

# NikonD1\_TreeView.vi

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## Connector Pane



## Example1.vi

This is the example vi to show how to snap an image from the camera, transfer it to the computer and opens this image file and display it. It uses some IVision LabVIEW toolkit vis for reading image file and displaying, so you need to have either licensed IVision toolkit or download the demo version from:

<http://www.hytekautomation.com/Products/IVision.html>

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## Connector Pane



## NikonD1\_AcquireAll.vi

This vi acquire all images from the current camera directory. You should set the image path first before using this vi. The directory and image name prefix are set in "NikonD1\_SetFilePath.vi". The software will automatically increment the index of the image and append to image name prefix.

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## Connector Pane



## NikonD1\_CamSnap.vi

This vi acquires an image and transfers to the computer. Image directory and name is given by the NikonD1\_SetFilePath.vi. The software will automatically increment the image indexes and appends to the given prefix name. The return Image Name Out returns the whole image path.

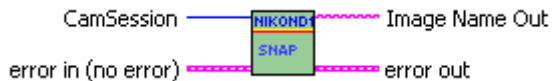
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## Connector Pane



## NikonD1\_CloseCamSession.vi

This vi closes the camera session. The camera index starts at 1.

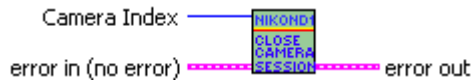
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## Connector Pane



## NikonD1\_CloseModule.vi

This vi exits the software module. You only call this vi when you want to totally exit the NikonD1 software.

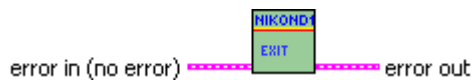
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## Connector Pane



## NikonD1\_EnumerateEnumCap.vi

This vi enumerate the enum capabilities. This is a low level vi.

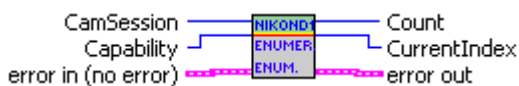
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## Connector Pane



## NikonD1\_EnumerateSource.vi

This vi enumerate the device sources. This vi needs to be called first when open camera session.

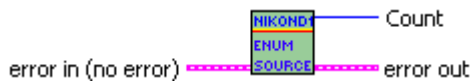
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### Connector Pane



## NikonD1\_GetBatteryLevel.vi

This vi gets the battery level.

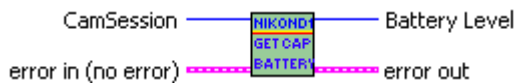
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### Connector Pane



## NikonD1\_GetBooleanCap.vi

This vi gets the boolean capabilities of the camera, such as IsAlive, LockFocus, LockExposure, LockCamera, LockShutterSpeed, LockAperture, EAsyExposureComp and LCDBAckLight etc.

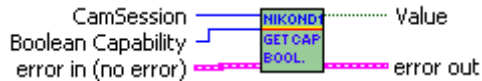
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## Connector Pane



## NikonD1\_GetEnumCap.vi

This vi gets the capability value of camera settings such as MediaType, CurrentDirectory, ColorSpace, FlashMode, FileType, CompressionLevel, ExposureMode, ShutterSpeed, Aperture, Sensitivity, WBMode, FocusAreaMode, FocusPreferredArea, ImageSize, CWMeteringDiameter, ZoomAperture and ShootingSpeed etc. It returns the current setting and all available settings values.

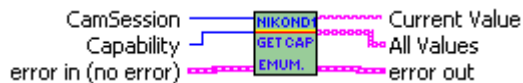
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## Connector Pane



## NikonD1\_GetFloatValueCap.vi

This vi gets the float value capability of camera settings such as ExposureStatus and FocalLength etc.

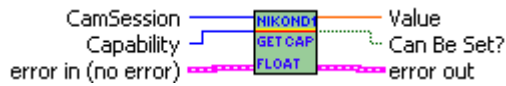
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## Connector Pane



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## NikonD1\_GetRangeCap.vi

This vi gets the range capabilities of the camera, such as ExposureComp, WB TuneAuto, WB TuneIncandescent, WB TuneFluorescent, WB TuneSunny, WB TuneFlash, WB TuneShade, WB TuneCloudy and ShootingLimit etc.

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## Connector Pane



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## NikonD1\_GetUnsignedCap.vi

This vi gets the unsigned capability value of camera settings such as StoredBytes, CFStatus, FlashStatus, MeteringMode and FocusMode etc.

