



QBase 3D
- FIRST STEPS -

QBASE 3D - GROUND CONTROL STATION

Our **self developed flight planning windows software** QBase 3D makes it easier to achieve your goals by supporting you in the use of the Quantum-Systems UAV's. Cooperating with ESRI gives us the ability to integrate existing ESRI Data and define the flight area with a few clicks, on- and offline.

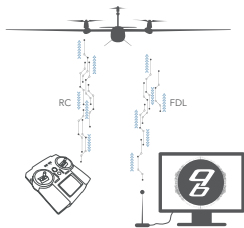
The **intuitive user interface** helps you to define your mission parameters in a few minutes. QBase 3D automatically generates efficient flight paths after the flight area and the mission parameters have been defined with a few clicks, allowing you to be up and flying in no-time with our powerful and easy-to-use software. You are in complete control over your photogrammetric aerial survey mission and guaranteed full coverage over the area of interest.

An additional feature is the **advanced Mission-Check which examines your mission and specified parameters** before the transfer of the mission to the UAV.

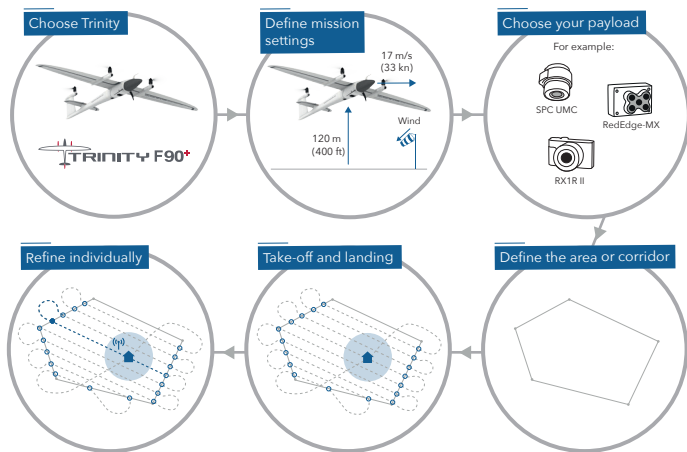
QBase 3D provides **real-time information** from your Quantum-Systems UAV. It also features an instrument panel that gives you updates on the altitude, speed, heading and battery health to help you evaluate your status at any time.

Our QBase 3D features a **two layer safety system** which ensures the success of your mission. The first safety check is integrated within QBase 3D which performs a mission possibility check while you plan your mission. Once you transfer the mission to the UAV the integrated autopilot performs a second preflight check in order to ensure the mission can be successfully flown with the available UAV resources such as battery capacity, temperature or sensor status.

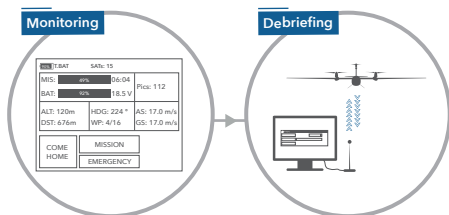
Quantum-Systems UAV's combined with QBase 3D help surveyors, farmers, scientists, quarrymen, civil engineers and geologists to focus on their application, allowing them to just fly!



QBase 3D is a **Microsoft Windows based desktop software**. QBase 3D assists the user in planning a mission. The planning process is always accomplished in the following order:



After planning a mission QBase 3D assists the user in monitoring and controlling the Trinity during the flight but also in debriefing the mission.



Install QBase 3D

1. QBase 3D is provided by your reseller or you can download it on the server mentioned above
2. Open the QBase 3D installer file and follow the instructions of the installation guide.
3. Open **Start QBase 3D** to open the program.

MINIMUM SYSTEM REQUIREMENTS	
OS	Windows 10 64bit
CPU-Speed	2.5 GHz or higher (Hyper-threading or Multicore recommended)
RAM	2 GB or higher
Free Disk Space	500 MB
Display	24-bit color depth
Screen Resolution	1600 x 900 or higher at normal size (96 dpi)
Video/Graphic Adapter	64 MB RAM minimum, 256 MB RAM recommended; NVIDIA, AMD, and Intel chipsets supported; Accelerated graphics card driver; Be sure to use the latest available driver

If you have problems starting QBase 3D, make sure your installation of Microsoft Windows is up to date.

Uninstall QBase 3D

1. Open **Settings**.
2. Open **Apps & features**.
3. **Search** for QBase 3D.
4. Select **Uninstall**.

Alternative: Uninstall QBase by using the uninstaller shortcut found under C:\Programs\Quantum Systems\QBase 3D\Uninstall QBase 3D

QBase 3D Modem Driver

For the connection between QBase 3D and the Trinity F90+ via the QBase 3D modem a driver is required. If you have problems connecting the Trinity F90+ to your computer via the QBase 3D modem, make sure the driver is installed.

The required driver can be found in the Windows directory:

Programs → Quantum Systems → QBase 3D → Drivers → QBase 3D Modem

Open CDM21228_Setup.exe and follow the instructions of the installation guide.

Autopilot

When using Windows 8 for the connection between QBase and the Trinity F90+ via USB a driver is required. If you have problems connecting the Trinity F90+ to your computer via USB make sure the driver is installed.

The required driver can be found in the Programs → Quantum Systems → QBase 3D → Drivers → Autopilot

Open Setup_W8_x64.exe (also for windows 10) and follow the instructions of the installation guide.

Updating QBase 3D

QBase 3D will notify about new available updates upon startup. To manually check for new updates, go to Updates menu and select Search Updates.

1. Select **Updates**.
2. Select **Download** to start downloading the update. The update consists of an installer file.
3. Select **Update** to start the installation.
4. QBase 3D is closed and the installer opens automatically.
5. Follow the instructions of the Setup Wizard. The old version of QBase 3D is automatically overwritten.

**For further details
please read the
manual.**

The manual can be found in the folder
Documents → QBase → Manual



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