Surface Stereo Code:

Installation:

1. You need to install OpenCV 2.2.
2. Open “HOStereo.sln” in Visual Studio Professional. (I use Visual Studio 2010.)
3. You need to set OpenCV pathes:
   1. Menu point “Projek->Eigenschaften”.
   2. Expand “Konfigurationseigenschaften”.
   3. Expand “Allgemein”.
   4. In “zusätzliche Includeverzeichnisse“ insert the path to OpenCV header files (“C:\OpenCV2.2\include;C:\OpenCV2.2\include\opencv;” on my machine
   5. Expand “Linker”
   6. Expand “Allgemein”.
   7. In “zusätzliche Bibliotheksverzeichnisse” insert the path to OpenCV lib files („C:\OpenCV2.2\lib“ on my computer).
   8. Side note: if you directly install OpenCV2.2 in the directory „C:\OpenCV2.2“ can skip these steps.
4. You can now compile the code (“Erstellen->Projektmappe neu erstellen). Please compile the Release version as the Debug version is very slow.
5. You can now directly run the code in Visual Studio for Middlebury Tsukuba.
6. You can run “Run\_Middlebury.bat” in the Release directory in Windows Explorer to compute results for the Middlebury Evaluation set. The batch executes the compiled executable. Results are stored in the directory “results”. Be aware that surface stereo is very slow, i.e. it takes several hours to compute the four disparity maps on my machine! You can check your results against the images in the directory “example results”. Opening “Run\_Middlebury.bat” in the editor also gives an example of how to set the parameters of the algorithm via the command line.

Here are my specs:

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System Information

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Time of this report: 5/25/2011, 11:40:55

Machine name: MB

Operating System: Windows 7 Professional 64-bit (6.1, Build 7601) Service Pack 1 (7601.win7sp1\_gdr.110408-1631)

Language: German (Regional Setting: German)

System Manufacturer: System manufacturer

System Model: System Product Name

BIOS: BIOS Date: 02/24/10 13:59:37 Ver: 08.00.15

Processor: Intel(R) Core(TM) i7 CPU 950 @ 3.07GHz (8 CPUs), ~3.1GHz

Memory: 12288MB RAM

Available OS Memory: 12278MB RAM

Page File: 4313MB used, 20241MB available

Windows Dir: C:\Windows

DirectX Version: DirectX 11

DX Setup Parameters: Not found

User DPI Setting: Using System DPI

System DPI Setting: 96 DPI (100 percent)

DWM DPI Scaling: Disabled

DxDiag Version: 6.01.7601.17514 32bit Unicode