

DHClient Version 4.19 Release notes

Introduction

This release has an anonymized export facility to prepare data for Wisconsin studies and Belfast for the vPDT study. Support for the Nikon D2H is also included. It is now possible to have the calibration definitions held globally. There is a much simplified cup disc measurement.

Support for Nikon D2H

A new camera option is now available for the Nikon D2H. For this release you **must** uninstall the current DHNikon V1.0 driver and install the new DHNikon 1.1 driver. This is essential also to run a current D1 series camera.

Anonymized study export

Setting up the study export

In order to export data for a study you need first to setup the required information for that study. This includes the list of anonymization fields required and the format for the exported data. This only needs to be done once for each study.

The information will be supplied on a CD or Floppy Disc. Click “Configuration” from the main “Identify a Patient” screen.

Identify a Patient

Fill in as many or as few fields as you wish, then click 'Next'.

Unique IDs

Patient no Visit/study code

Details

Family name Date of birth

Given names Before Exactly After

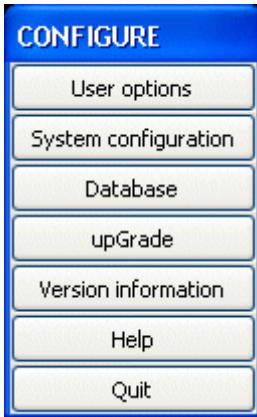
Gender Unspecific Female Male

Diagnosis Use diagnosis

Advanced

Reviewing Data Functions Control

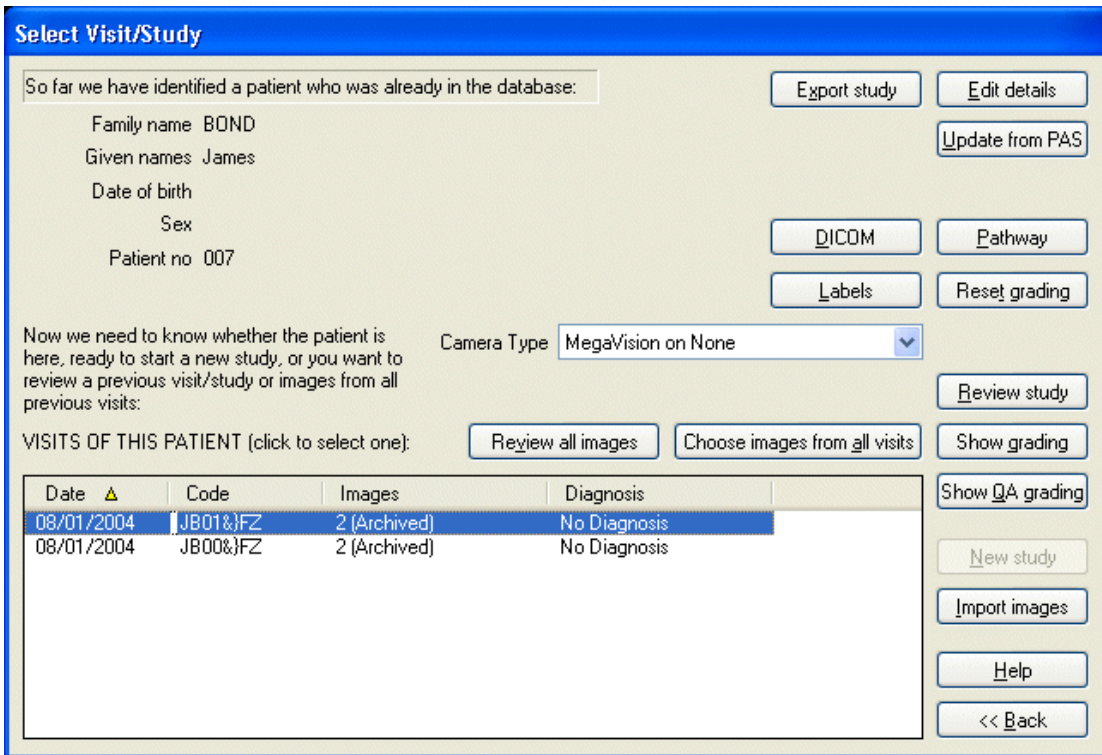
Then click “User options”



Finally click on the “Browse” button below the title “Setup study export protocol”. Browse to the Single file located on the CD or Floppy disc and click “OK”.

Exporting a visit

To export a visit, go the standard “Select Visit/Study” dialog. Select the visit you want to export an click on the “Export study button”



You will then be presented with a dialog showing the specific information required for this study.

