

Operating Instructions

UP Profile



UP Profile 20
UP Profile 22
UP Profile Bi



Operating Instructions

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Welcome in our team

Congratulations on the purchase of your new UP Profile rescue system. Although we hope you'll never need it, we assure you that with the UP Profile you have chosen a rescue system that represents the maximum in safety, functionality and quality in our sport. In order to ensure that you get the maximum passive safety out of your reserve parachute we recommend that you take a little time to read this manual and thus become familiar with the functioning, the maintenance and the packing intervals.

Please take a little time to complete and send the reply card found in the back of this manual. This way we can keep you informed of all new products and developments at UP, as well as any technical information about the UP Profile.

We would also be delighted to hear any feedback you have concerning the rescue system. It is only through your feedback that we can continue to develop world-class paragliding equipment that appeal to the majority of pilots.

If you have any questions regarding your rescue system or auxiliary equipment please ask your local dealer or feel free to contact us here at UP directly.

Your UP Europe Team

Safety instructions

Paragliding is an extremely demanding sport requiring the highest levels of attention, judgement, maturity, and self-discipline. Due to the inherent risks in flying, no warranty of any kind can be made against accidents, injury, equipment failure, and/or death. This rescue system is not covered by product liability insurance. Do not use it unless you are personally willing to assume all risks inherent in the sport of paragliding and all responsibility for any property damage, injury, or death, which may result from use of this paraglider rescue system.

Please read this owner's manual thoroughly before your first flight with the UP Profile so that you are fully acquainted with your new rescue system. This manual gives you information on the entire specific and general characteristics of the UP Profile. It is important to note the following points:

- At the time of delivery the UP Profile conforms to German Hang Gliding Association (DHV) requirements (see certification information later in this manual)
- Any changes being made outside the permitted range of adjustment invalidate any and all claims under the warranty
- Using this rescue system is exclusively at the risk of the user; the manufacturer or distributor assumes no responsibility for accidents occurring while using it
- The pilot assumes total responsibility for the use of the rescue system. Before each flight the pilot must perform a mandatory check of the condition of the rescue system

- It is assumed that the pilot is in possession of the necessary qualifications and that provisions of any relevant laws are observed
- When reselling the rescue system please make sure you also give this manual to the new owner. The manual is an integrated part of the rescue system and is required to keep its certification

Technical description

General

The UP Profile is a modern rescue parachute for use with para- and hang gliders. It has been specially developed to show the lowest possible sink rates, the fastest opening time and the highest pendulum stability.

Highlights of the UP Profile

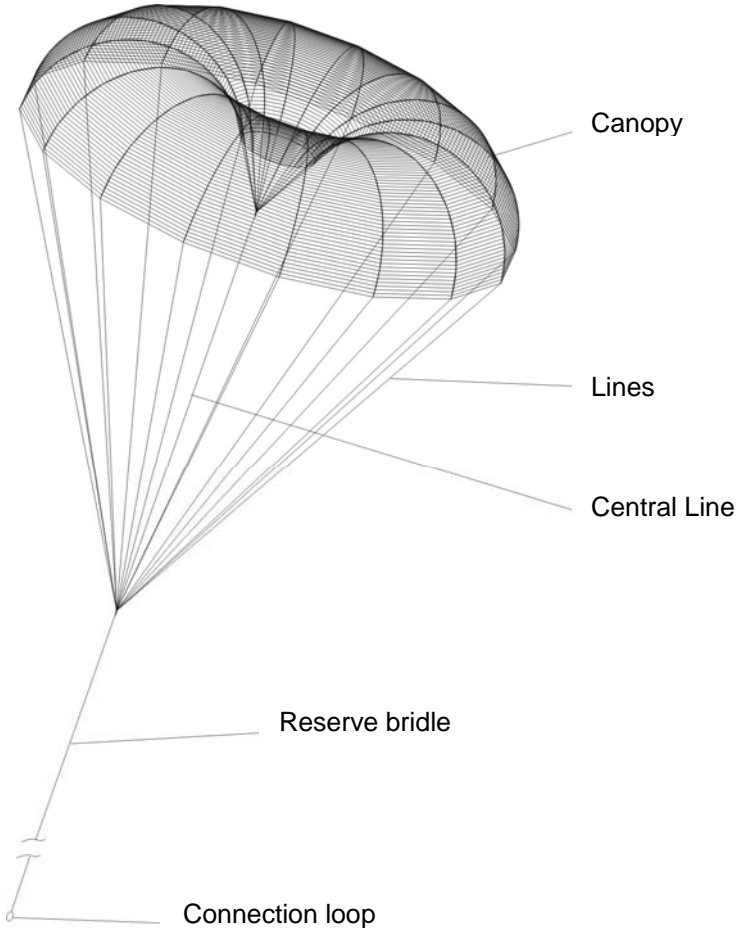
- Built-in pilot chute for faster opening times. The Profile Bi comes without this pilot chute
- Central line
- Easy to pack and minimal packing volume
- Special inner container for reliable and quick opening
- Long-lived, strong materials
- DHV Approval

