';  
I = read_dovi_v2(filename,zrange,[1 10]);
```

Input Arguments

file_path

char array or string containing the path/file name to the .dovi header file corresponding to the data wish to be read in.

Name-Value Arguments

channel - 'chkv' (default) | 'bkgd' | 'custom'

Determines whether the Cherenkov or Background image(s) are read in. If data was acquired in C-Dose Research 'Custom' mode, use 'custom'.

zrange - two-element vector

Selects the range of frames to be read in. By default, all frames will be read in.

cumulative - 0 (default) | 1

Determines whether the 8-bit video frames (0) are read in, or the 32-bit cumulative image.

Output Arguments

I - uint8 or uint32 array, 2D or 3D

2D or 3D array containing image data. If the cumulative option is set to 0 (default), I will be a (m x n x z) uint8 array containing z frames of (m x n) image data. If the cumulative option is set to 1, I

will be a (m x n) uint32 array containing the cumulative image data.

This document was edited using StackEdit (stackedit.io)