Study Export

Study information

Select study: G35097

Export protocol: wisconsin

Last export of this patient:

Data for export

NA01(\$9A from 19/07/2004)

Site number:

Patient ID: 123754

Patient initials: 2-N-

Visit number:

Camera serial number: NN1234

Disc to macula (pixels):

Notes:

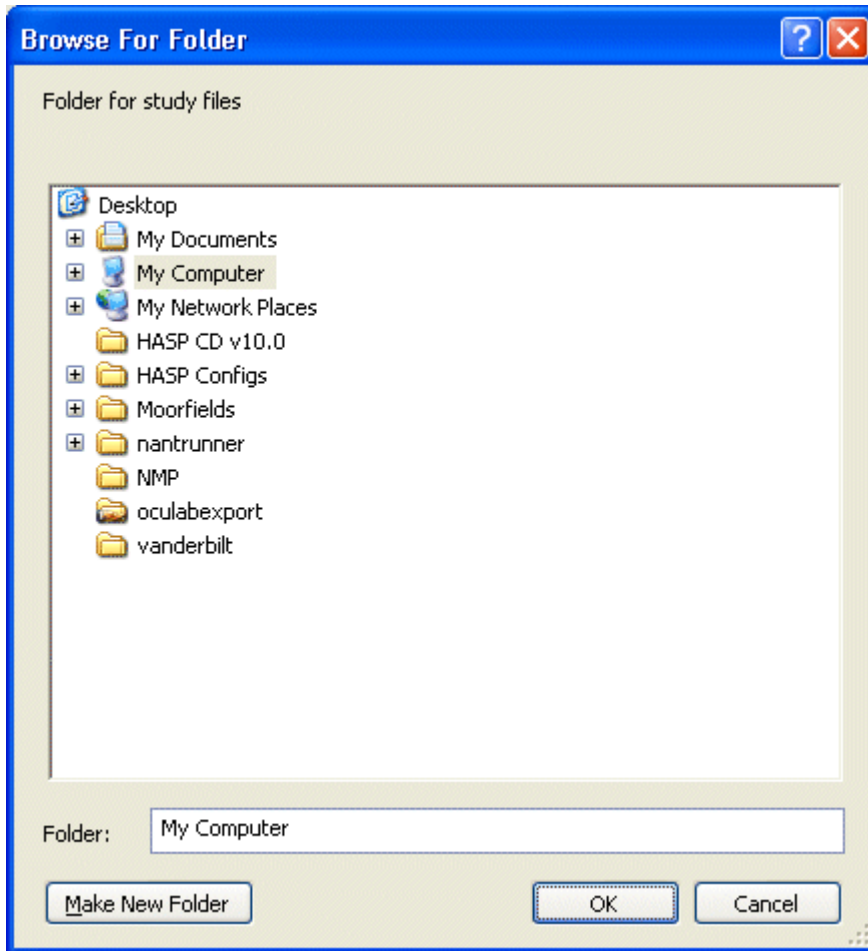
Export location

Browse

Status

OK Cancel

First select the study to which you are sending this visit. If you have previously sent images for this patient in the same study, the previous information will already be filled in. It will also show you the last visit you exported and the date on which you did it. You can change the values if they are not correct. Click “Browse” to select the destination for this export.



If you are using packet writing software (such as DirectCD or InCD) you may be able to write directly to a CD or DVD. Otherwise you will need to write the files to a folder on your hard disk and then burn this folder to a CD or DVD. If you have not made a folder already you can create it now using the “Make New Folder” button.

Click “OK” and the information will be written to your selected destination.

The study protocol file

In order to supply a CD or floppy disc with a study definition an XML file is required. An example is as follows:

```
<?xml version="1.0"?>
<studies>
  <study name="G12345" protocol="wisconsin">
    <field name="Site number" required="TRUE" length="6" priority="1"/>
    <field name="Patient ID" required="TRUE" length="5" priority="2" marker="patno"/>
    <field name="Patient initials" required="TRUE" length="5" priority="3"
marker="wiscinitials"/>
    <field name="Visit number" required="TRUE" length="2" priority="4"/>
    <field name="Camera serial number" length="6" priority="5" marker="NN1234"/>
    <field name="Disc to macula (pixels)" length="5" priority="6"/>
  </study>
</studies>
```

Each study definition can have any number of studies.

The study has two attributes:

Confidential

name – any name

protocol – currently the protocol must be either “wisconsin” or “dhc”.

Up to six fields of information can be added to the images. For a Wisconsin export, they must be named exactly as in the example file, otherwise they can be whatever is required for the study. Each field has the following attributes:

name – the label which will be shown by the field

type – currently date or check (a string is the default)

required – whether the field must be entered before the study will export

length – the maximum length of the field

priority – the order of the list of fields on the export dialog

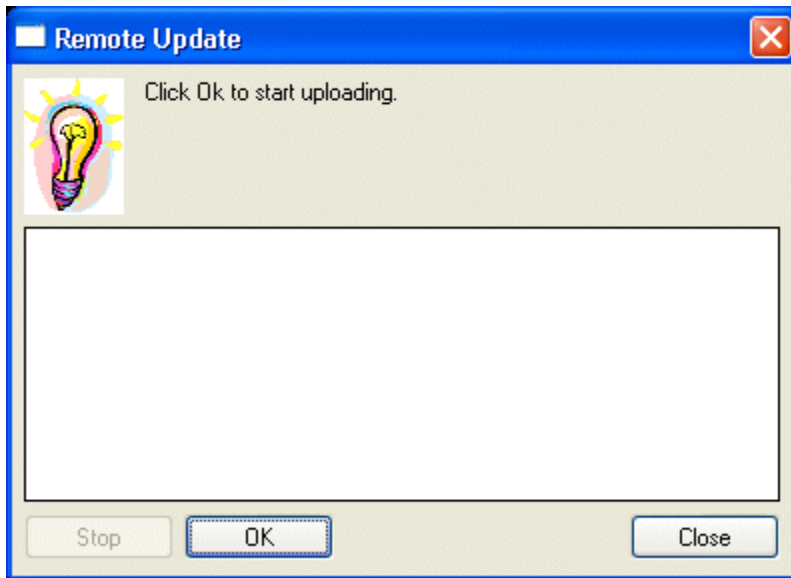
marker – this can take a number of predefined values or can be a fixed piece which is always entered on every export (e.g. the site number). The predefined values are patno (patient number), dob (date of birth), postcode (ZIP/postcode), initials (all initials) or wiscinitials (S--JP format)

For advice on producing a definition file for your study, contact Digital Healthcare.

NHANES Import

A special import has been added for the NHANES study. This is accessed through the usual upload dialog.

Click “Upload” to show the upload dialog.



Put the upload CD into the drive and click OK to begin the process. The text next to the light bulb will change to “Importing NHANES disc” and the progress will be shown in the scrolling box below.

The CD drive is specified by “Review path” in the “Configure/System configuration/Directories and archiving”.

An example of the expected schema is as follows:

```
<?xml version='1.0'?>
<patients>
  <patient>
    <studyid>234</studyid>
    <uniqueid>334072</uniqueid>
    <encounter>
      <techid>1221</techid>
      <date>7/19/2004</date>
      <image>
        <filename>334072Right-Eye Optic Nerve Image 1.tif</filename>
        <time>09:37:01</time>
      </image>
      <image>
        <filename>334072Right-Eye Macula Image 1.tif</filename>
        <time>09:37:02</time>
      </image>
    </encounter>
  </patient>
  <patient>
    <studyid>234</studyid>
    <uniqueid>123754</uniqueid>
    <encounter>
      <date>7/19/2004</date>
      <techid>234</techid>
      <image>
        <filename>123754Right-Eye Optic Nerve Image 1.tif</filename>
        <time>09:45:01</time>
      </image>
    </encounter>
  </patient>
</patients>
```

```
</patient>  
</patients>
```

The fields are entered into the database as follows:

PatNo = uniqueid (@P)
Family name = studyid (@S)
Given names = "NHANES" (@F)
techid = clinician (@C)

using the standard PDF file.

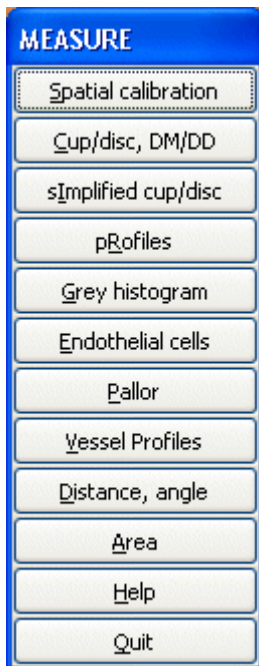
All the image information (including laterality) is imported into standard image records. The image files themselves are just copied and renamed, regardless of the current image format setting in DHClient.

Global Calibrations

DHClient now looks first in the DB folder to find a calibration file, thus all calibrations (and changes to those calibrations) can be made global for all users.

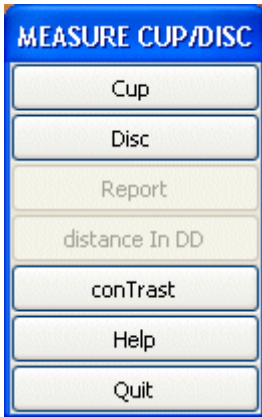
Simplified Cup/Disc measurement

It is now possible to do a single line measurement of the cup and the disc.