Technical specifications

Profile	20	22	Bi
Total weight [kg]	2,1	2,6	4,0
Sink Rate [m/s]	5,4	5,5	5,3
Canopy Surface Area [m ²]	27,0	30,0	53,0
Maximum Weight [kg]	100	120	200
Recommended Flying Weight [kg]	100	120	200

Future technical changes/additions as well as the testing certificates will be published in the appendix to this manual.

Overview drawing



Equipment configuration

Canopy, Lines and Bridle

Each canopy, according to its model size, has a different number of panels. In the Profile series, there are two different types of material used in the construction of the canopy itself. The base material in the outer portion of the chute is made of nearly zero porosity fabric; the inner portion (the upper part of the chute) is made of a porous fabric. Both materials are of a ripstop nature. The main seams are reinforced with sewn in tape. The main lines are attached with sewn in „V“ tabs at the base of the skirt. The apex is a pulled-down design. The bridle is manufactured out of high strength webbing with a loop sewn into the end.

The Inner Container

The inner container is made from rip stop nylon just as the deployment handle with the locking pins and the drogue chute.

The Outer Container

The outer container is made from a very durable waterproof ballistic cloth. It has a bottom section, two sides, as well as upper and lower closing flaps.

Necessary documentation

The following papers are an integrated part of the UP Profile reserve parachute, and must follow each canopy throughout its working life:

- The manual
- The packing-card

Usage

The UP Profile series are manually deployed reserve parachutes for para- and hangglider pilots to use in emergencies. Any other usage is dangerous and will invalidate all warranty claims.

Working life limits

The UP Profile has the following limits to its working life:

- 10 years when the inspections follow a 2-year cycle
- Thereafter another two years, with inspections once every year

Using the reserve parachute

If you find yourself in an uncontrollable situation in the air pull hard on the deployment handle. This will open the outer reserve container and release the reserve parachute.

Then throw the reserve package forcefully away from you. If your glider is spiralling/rotating it pays to throw the reserve against the rotation as this will speed up the inflating process. If you have had a collision and find yourself entangled with someone else's glider try to make sure you don't throw the canopy into the entanglement, as this will delay the opening.

The air current, helped by the drogue chute, stretches the lines and peels away the inner container. This releases the actual canopy and lets it open. Once fully open most authorities suggest pulling in or B-lining the paraglider to avoid having the two canopies working against each other while descending in a wide V.

We recommend that you practise this procedure under qualified instruction in a gym (such arrangements are offered by most schools and clubs around the world) and that you have your harness/parachute configuration tested by qualified professionals before flying. It is also a good idea to go through the entire deployment procedure before each flight to ensure that you are mentally prepared in the event that you suddenly need to use your UP Profile reserve parachute.

Checking the parachute system

Before packing the UP Profile it must be checked by a certified parachute rigger. In case the parachute has been deployed in earnest it must be sent to the manufacturer or to a manufacturer-approved checking facility for a complete check-up. Whenever re-packing an already packed parachute make sure that it remains deployable after installing it in the paragliding harness. This procedure is called the Compatibility Test and must be performed each time the parachute is installed in a harness. One of the things that must be verified is that the necessary deployment force should be between 5 and 12 kN – if lower a piece of thread in the form of a rupture joint solves the problem (see the “Rupture point” chapter).

