



# NCTech ColourCloud for Faro SCENE User Manual



# Introduction

The NCTech ColourCloud for FARO SCENE app integrates NCTech ColourCloud technology within FARO SCENE from version 6.0.

The App can be downloaded free of charge from FARO 3D App Centre or from the NCTech website [www.nctechimaging.com/downloads/](http://www.nctechimaging.com/downloads/)

Using ColourCloud capability integrated into FARO SCENE further streamlines user workflow by enabling automatic point cloud colourisation (single scan and/or batch process) by using NCTech iSTAR RAW image data without needing to leave the SCENE workflow environment.

Therefore, NCTech iSTAR cameras and ColourCloud for FARO SCENE application provides HDR imagery for improved performance, reduced time on-site and efficient office based workflow.

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# Installation

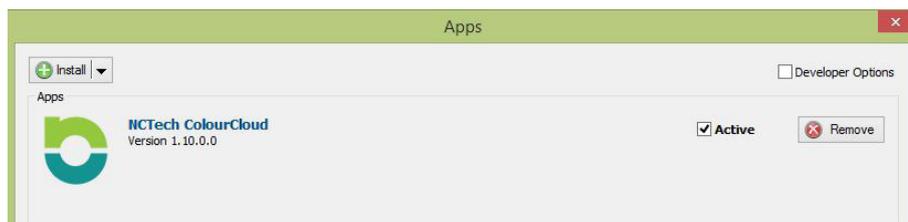
NCTech ColourCloud App requires SCENE 6.0 or later.

If you have a previous version of the App installed, remove this version first with the App Manager of SCENE (available under Tools>Apps)

Install the downloaded App by doing one of the following:

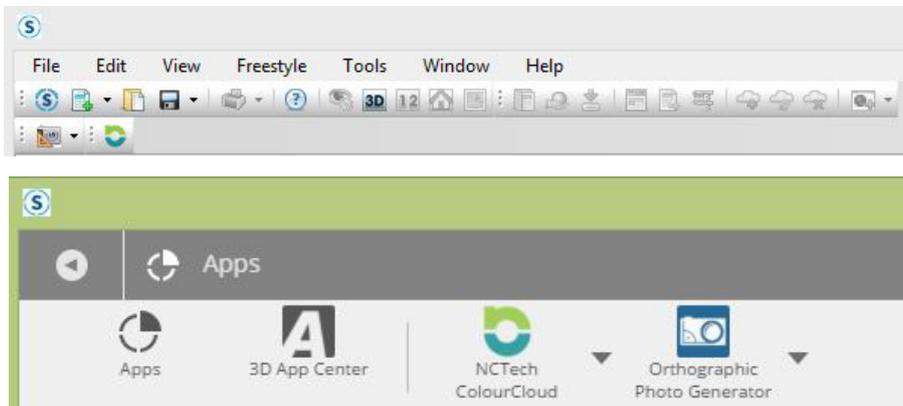
1. Drag&Drop the \*.fpp App file into SCENE
2. Double click the App file in the Windows Explorer
3. Use the App Manager to install the App

Once installed, the NCTech ColourCloud App icon should be added to the SCENE App Manager.



# User Interface

After installation the ColourCloud icon will appear in the FARO SCENE 6.0 toolbar in both interfaces.

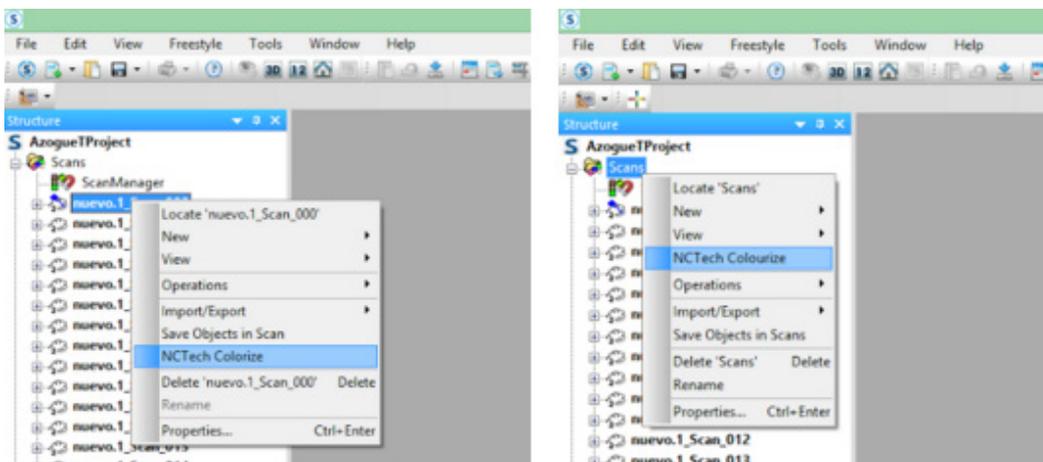


NCTech ColourCloud process can be launched in a similar way in both SCENE interfaces. However, a separate explanation is showed to clarify.

## Previous Interface

NCTech ColourCloud features are accessed by right click on any scan position so the option "NCTech Colourise" can be selected. This will open a window to choose the corresponding iSTAR raw data (\*.nctri). After selecting the corresponding folder colourisation process is launched.

Batch process can be launched by right click on "Scans" folder. "NCTech Colourise" option will appear. After selecting the iSTAR data folder, each scan is fully automatically matched with each iSTAR \*.nctri file and colourisation is performed. Just one click user action is needed to select the main folder.