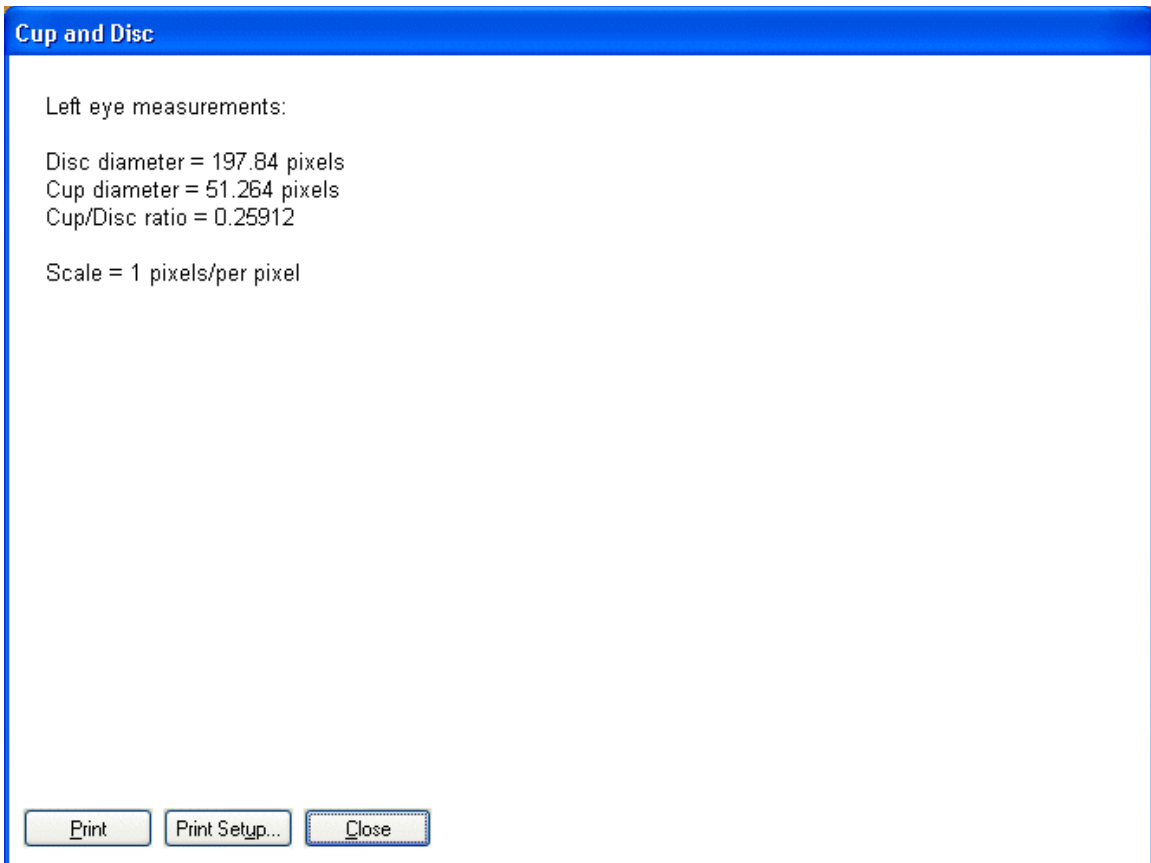


Note it is now possible to navigate to the next and previous images using Ctrl+right and left arrows while the measure menu is shown.

Select "simplified cup/disc"



Click on Cup and click on a point at the start and the end of the required measurement. Holding the mouse down for the second point will drag a line between the start point and the current mouse position. Do the same for the Disc and a simple report will be produced.



This can be printed if required.

Show the Clinician in the Select Visit dialog

If the Use clinician is selected from Configure/System configuration/general opTions, an extra column is added to the visit list showing the clinician. The title of the column is defined in the PDF file in the @C row.

Select Visit/Study

So far we have identified a patient who was already in the database:

Family name: 234

Given names: NHANES

Date of birth:

Sex:

Patient no: 123754

Export study

Edit details

Update from PAS

DICOM

Pathway

Labels

Reset grading

Now we need to know whether the patient is here, ready to start a new study, or you want to review a previous visit/study or images from all previous visits:

Camera Type: Canon G5

Review study

VISITS OF THIS PATIENT (click to select one):

Review all images

Choose images from all visits

Show grading

Code	Date ▼	Images	Diagnosis	Clinician
NA01(\$9A	19/07/2004	4	No Diagnosis	1304

New study

Import images

Help

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DHClient 4.19 Detailed Release Notes

Included/Fixed in this Release

4.19.0.1 (28th October 2004)

Add anonymized export [1241]

Added six month outcome to Sunderland grading and pathway [1131]

Advanced search runs correctly on the Birmingham grading form [1745]

Index queries now return error codes [1825]

NHANES import [1826]

Calibrations can be global [1403]

Simplified cup disc measurement [1827]

Show the clinician in the Select Visit dialog [1828]