Packing the Reserve Canopy

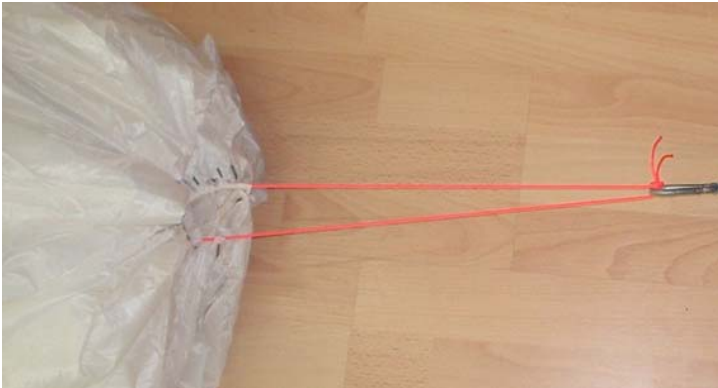
Lay out and arrange the UP Profile

The UP Profile, and indeed all parachutes, should be opened and aired for at least a day before re-packing. This eliminates any humidity present in the fabric. The packing operation is best done on a rigging table or at least on a clean flat surface.

The parachute is stretched out on the packing surface. Insert a temporary line in the tabs at the vertex of the chute through the sewn-in tabs (Picture 1A). Attach the bridle to the other end of the table, stretching out the canopy tight between the temporary line and the bridle (Picture 1B).



Picture 1A



Picture 1B

In order to maintain an even pull on the entire parachute with lines we suggest you suspend a weight (your harness or a sand bag) off the bridle hanging over the edge of the table.

The lines are to be inspected for damage and to ensure that they are straight. To accomplish this, take any two adjacent lines, for example, Pos. 1 and 20, and walk them down to the bridle, checking for any cross-tangles. If there are any tangles, continue this process, looping the bridle through the crossed line at the juncture of the lines and the bridle until all tangles have been removed.

Flaking the Canopy

The following example describes folding the Profile 20, which has 20 panels and lines. Folding of other canopies would follow a similar pattern; only the number of panels and lines would be different.

One takes Line No 1 (of the main support lines) and counts half of the lines, (in this case of the Profile 20, 10 lines) and lays them together on one side.

Now, with Lines 1-10 on the right, arrange Lines 11-20 on the left. The flaking of the panels now begins with panel/line No. 10. To this end, one after another, the panels from No. 10 to No. 1 are picked up and flaked-folded, holding the stacked lines between the thumb and fore-finger.

Once the Lines Nos. 10-1 have been folded, move the bundle of lines so that they are now held between the fore finger and the middle finger. Now, Panel/Line Nos. 20-1 can also be flaked-folded between the thumb and forefinger, placing each successive line on top of the previously stacked lines.

The canopy is now laid back down on the table in such a manner that the bundles of panels are divided, with the highest No. Panel (in this case No. 20) on the left. Now straighten the apex of the canopy to make all the panels even. The canopy is then weighted down as illustrated (Picture 2A).



Picture 2A

If you are using a line-comb now is the time to “comb” the lines, working from the top down. The combing can also be done with your hands and ensures that there are no tangles or mistakenly placed panels/lines before you move on to the next step.

Also make sure that you now have the panel with the stamp on it (in this case the no. 20) lying on top on the left.

Now you move to the vertex of the parachute and sort the top of each panel. Then weigh down with a sand bag (Picture 2B).



Picture 2B

Next you place the line bundles on the left (corresponding to panel no. 20 to 11) left of the centre line, the line bundle on the right (panels 1 to 10) right of the centre line (Picture 2C and 2D).



Picture 2C



Picture 2D

Now fold the canopy in a large “S” so that the lines end up coming out of the middle of the “S” (Picture 3A and 3B).



Picture 3A



Picture 3B

Again weigh the canopy down with sand bags (see Picture 3C).



Picture 3C

Notice! Now is the time to remove the packing line threaded through the packing loops at the vertex of the canopy (Picture 3D). Failing to do so will render the parachute dysfunctional!



Picture 3D

Packing the canopy in the inner container

Once again make sure you have removed the packing line from the tabs at the vertex of the parachute. If this line is not removed, the parachute will not open!