# User Interface

## New SCENE 6.0 Interface

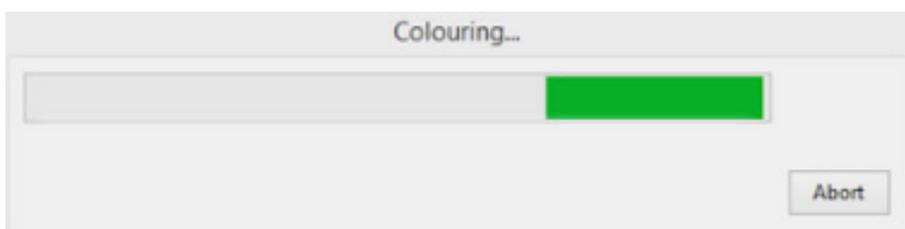
NCTech ColourCloud features are accessed by selecting any scan (Single scan colourisation) or the "Scans" folder (Batch process) and click on NCTech ColourCloud icon and scans colourisation

option. An emergent window will appear to select iSTAR \*.nctri file (single scan) or iSTAR data folder (Batch process). As in the previous SCENE interface, each scan is fully automatically matched with each iSTAR \*.nctri file and colourisation is performed. Just one click user action is needed to select the main folder.



## Options

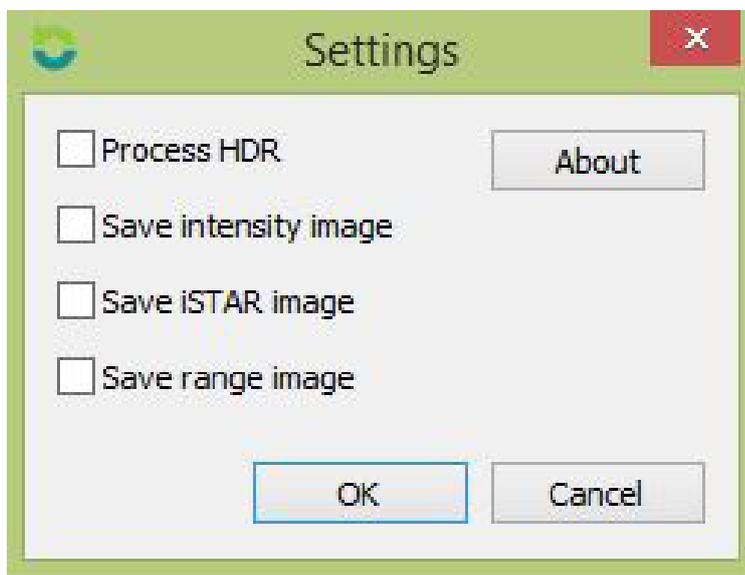
Once the colourisation process is launched it works in the same way within both FARO SCENE 6.0 interfaces. A pop up window with a progress bar will appear. The user can cancel the colourisation process by clicking on "Abort"



# User Interface

Settings window will appear by clicking on the NCTech ColourCloud icon. There, the user can select which images they want to keep in equirectangular format after the colourisation process.

The images will appear in each iSTAR image data folder.



# Results

Once the NCTech ColourCloud colourisation process has finished, point clouds appear inside FARO SCENE INTERFACE with high quality HDR colour provided by the NCTech iSTAR 360° external camera. Once the NCTech ColourCloud colourisation process has finished, point clouds appear inside FARO SCENE INTERFACE with high quality HDR colour provided by the NCTech iSTAR 360° external camera.

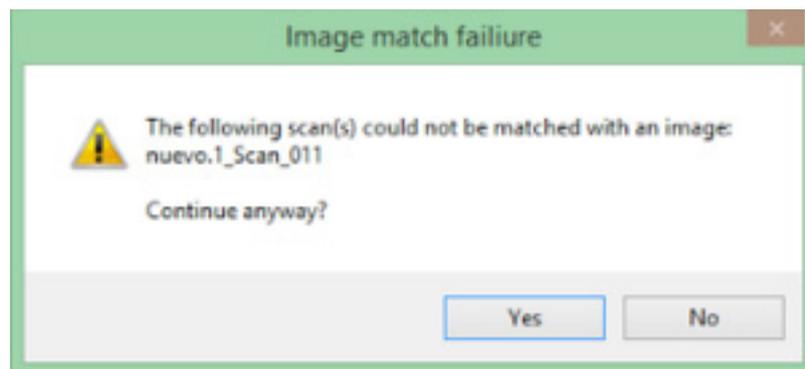


# Assumptions and Support

For the batch process to perform properly is assumed that at each capture position the iSTAR image is taken after each scan, and that the time difference is at least 1 minute between scanning and imaging time stamps (scanner and iSTAR clocks must be synchronised).

Where there is no corresponding iSTAR image found for a particular scan that position will be skipped and further corresponding scans and images will be combined.

For such occurrences where a scans do not have a corresponding iSTAR image a pop up window will appear to notify the user, the user then chooses whether to continue with the remaining batch colourisation, skipping that position, or cancel the whole operation. Individual scans may always be colourised separately by the "Single scan colourisation" function.



For further information about iSTAR or NCTech software visit NCTech website [www.nctechimaging.com](http://www.nctechimaging.com) or email [support@nctechimaging.com](mailto:support@nctechimaging.com)