IKARUS

Norbert Grüntjens

aerofly 5

Quick round up of the functions and features of the new and innovative "aerofly5" software at a glance" (more details further down):

- New unique 4D- graphics = first virtual 4D graphics with animated environment
- 4D "Virtual-Elements-Technology" = brings the virtual 4D world alive
- New high resolution photo sceneries = highest vividness in full HD and higher
- New flight physics engine = as realistic as never before
- New model technique = as authentic as never before
- New graphics engine = as fast, brilliant and intense as never before
- 8 pilot Multi-Player Mode via internet/network with chat function = the mega fun for flying buddies; up to 8 pilots may fly simultaneously in a scenery
- New Training Modules = Flying made easy
- Torque Training Program = "Torquing" made easy
- Helicopter Training Program = learn to hover a helicopter the easy way
- Landing Training Program = learn the perfect landing approach
- New Contests = challenges you will enjoy again and again
- Autorotation Contest = practice, learn and improve you helicopter autorotation
- Air Race = thrilling race course through gates, obstacles and pylons
- Pylon Race = tremendously fast race around a pylon course
- Limbo Contest = challenging skill contest
- Spot Landing Contest = practice spot landing for your next real contest
- Seaplane Flying = practice to take off and land on water
- Fast Calibration = most simple calibration of the transmitter or controller
- Movie Center = record and replay your own flight videos
- Flight Mode / Stick Mode Direct Selection = direct set up of the Stick Modes 1-4 as preferred by the pilot
- Walk Mode = discover the 4D scenery without aircraft
- Flight Info Center = individual windows for all flight relevant information such as variometer, speed, wind direction, wind force and much more
- New Vario Window = voice and numerical information
- Menu Fast Selection = lightning fast selection of the most important program functions without leaving the scenery
- Glider Towing = realistic glider towing with a power plane. New tow line physics.
- Hand Start/Slope Launch = just like on the slope the glider is hand launched
- Wind and Weather Center = this feature allows complete weather set up: wind force, wind direction, thermals, cloud formations, fog, turbulence.
- Time of Day Set Up = continuously variable time of day set up; from dawn to dusk all the way into the night

- Freely selectable cloud formation = select from various types of clouds in the weather center; depending on cloud type selected the thermal conditions will change accordingly.
- Flowing water animation = naturally flowing water
- Animated wind wheels, wind socks, trees, branches, leaves = wind wheels, wind socks, trees, branches and leaves go into motion depending on wind force and direction
- 5 different Observer Modi = pilot position just like at the airfield, cockpit mode like sitting in the aircraft, follow mode, pursuit mode, pivot mode (watching the aircraft from the side)
- Multi-Pano-Technology = allows piloting in photo realistic sceneries from different pilot positions
- New Multi-Pano Photo Sceneries = high resolution photo sceneries in brilliant full HD quality
- 5 High Resolution 4D Sceneries in "Virtual-Element-Technology" = innovative 4D sceneries with new "Virtual-Element-Technology" are presenting the virtual world in vivid high definition
- All Fixed Wing Aircraft and Helicopters in new model technology = entirely new flight physics engine. Better than ever before!
- New Aircraft = newly programmed aircraft in new model technology
- New Helicopters = newly programmed helicopters in new model technology
- Developed by IPACS = the makers of the 6 time award winning RC flight simulator "Aerofly Professional Deluxe"
- Co-designed by pilots of the "Aerofly Team International" = the members of the "Aerofly Team International" belong to the best pilots in the world. They assisted the designers during the programming of the individual model flight physics.

4D Graphics

These sceneries compare to brilliant photo sceneries, but with the extensive functions of 3D sceneries in an animated environment

The new revolutionary 4D graphics of the "aerofly5" is a masterpiece of innovation. Unlike to the known 3D sceneries the new 4D graphics with 4D technology bring sceneries to life.

The revolutionary 4D graphics approach the brilliance of photo realistic sceneries, but with the advantage that you are able to move to 5 different pilot positions.

In a photo realistic scenery you can only fly from the viewpoint of the model aircraft pilot. The popular follow and cockpit modes cannot be used in photo sceneries. The innovative 4D graphics with the "Virtual-Elements-Technology" are setting new standards. Now you can experience the virtual world of the "aerofly5" in a new, fourth dimension.

Thanks to the 4D technology you will be able to fly from the perspective of the pilot. While this was already possible in the known 3D sceneries, the graphic representation of the 3D sceneries of the past never came close to the quality of photo realistic sceneries.

The new 4D technology combines all known advantages of previously known graphics technologies such as the high resolution and brilliance of photo sceneries, the free choice of the viewing position of the 3D sceneries with the new animated environment using the innovative "Virtual-Elements-Technology".

Nature truly comes alive. While i.e. trees, branches and leaves move naturally, water flows, wind wheels, wind socks and flags turn absolutely realistically according to the force and direction of the adjustable wind, thus always offering the chance to exactly fine tune your take offs and landings.
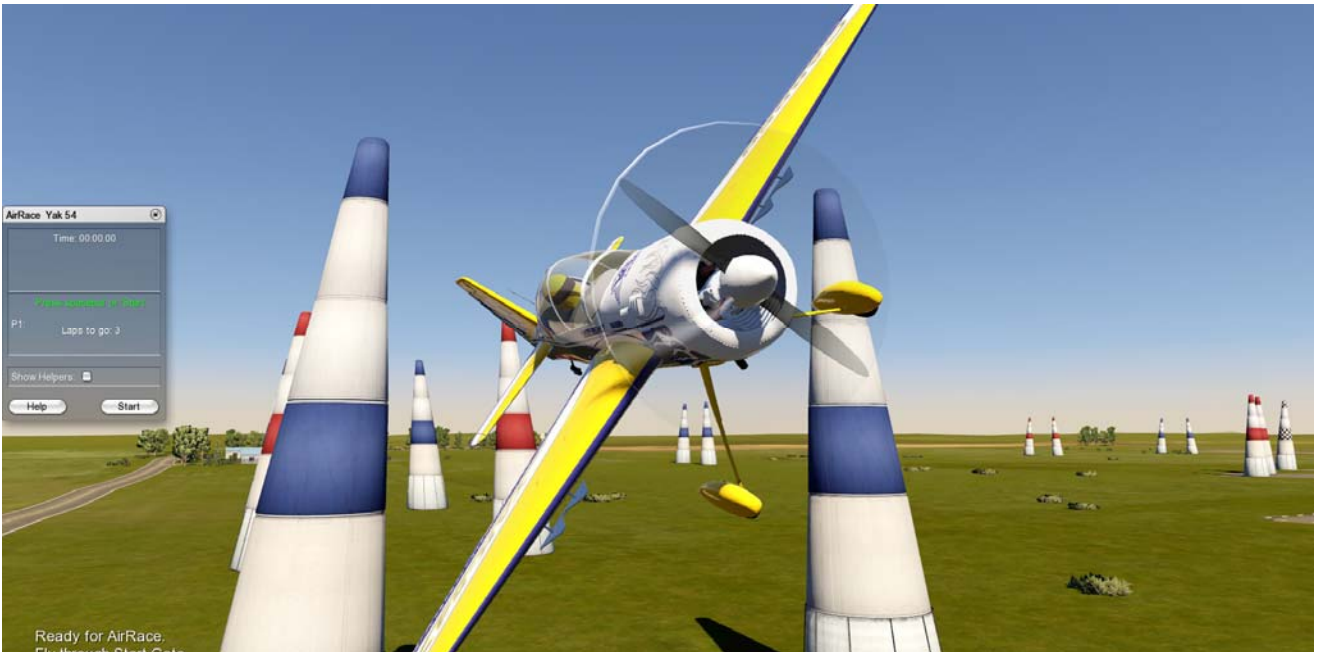
The **"Virtual-Elements-Technology"** enables the pilot to create "his or her own" weather. Select from many types of cloud configurations, ranging all the way from nimbostratus to cirrus with their typical effect on thermals.

The time of day is continuously adjustable. Fly from dawn to dusk. Depending on the time of day the shadows, light direction and thermals will change accordingly. Discover the lively designed 4D graphics in Walk Mode. Walk through hangars, tunnels, buildings and streets. Fly through ravines, forests and rows of buildings. You will be truly fascinated.
The innovative 4D graphics with "Virtual-Ele4ments-Technology" will bring your PC world to life.

Contests

Air-Race
You will compete against time while flying in the thrilling "aerofly5" Air Race in cockpit or follow mode as you race through gates, and around pylons. The flight course is indicated by green arrows. Just like in real Air Races the gates have to be mastered in different aerobatic maneuvers, such as knife edge flight.

Pylon-Race
Speed lovers will get their moneys worth by competing in the spectacular Pylon Race.
Thunder at Vmax around the pylons by choosing the shortest possible trajectory. Just like in real pylon races the turning point at the pylons will be indicated to the pilot by optical signals.

Limbo Flying

This is a special skill contest. Flying skill is in great demand here. You will fly under limbo rods at varying heights. In particular those pilots who specialize in precise flying will be able to hone their skills in these contests.
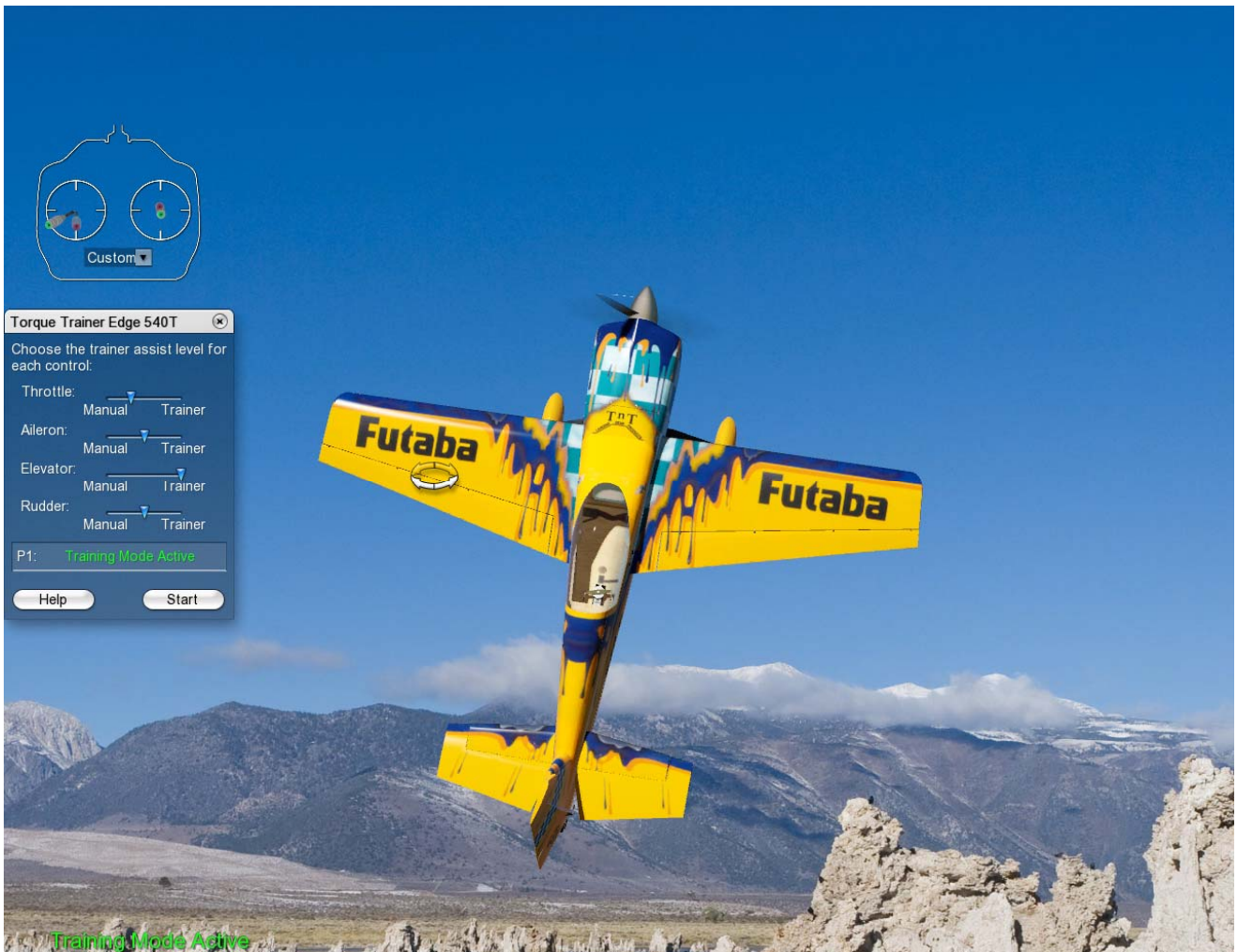
Balloon Popping

Imagine an airfield full of balloons. The more balloons you can pop the better you are. Your goal is to pop as many uncontrolled floating balloons as possible, while deciding for the most economical flight pattern.

Training programs: Torque Trainer, Landing Trainer, Hover Trainer

Flying remote controlled model aircraft is constantly gaining in popularity. No matter whether flying powered aircraft, gliders or helicopter models, more and more flying enthusiasts are joining our wonderful hobby and sport. Every aircraft type is equally interesting and challenging and has its own group of followers.
Over the last few years the flight simulator has evolved as the No. 1 training device. The Aerofly in particular has been a great help in teaching flying and advancing the skill level of thousands of RC pilots.

Even world class pilots swear that the aerofly has helped them to practice their free and compulsory programs. By now flying remote controlled aircraft has become a passion for many. The maneuvers flown with model airplanes and helicopters are very complex and require a lot a practice. Even the number of newcomers to RC helicopter flying has increased dramatically over the last few years. The "aerofly5" offers wonderful training programs to the helicopter novice as well as the fixed wing pilot.

Torque Trainer

Nose up and against the wind, aerobatic and Shockflyer models seem to hover weightlessly close to the ground. With the Torque Trainer you will get a training program to effortlessly learn those spectacular and demanding aerobatic maneuvers. The cleverly devised program guides the pilot step by step to become a fully independent flying torque champ.

The main control functions of the model can be individually practiced step by step. Those functions that the pilot decides to not control yet, are executed by the "aerofly5". This way the pilot can fully concentrate on only one control function at a time.

The "aerofly5" is taking over all non-controlled functions during flight. The intensity of each function can be varied continuously in the program at four virtual slider controls. Aileron, elevator, rudder and throttle have their own slider to adjust to the desired training support. As the pilot becomes more experienced with the respective function the intensity of the training support can be gradually reduced all the way down to zero.

With the Torque Trainer you will learn the popular torque maneuvers the professional way just like flying under supervision of a teacher in a flight school.

Landing Trainer

A smooth landing is always the crown of a beautiful flight. It is a known fact, that most models crash during landing. To help you to improve your skill level in this most difficult flight phase, the "aerofly5" offers the newly developed Landing Trainer.

Practice and master safe landings under head wind, cross wind and final approach conditions with perfectly measured doses of descending speed without any fear of tip stalling. An area marked on the runway is the target for a smooth touch down at the end of the flight. In a separate window on the screen you will see the wing position and the angle of attack of the fuselage and the wings. Helpful landing plan squares will show you the best glide slope to the runway.

The "ae4rofly5" Landing Trainer is a wonderful and skillful training program for novices, advanced and expert pilots alike.

Hover Trainer

The crown in model aircraft piloting is helicopter flying. In this category the RC flight simulator is the best training and practicing program, period. Your valuable real model helicopter can be spared until you have mastered helicopter flying safely on the simulator. The "aerofly" has already transformed many, many helicopter novices into real experts. Until hovering a model helicopter becomes second nature, you will have to practice frequently.

With the Hover Training Program you can practice perfect hovering. The training support intensity of the main control functions, such as pitch forward, roll, pitch and tail control, can be continuously varied and independently adjusted according to the desire of the pilot. If the pilot wants to concentrate first on the roll function he will deactivate the trainer function for "Roll". Now the pilot alone controls the roll movements of the helicopter. The more advanced the pilot becomes with a particular control function the more he can reduce the support intensity all the way to zero. Little by little helicopter flying becomes second nature. With the "aerofly5" Hover Trainer you will learn how to perfectly hover a helicopter.

Autorotation Contest

Practice targeted autorotation in contest style with a helicopter. The closer you land to the target point the higher your score. This is an excellent tool to fine tune your autorotation technique.

New Features/Functions

Multi-Player Mode
The Multi-Player Mode offers the fantastic possibility to fly simultaneously with up to 8 pilots on the internet or on a network. All 8 pilots fly in one and the same scenery. A separate chat window allows verbal communication between all pilots. Just imagine, flying a pylon race or autorotation contest with your buddies.
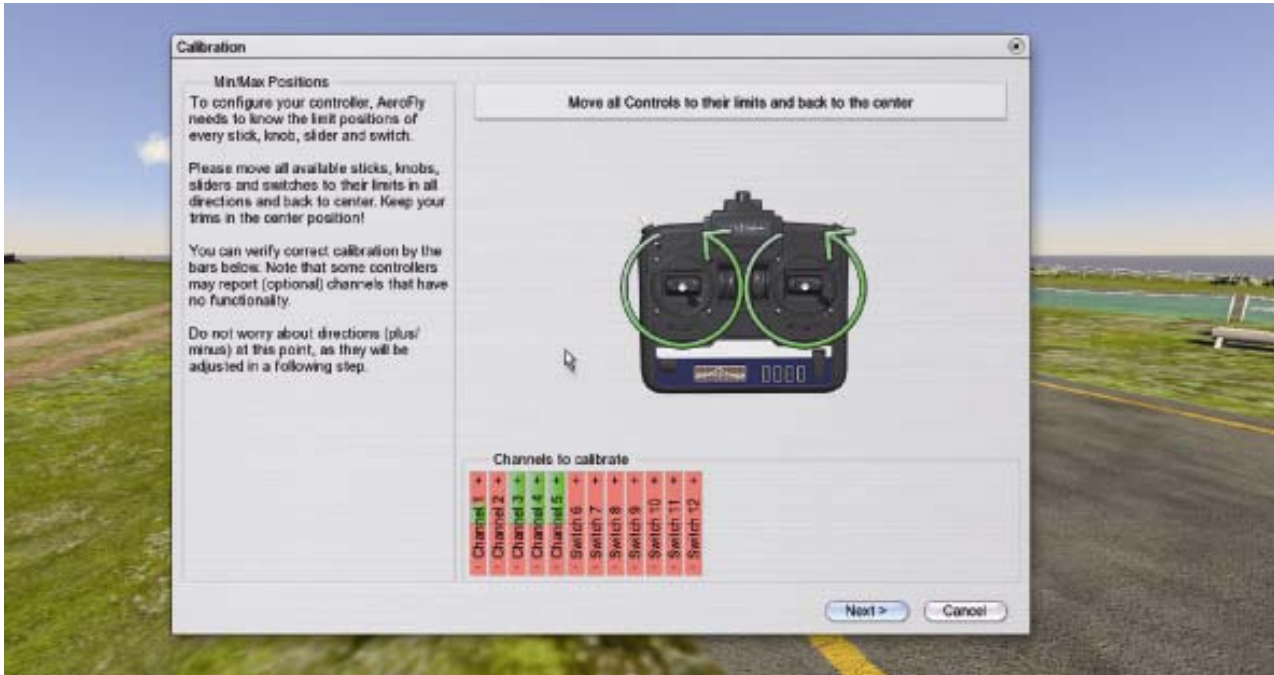
Recording Center
Record your flights and play them back as often as you wish. Analyze your flight performance when practicing for a contest or your free program with music. What a perfect way to hone your skills. You will be able to improve your flight program to perfection.

The Quick Start Menu
The "aerofly5" features a useful Quick Start Menu. The most important program functions such as aircraft and scenery selection, wind, weather or view point can be
called up with the click of the mouse and selected in a matter of seconds. The entire menu structure has been designed in a way that you do not have to leave the current scenery anymore in order to change various parameters. This saves resources and the pilot is able to concentrate on the essential task, the flying.

The Quick Calibration

With the Quick Calibration transmitters and "aerofly5" controllers can be calibrated in matters of seconds. Pilots can directly select their preferred Mode, What's more, there is still a pro-version for the transmitter calibration available as an alternative. This allows the pilot to set up his/her transmitter for helicopters, fixed wing aircraft and gliders in the fullest detail as per his or her individual preferences and habits. This is an exceptional tool to "customize" the virtual model and save it under a new name on the computer.

The Model Editor

Every pilot can individually fine tune fixed wing aircraft, helicopters or gliders. Be it the center of gravity, engine, pitch and size of the propeller, positive and negative pitch values for a helicopter or the weight. All these and many more parameters can be adjusted and changed in the Pro Model Editor, offering the possibility to perfectly fine tune the virtual aircraft and helicopters of the "aerofly5" to personal habits and preferences.

Glider Towing

Glider towing (a glider is being towed to altitude by a powered model aircraft) is quite popular among model pilots. "aerofly5" also offers this type of glider launching. The realistic physics of the tow launch gives the pilot the feeling of standing at the runway. After reaching launch altitude the pilot disconnects the glider from the tow line and starts the search for thermals.

The Weather Center

No matter which time of day, cloud configuration, wind force and direction, or fog you would like to select, the "aerofly5 Weather Center has it available. You are the boss and you decide about the weather such as "cumulus", "cumulus mediocris", "cirrus", "nimbo stratus" cloud configurations, strong wind, thermals or times of day.
Even the thermal effects originating from the clouds are simulated faithfully. Wind direction can be selected between 0° and 360°, wind force between 0 and 100 ft/sec (0 -30 m/sec). Of course, thermals and turbulences are taken into account also, and their intensity can be determined and changed by the pilot.

The 5 different View Point Modes

1. Model Pilot Mode
You fly from the viewing position of the model pilot, i.e. the fixed pilot position. In photo realistic sceneries the pilot's position can be changed thanks to the "Multi-Pano Technology" used in the "aerofly5". Just switch the position via the "Multi-Pano" function.
In the new high resolution 4D graphic sceneries any given location can be selected as the ground viewing position. It really does not matter whether you intend to fly at the top of a hill, in a hangar or on a wide open field. You decide about your preferred fixed flying position just as you would do at your model airfield.

2. Follow Mode
This viewing position has a very special appeal. In Follow Mode you are piloting the model from behind. In particular flying along rows of buildings, through valleys, between tree lines and through tunnels provides a very thrilling experience. Viewing the rudder positions and model re-actions during flight is not only advantageous for the novice but for experts as well. The distance to the model can be adjusted with the arrow up and arrow down keys on the key board. This flying mode is only available in the new 4D sceneries.

3. Cockpit Mode
The pilot controls the model from the perspective of the cockpit. The horizon changes according to the rudder and aircraft movements of the model flown. This mode, too has a special appeal when flying along the lovingly detailed 4D sceneries.
Especially those pilots who prefer to discover the scenery from a bird's eye view just to dash over fields, meadows and hills in spectacular ground hugging flight get their money's worth.

4. Pivot Mode
This is an entirely new perspective as you fly next to your model in side view.

5. Walk Mode
In Walk Mode you may discover the virtual world of the new 4D sceneries just like a person out for a stroll. Discover the lovingly detailed scenery or be on the look-out for a suitable flying field.

Hand Start for Dynamic Soaring and Slope Soaring

Slope soaring is a very popular discipline among model airplane pilots. At the top of a slope the model glider is hand launched into the up draft of the oncoming wind. The new "aerofly 5" offers this type of slope launch.

With a click of the mouse you powerfully launch the model out into the valley. Only by the power of the wind and thermals can the model stay afloat. The approaching wind reflected upward by the slope provides lift for the model to maintain and gain altitude. Entirely without motor power model gliders can fly for hours in this band of updraft. When the pilot has mastered this updraft effectively and the model has gained sufficient altitude it can be flown out into the plains to find a thermal up-current to gain even more altitude by circling in the thermal up-wind (just like birds do).

The many mountains and hills of the new "aerofly5" 4D sceneries offer great sites for slope soaring. Of great advantage is the possibility to customize the wind direction, wind force as well as thermals and turbulences in the Weather Center. Unlike in reality, you are able to create your own perfect conditions for slope soaring at any selected hill or mountain.

For example the wind direction can be selected to run perpendicular to the slope. The slope reflects the wind upward, thus creating a perfect slope soaring environment. Pilots looking for more challenging conditions may select a wind direction approaching the slope partially from the side, or decide for stronger thermals or turbulences in the Weather Center.

As the pilot may freely select the starting position in these marvelously designed 4D sceneries he or she has the opportunity to fly at the most interesting locations within the new 4D sceneries. All viewing positions have their own, very special appeal. Flying from the fixed viewing point as well as slope soaring in Cockpit Mode, "sitting" in your glider soaring within the 4D sceneries, will totally fascinate you. You will not get this exciting experience out of your mind anymore. Experiencing nature on your PC this way and playing with the elements is a great challenge. You will not be able to forget it once you have tried it or ever want to enjoy it any other way.

Winch Launch

Launch your glider with a winch. The authentic winch launch physics and the realistic launch process allow for life-like winch launches. After reaching release altitude the model will be disconnected from the launch line and the pilot will start searching for thermal updrafts.

Seaplane Flying

Watching a seaplane take off and land is always fascinating. Thanks to its "Virtual-Elements-Technology" the 4D graphics of the "aerofly5" are true-to-life, as the water, too, is constantly in motion.

By selecting flying boat and seaplane models or helicopters with floats, you may even take off and land on water. All 5 viewing point positions are equally interesting. You will have a good time landing after an exciting round flight close to the beach in view of seaside visitors or flying a seaplane model above the crest line of the breaking waves.

Patented Technology of the "aerofly5"

"Full HD Technology", "Multi-Pano Technology", "True Sound Technology" and "Virtual-Elements Technology" are features which probably excel the "aerofly5" to the best RC Flight Simulator of all time.

The brand new "4D Virtual-Elements-Technology, presented in the new 4D sceneries and graphics is a master function of the new "aerofly5". This technology brings the nature of the virtual RC world alive.

Flowing water, swaying trees and leaves dancing in the wind, animated wind socks and flags, thermals, fog, adjustable time of day and weather conditions create life-like appearance of the virtual word in the new "**aerofly5**".

Time of Day

In the new "aerofly5" it is possible to change the time of day with a single mouse click During the day the changing sun positions create varying shadows, shapes and mirror effects on buildings, models and obstacles. You may change the time of day from dawn to dusk and into the night.

Changing sun position naturally alter the thermal conditions, too. Just like in nature, the "aerofly5" offers these varying conditions. A slope or open field soaking up the thermal energy of the sun during noon time will produce more thermals in the afternoon than in the morning or evening.

Favorites Center

This is the place where you can save your favorite models and sceneries in mere seconds. The pilot alone will determine the contents of the Favorites Center.

The following versions are available:

R/C Flightsimulator aerofly5
with USB Interfacecable
for the own transmitter

Windows-Version
Order No. 3071001   249.00 €

Mac-Version
Order No. 3071004   249.00 €

R/C Flightsimulator aerofly5
with USB Game Commander

Windows-Version
Order No. 3071002   299.00 €

Mac-Version
Order No. 3071005   299.00 €

R/C Flightsimulator aerofly5
Upgrade for Aerofly
Professional Deluxe

Windows-Version
Order No. 3071003   119.00 €

Mac-Version
Order No. 3071006   119.00 €

Windows-Version

Minimum system requirements
- 100% Intel Pentium 4 or AMD Athlon64 compatible CPU with 2,4 Ghz
- 1 GB of RAM
- 8 GB free hard disc memory
- DVD-ROM drive
- OpenGL Version 2.1 compatible 3D-graphics card from NVIDIA or ATI with 256MB (at least as fast as NVIDIA 7600GT or ATi HD3650)
- Windows XP/Vista/7
- A free USB port and a trainer output on your transmitter

Please note: On a computer system matching the minimum system requirements the performance strongly depends on the currently loaded model and scenery.
4D-sceneries only run on the recommended system platform:

Recommended system requirements
- Intel Core 2 Duo or AMD Athlon64 X2
- OpenGL Version 3.1 compatible 3D-graphics card from NVIDIA or ATI with 512 MB. At least as fast as NVIDIA GeForce 8800 or ATI Radeon HD4850
- For optimum sound quality we recommend a high quality standalone PCI soundcard, e.g. creative Audigy.

Mac-Version

Minimum system requirements
- Intel based Apple Mac computer with Mac OS X 10.5 or 10.6
- 1 GB RAM
- 10 GB free hard disc space
- OpenGL Version 2.1 compatible 3D-graphics card from NVDIA or ATI with 256 MB (As fast as NVIDIA 9400 or ATI Radeon HD 2400).
- A free USB port to connect the USB Interface / GameCommander

Recommended System requirements
- 2 GB RAM
- OpenGL Version 2.1 compatible 3D-graphics card from NVDIA or ATI with 512 MB. At least as fast as NVIDIA 9600 or ATI Radeon HD 4850.

Please note: **4D sceneries only run on the recommended system platform.**

Attention: If using the own transmitter, you may need a special adapter!

Please read here about supported transmitters.