Then begin “Z-ing” the canopy into the back of the inner container, working from the vertex down (Picture 4A).



Picture 4A

It is helpful to have the sand bags still weighing the folded canopy down so that the “Z”s can be introduced cleanly into the inner container (Picture 4B). Continue all the way to the basis.



Picture 4B

In order to temporarily keep the container closed while sorting and attaching the lines it makes sense to use one loop of lines and one of the closing rubber bands to keep it closed (Picture 5).



Picture 5

The lines are then “S-ed” three to four times into four bundles and secured with suitable rubber bands (available from your normal flying equipment provider). Done correctly you should now have 4 bundles and still approximately 50 cm of free line to use for closing the inner container when all the bundles have been stored inside (Picture 6).



Picture 6

If you have temporarily secured the container opening with the one line loop through the closing rubber band (Picture 5), now re-open it and store the four line bundles inside.

Closing the Inner Container

The closing flap of the inner container is secured, first in the middle, by looping the excess 50cms of line through the closing rubber band. Then loop it through first the right, then the left side (Picture 7). Take care to keep the lines well sorted, with each line matching the others in the length of the loop passed through the rubber bands.



Picture 7

Closing the outer container

Harnesses with built-in reserve

Almost all modern paraglider harnesses have a built-in container for the reserve parachute. We recommend always using this container for your UP Profile parachute.

When installing the UP Profile in the harness, please follow the instructions delivered with your harness. This is also the place to look for information regarding the closing of the outer container. Further info to this topic in the “Installing the reserve in a harness” chapter.

Harnesses with no built-in reserve container

For harnesses with no built-in reserve container UP offers two different outer container solutions, the best one being the front-mounted container, and a universal container for mounting on either side of the harness.

When using the universal container please note the following:

Excess reserve bridle is stored inside the outer container in neat S's, and then the bridle is routed out of either the upper left or the upper right corner of the container, depending on how you intend to attach the container to your harness.

The inner container is placed on top of the bridle S's with the opening facing downwards, and the drogue chute neatly draped around it. Make sure the loop where the deployment handle is attached is in the middle, and facing upwards.

Then close the two lateral flaps and the lower flap, and secure them with the pins. Close the last flap, securing it with the Velcro and your reserve is again ready to use.

The Packing Card

Each pack should contain a current inspection card recording the date, name, and signature of the packer/checker as well as the location of the approved inspection site.

Installing the UP Profile in a harness

The UP Profile can be used in conjunction with most approved harnesses on the market, but UP cannot guarantee that it will function perfectly with every available harness.

Notice! Always make sure that you perform a compatibility test harness/reserve when you have installed your reserve in the harness. This is done by hanging the harness in a flying position, buckling up and then deploying the reserve. If there is ANY PROBLEM the harness/reserve combination may be dangerous to fly!

Should you still have doubts or questions we suggest that you contact your UP dealer or UP directly.

Mounting the UP Profile outer container on your harness

If you fly a harness without a built-in reserve container you can mount the UP Profile in its outer container on the harness.

First connect the UP Profile bridle with the harness' reserve bridle, using the special "handshake" knot.

Then attach the outer container left or right, using the Velcro connectors on the back of the outer container. Make sure it is securely attached and that it does not obstruct any other part of your flying equipment, like speedbar or harness adjustments.

Installing the UP Profile in a harness with integrated reserve container

When installing the UP Profile in a harness please follow the user manual delivered with the harness. The following directions must however always be adhered to:

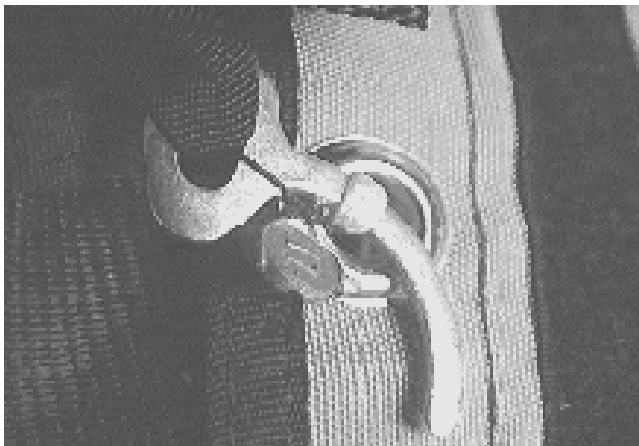
- Use only the original deployment handle delivered with the harness. Using other handles will compromise your safety
- If your inner container has an asymmetrically located attachment loop for the deployment handle make sure that you turn the inner container in such a way that the attachment loop is orientated towards the direction of the deployment pull. Failing to do so may render your parachute un-deployable
- Also make sure that the connection between handle and pin is shorter than between handle and inner container. If the opposite is the case you may find yourself pulling on the container when attempting to deploy, without releasing the pin
- Attach the deployment handle in such a way that the connection band is not fully stretched out – this could result in involuntary deployment because the pin could get pulled out
- After each repack the whole system must be tested and tried; see “Compatibility check” above!

If you are in any way insecure about the installing of your reserve parachute please leave it to trained professionals to do. Mounting a reserve parachute wrongly may severely compromise your safety in the event of a glider mishap.

Safety rupture thread

DHV (German Hang glider Federation) recommends a minimum deployment force of 5 daN (5 kg applied to the deployment handle in the correct direction) to avoid involuntary deployments. Due to the size and design of the UP Profile integrated reserve container it is however possible that deploying the reserve will require less force than that.

Should this be the case we recommend the use of a small piece of cotton thread between the locking pin and the closing loop on the reserve container (see illustration). This is a simple, cheap and efficient way to eliminate involuntary deployments, but always take care to test the system on the ground before flying with it.



Notice! The thread, locking pin and the proper installation of the inner container should be checked before each flight. Use only suitable thread – it must not be too strong!

Deployment

When pulling the deployment handle the first thing to give is the cotton thread. Then the locking pin is pulled out and the outer container opens. The deployment handle is attached to the inner container through the connection strap and allows the pilot to forcefully throw the reserve in the desired direction, away from the main canopy.

When installing the reserve system make sure that the deployment sequence is as described here. Any other sequence means danger!

Compatibility

The installation of the integrated reserve container and the installation of a reserve parachute therein should be approved by the manufacturer of the harness or reserve parachute. This to ensure that the configuration works properly and that all installations have been carried out correctly.

After each packing a test release should be done in order to guarantee the normal function of the emergency parachute. The deployment of the emergency parachute must be feasible from each possible flight position.

Be sure to fully deploy the inner container so that you can verify that it comes out all right.

Further tips

The changing of any aspect of the UP profile invalidates any and all warranty claims.

Flying with the UP Profile mounted in the harness in very humid/salty environments may accelerate the

ageing process. If your flying environment is extraordinarily aggressive make sure you have your reserve repacked and checked more often than the normal check interval.

Also make sure that no insects are caught inside the parachute when packing it – many insects contain quite strong acids that could damage the fabric!

Maintenance and cleaning

Taking care of your UP Profile

The UP Profile was developed for long-lasting intensive use. Only the best and most long-lived materials have been used, materials that have proven their worth over years of use in the production of quality reserve parachutes.

However the actual service time that you will get out of your new rescue system depends to a high degree on the way you treat it! Always beware that the condition of your rescue system is closely linked to your own personal safety. Check it frequently for signs of wear and have damaged components replaced immediately by UP authorised repair facilities.

Take special care to check all structural stitching. Any damaged stitching must be repaired immediately by a UP authorised repair facility.

Furthermore you are always welcome to send your harness to UP Europe for checks and repairs!

To avoid unnecessary weakening of the UP Profile rescue system we recommend the following precautions:

- Avoid fire and sharp objects near the rescue system
- Should the parachute get wet it must be opened, dried out and repacked. A wet, or even just a humid reserve parachute may not function properly.
- Should your parachute be exposed to excessive mechanical abrasion it must be returned to UP for

checking. One example could be the harness with the reserve mounted being run over by a car. If in doubt always return your parachute to UP for professional checking.