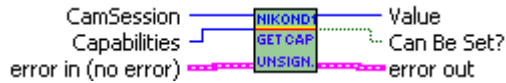
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## Connector Pane



## NikonD1\_InitModule.vi

This vi initiates the software module. This vi must be called first before using any other functions.

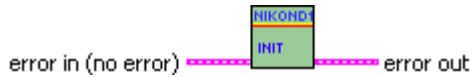
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## Connector Pane



## NikonD1\_OpenCamSession.vi

This vi opens camera session. The index starts at 1.

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## Connector Pane



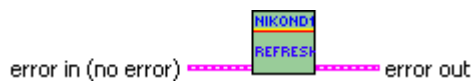
## NikonD1\_Refresh.vi

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### Connector Pane



## NikonD1\_RemoveAll.vi

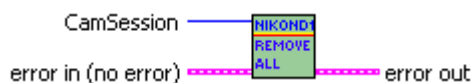
This vi deletes all images from the current camera directory.

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### Connector Pane



## NikonD1\_SelectSource.vi

This vi selects the device source. For now it's assuming the device 1. This is low level vi.



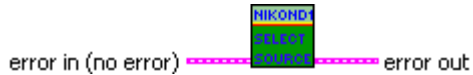
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## Connector Pane



## NikonD1\_SetBooleanCap.vi

This vi sets the boolean capabilities of the camera, such as IsAlive, LockFocus, LockExposure, LockCamera, LockShutterSpeed, LockAperture, EASYExposureComp and LCDBackLight etc.

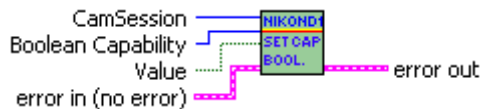
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## Connector Pane



## NikonD1\_SetDebug.vi

This vi turn on or turn off dll debug mode. Only for internal use. By default should turn debug mode off.

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## Connector Pane



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## NikonD1\_SetEnumCap.vi

This vi sets the capability value of camera settings such as MediaType, CurrentDirectory, ColorSpace, FlashMode, FileType, CompressionLevel, ExposureMode, ShutterSpeed, Aperture, Sensitivity, WBMode, FocusAreaMode, FocusPreferredArea, ImageSize, CWMeteringDiameter, ZoomAperture and ShootingSpeed etc. The "Index" control represents the value you want to set. Please to check the corresponding value for the index in "NikonD1\_GetEnumCap.vi".

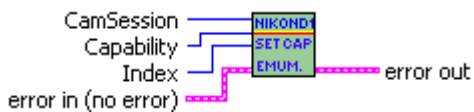
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## Connector Pane



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## NikonD1\_SetFilePath.vi

This vi sets the image file path that includes file directory and file name prefix without image type ending. For example C:\temp\D1Image, you don't have to give D1Image.jpg for example. The software will internally decide what type it is depends on your camera settings.

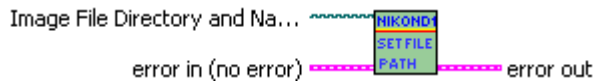
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## Connector Pane



## NikonD1\_SetFloatValueCap.vi

This vi sets the float value capability of camera settings such as ExposureStatus and FocalLength etc. Not all capabilities are settable, you need to check with "NikonD1\_GetFloatValueCap.vi".

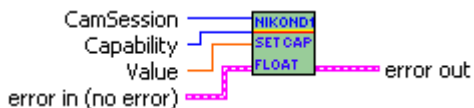
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## Connector Pane



## NikonD1\_SetRangeCap.vi

This vi sets the range capabilities of the camera, such as ExposureComp, WB TuneAuto, WB TuneIncandescent, WB TuneFluorescent, WB TuneSunny, WB TuneFlash, WB TuneShade, WB TuneCloudy and ShootingLimit etc. Not all capabilities are settable, please check with "NikonD1\_GetRangeCap.vi".

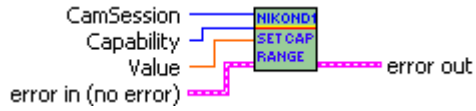
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## Connector Pane



## NikonD1\_SetUnsignedCap.vi

This vi sets the unsigned capability value of camera settings such as StoredBytes, CFStatus, FlashStatus, MeteringMode and FocusMode etc. Not all capabilities are settable, you need to check with "NikonD1\_GetUnsignedCap.vi".

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