

ResLab computers and software



Save a backup file from each program in AFS!

Available computers

Account name	Device name	OS	Application	Mac-Adesse	Upgradekey	Basiskey	Windows Questions/Answers	Required software & Hardware
ResLab_Main	ResLab-Main	Windows 10 Pro (64 Bit)	Comb, Counter, TEC, GPS	A8-5E-45-5C-67-B3			always HMaser	ResLab-Main
Reslab	MG-SR-PC	Windows 10 Pro (64 Bit)	Work and analyse, H-Maser	b8-ae-ed-22-87-26	K000-024U	D000-024X		MG-SR-PC
ResLab mobil	reslab-maser	Windows 7 Pro (64 Bit)						

Old computers

Account name	Device name	OS	Application	Mac-Adesse	Upgradekey	Basiskey
ResLab	DESKTOP-9V6MC40	Windows 10 Pro (64 Bit)	Comb, Counter, TEC, GPS			

Useful Software/Drivers for all computers

The following is installed and set up on the computers first. Then the computer is optimized for its application. See the links above for the different computers.

1. Install windows

2. Install RAID system in BIOS

<https://www.asus.com/de/support/FAQ/1007642/>

3. Install drivers

- Intel® Optane™ Memory and Storage Management from Microsoft store
 - <https://www.microsoft.com/de-de/p/intel-optane-memory-and-storage-management/9mzn-g5hzwz1t?activetab=pivot:overviewtab>
- Install Intel-Driver and Support Assistant
- Other Drivers for Mainboard (Always the **latest!**):

- Date: 02.2020:
- https://www.asus.com/de/Motherboards/PRIME-H370-PLUS/HelpDesk_Manual/
 - VGA (Version 26.20.100.7210)
 - Audio (Version 6.0.1.8339)
 - LAN (Version 10.31.828.2018)
 - Chipset (Version 1914.12.0.1256)

4. Activate Windows

- Run in cmd.exe with admin rights
- Make sure, the current date is correct
- RRZN: `<fc #ff0000>HIER</fc>`

1. `slmgr -ipk XXX`
2. `slmgr -skms kms.rrzn.uni-hannover.de:1688`
3. `slmgr -ato`

5. Windows/Computer Settings

1. Disable automatic updates
 - Just “show new updates but dont download/install”
 - 1. “Windows” + “R” → `services.msc`
 - 2. “Windows Update” deaktivieren
2. Disable Standby & HardDisk Shutdown
3. Manually set Pagefile to 8096 MB on C:
 - <https://www.windowscrush.com/moving-windows-pagefile-to-another-drive.html>
4. Disable hibernate
 - anyway useless on SSD, eats space and may wear SSD
 - Run in cmd.exe with admin rights
 - `powercfg -h off`
5. Stop C:\Windows\Installer folder to grow beyond good and evil
 - Run in cmd.exe with admin rights
 - `reg add HKLM\Software\Policies\Microsoft\Windows\Installer /v MaxPatchCacheSize /t REG_DWORD /d 0 /f`
6. Limit Recyclebin to 1 GB
7. Rename Windows-Partition to “System”
8. Disable useless services (services.msc in command-prompt)
 - Windows Search
9. Move User Folders (Right-click, Location, Move)
 - `C:\Users\ResLab-Main\Desktop` → `D:\System\Users\ResLab-Main\Desktop`

- C:\Users\ResLab-Main\Downloads → D:\Downloads
- C:\Users\ResLab-Main\My Documents → D:\System\Users\ResLab-Main\My Documents
- C:\Users\ResLab-Main\My Music → D:\System\Users\ResLab-Main\My Music
- C:\Users\ResLab-Main\My Pictures → D:\System\Users\ResLab-Main\My Pictures
- C:\Users\ResLab-Main\My Videos → D:\System\Users\ResLab-Main\My Videos
- C:\Users\ResLab-Main\Saved Games → D:\System\Users\ResLab-Main\Saved Games

10. Install german language

11. Deinstall Software:

- One Drive

12. Dateiendungen anzeigen:

1. Öffnen Sie irgendeinen Ordner.
2. Klicken Sie im oberen Bereich auf den Reiter „Ansicht“.
3. Wählen Sie hier den Bereich „Ein-/ausblenden“ aus und setzen Sie einen Haken unter „Dateinamenerweiterungen“.

13. Share for D-Drive (Read only)

14. Share for D:\Public (Read + Write)

15. Make hidden files and folders visible



Install all latest Windows Updates

6. Install Software

1. Mozilla Firefox
2. Sophos → RRZN: <https://www.luis.uni-hannover.de/antiviren.html>
3. Time Watch → <https://www.blue-series.com/en/products/time-watch/>
 - Server: ptbtime1.ptb.de
 - Server selbst hinzufügen: time1.rrzn.uni-hannover.de
4. AFS → https://iqwiki.iqo.uni-hannover.de/doku.php?id=it:configuration_stuff:connectafs:start
 - Version: afs_iqo_1.7.33.zip
5. CCleaner
6. Notepad++
7. Libre office
8. FoxitReader
9. CPU-Z for stress test of CPU
10. Launchy
11. Ditto
12. Mathematica → <https://iqwiki.iqo.uni-hannover.de/doku.php?id=main:mathematica>
13. Install first Git and than TortoiseGit
 - Use your institute email and kerberos login credentials the first time it asks for such login details

14. MiniTool ShadowMaker Free

7. Backup with Minitool shadow maker free

- from C to D in D:\backupdata

8. Install Software

1. CrystalDiskInfo (Version: 8.4.0)
 - add to SysTray (for SMART warnings etc)
2. TightVNC (Version 2.8.27)
 - Client & Server
 - Server:
 - Login-PW: HMaser
 - Admin-Password: HMaser
 - Server: Uncheck "Accept incoming connections" (not yet using VNC)
3. Puresync
 - configure the correct folders to be backed up to AFS

9. System Restore with windows

10. Copy old Data from other Hard drives

1. Do not forget to sort!



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