- Avoid unnecessary UV exposure (sunlight). UV radiation affects the molecular structure of the materials used for the rescue system and will weaken it if exposed for longer periods
- Avoid exposure to salt water or acids. Should the parachute become exposed to salt water it must be rinsed with fresh water, dried and repacked
- If you find yourself hanging under your parachute from a tree, check it very carefully for wood resin. Resin may impede future opening of the parachute
- UP recommends repacking the parachute every 6 months

Cleaning

If you must clean your UP Profile do so with lukewarm water and a soft sponge. Difficult spots could be removed using a mild detergent, or they could be left alone (better!). Make sure you do not expose seams to detergent and rinse well afterwards.

Notice! Never use chemicals, brushes or hard sponges on your UP Profile. Any of these could damage the fabric and or the fabric coating!

Maintenance and control

Paragliding is a fascinating sport. To silently glide over it all, free as a bird...But we must approach the sport responsibly. This is the reason why UP is much more than a paraglider and accessories manufacturer. We apply our extensive know-how to the entire sport, offering a number of services targeted around the inherent safety of your equipment.

Our competent staff are all pro's with many years of experience behind them. We are pilots just like yourself and we understand the importance of being able to rely 100% on the equipment. Your gear is in good hands with us!

Packing and checking reserve parachutes

Please remember that only by regularly re-packing your reserve parachute it's perfect functioning can be guaranteed. As with the paraglider, the reserve should be checked every second year by the manufacturer. Adhere to the packing intervals stipulated by the manufacturer of the reserve system.

We are also happy to check/repack your UP Profile at shorter intervals should your particular usage warrant such checking.

UP Europe offers a complete service package for reserve systems; checking, packing and installation in the harness, all performed by certified packers. We also repair UP Profile reserve parachutes.

Our experience – your safety!

Repairs

If your UP Profile should become damaged it must be returned to UP, or to a UP Service Center for repairs.

Sending the UP Profile and other UP products

The best way to send your paraglider, rescue parachute, harness etc. to our service team is in a box via post or UPS. Enclose a note of what requires doing (2 Year Check, repair, repack etc.) and also your daytime contact details. We will return your equipment either by post or UPS. Please indicate preferred method of payment (either bank cheque or C o d)/

Should you require any further information about the services we offer, please contact us at the address and phone number below. We are also able to give you information about your nearest Authorised Service Centre, as well as other manufacturers who are authorised to check and repair UP gliders and equipment.

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UP Homepage

The UP Homepage gives you information about the latest news and products from UP. You will find any technical information and accessories for your UP Profile, as well as many useful things that are necessary for flying.

Beside paragliders, harnesses and flying equipment you will also find the new “Skywear” collection with the latest flying garments and the “News” section, which will keep you updated with all activities around UP.

www.up-europe.com

Attachments

Reply Card	38
DHV certificate UP Profile	40

Reply card

Detach card along the perforation and send it to UP Europe!

Surname: _____

First name: _____

Address: _____

Phone: _____

Fax: _____

Email: _____

UP Profile serial number: _____

bought at: _____

UP Profile checked by: _____

My current flying qualification: _____

hours: _____

Paragliding learnt at: _____

Ultralite Products Europe GmbH
Altjoch 19 A

D-82431 Kochel am See



Herstellerangaben zum Luftsportgeräte-Kennblatt

Gleitsegelgurtzeuge (GSG)

I. Musterprüfung

1. Gerätemuster: **UP Profile L**
2. Hersteller: **UP Sportartikel Vertrieb Europa GmbH**

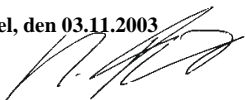
II. Merkmale und Betriebsgrenzen

1. Gurtzeuggruppe: **GH**
2. Gerätemasse (kg): **3,3**
3. Max. zulässiges Anhängemasse (kg): **100**
4. Integrierter Rettungsgeräte-Aussencontainer: **ja**
5. Gurtzeugprotector-Muster: **UP Protec 12 (S)**
- 6 Sonstige Besonderheiten:
Zulassung nur in Verbindung mit zusätzlich integrierten Protector

III. Betriebsanweisung in der Fassung vom: 01.11.03

Ort, Datum, Stempel und Unterschrift des Herstellers:

Kochel, den 03.11.2003



UP EUROPE

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Bearbeitungsvermerk DHV:

Kennblatt geprüft
am:

von:

