UP RIMO 2 L

Inflation/take-off

Control movement

Type designation UP Rimo 2 L

Type test reference no DHV GS-01-2964-25

Holder of certification UP International GmbH

Manufacturer UP International GmbH

**Classification** A

Winch towing Yes

Number of seats min / max 1/1

**Accelerator** Yes

**Trimmers** No



BEHAVIOUR AT MIN WEIGHT IN BEHAVIOUR AT MAX FLIGHT (95KG) WEIGHT IN FLIGHT (140KG)

Test pilots



**Beni Stocker** No release

Mario Eder No release

Rising behaviour Smooth, easy and constant rising Smooth, easy and constant rising Special take off technique required No No Α Special landing technique required No

Speeds in straight flight A Trim speed more than 30 km/h Yes

Speed range using the controls larger than 10 Yes Yes km/h

> Minimum speed Less than 25 km/h Less than 25 km/h

Symmetric control pressure Increasing Symmetric control travel Greater than 60 cm Greater than 65 cm

Pitch stability exiting accelerated flight

**Dive forward angle on exit** Dive forward less than 30° Dive forward less than 30° Collapse occurs No

Pitch stability operating controls during accelerated flight

Collapse occurs No

Roll stability and damping A **Oscillations** Reducing Reducing

Stability in gentle spirals A

Tendency to return to straight flight Spontaneous exit Spontaneous exit

Behaviour exiting a fully developed spiral dive A

Initial response of glider (first 180°) Immediate reduction of rate of turn Tendency to return to straight flight Spontaneous exit (g force decreasing, rate of turn decreasing)

Turn angle to recover normal flight Less than 720°, spontaneous recovery

Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous recovery

Symmetric front collapse	A	A
Entry	Rocking back less than 45°	Rocking back less than 45°
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit		Dive forward 0° to 30°
Change of course	Entering a turn of less than 90°	Entering a turn of less than 90°
Cascade occurs	No	No
Folding lines used	no	no
Unaccelerated collapse (at least 50 % chord)	¦A	A
Entry	Rocking back less than 45°	Rocking back less than 45°
-	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
Change of course	Entering a turn of less than 90°	Entering a turn of less than 90°
Cascade occurs	No	No
Folding lines used	no	no
Accelerated collapse (at least 50 % chord)	A	A
Entry	Rocking back less than 45°	Rocking back less than 45°
-	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	•	Dive forward 0° to 30°
	Entering a turn of less than 90°	Entering a turn of less than 90°
Cascade occurs	No	No
Folding lines used	no	no
Exiting deep stall (parachutal stall)	A	A
Deep stall achieved	Voc	Yes
-	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit		Dive forward 0° to 30°
_	Changing course less than 45°	Changing course less than 45°
Cascade occurs		No
High angle of attack recovery	А	A
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Cascade occurs	No	No
Recovery from a developed full stall	A	A
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
Collapse	No collapse	No collapse
Cascade occurs (other than collapses)	No	No
Rocking back	Less than 45°	Less than 45°
Line tension	Most lines tight	Most lines tight
		Most lines tight
Small asymmetric collapse	A	A
·	·	1
Change of course until re-inflation	Less than 90°	Į <b>A</b>
Change of course until re-inflation Maximum dive forward or roll angle	Less than 90°	Less than 90°
Change of course until re-inflation Maximum dive forward or roll angle	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation	Less than 90° Dive or roll angle 0° to 15°
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation)	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation)
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneoure inflation) No No
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No no	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No no
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Change of course until re-inflation	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No No Less than 90°	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No No Less than 90°
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation Maximum dive forward or roll angle	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No No Less than 90°	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneoure inflation) No No no
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation Maximum dive forward or roll angle	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation)  No No no  A Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No No Dive or roll angle 15° to 45°

Twist occurs	No	No
Cascade occurs	No	No
Folding lines used	no	no
	1	1
Small asymmetric collapse accelerated	<u> </u>	¦A
Change of course until re-inflation		Less than 90°
Maximum dive forward or roll angle		Dive or roll angle 15° to 45°
	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course		Less than 360°
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous re inflation)	No (or only a small number of collapsed cells with a spontaneous re inflation)
Twist occurs	No	No
Cascade occurs	No	No
Folding lines used	no	no
Large asymmetric collapse accelerated	A	A
Change of course until re-inflation	Less than 90°	Less than 90°
Maximum dive forward or roll angle		Dive or roll angle 15° to 45°
	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course	'	Less than 360°
_	No (or only a small number of collapsed	No (or only a small number of
conapse on the opposite state estatis	cells with a spontaneous re inflation)	collapsed cells with a spontaneous re inflation)
Twist occurs	No	No
Cascade occurs	No	No
Folding lines used	no	no
Directional control with a maintained asymmetric collapse	A	A
Able to keep course	Yes	Yes
180° turn away from the collapsed side		Yes
possible in 10 s		
Amount of control range between turn and stall or spin		More than 50 % of the symmetric control travel
Trim speed spin tendency	A	A
Spin occurs	No	No
Low speed spin tendency	A	A
L	1	A No
Spin occurs	1	No .
<u> </u>	1	<u> </u>
Spin occurs	No A Stops spinning in less than 90°	No .
Spin occurs  Recovery from a developed spin  Spin rotation angle after release	No A Stops spinning in less than 90°	No  A  Stops spinning in less than 90°
Spin occurs Recovery from a developed spin Spin rotation angle after release Cascade occurs	No  A  Stops spinning in less than 90°  No	No  A  Stops spinning in less than 90°  No
Spin occurs  Recovery from a developed spin  Spin rotation angle after release  Cascade occurs  B-line stall  Change of course before release	No  A  Stops spinning in less than 90° No  A  Changing course less than 45°	No  A  Stops spinning in less than 90° No  A  Changing course less than 45°
Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release	A Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span	No  A  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span
Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery	No  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s	No  A  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s
Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release	No  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°	No  A  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span
Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit	No  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°	No  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°
Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit	No  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°	No  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°
Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs	A Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No	No  A  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s  Dive forward 0° to 30° No
Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs	No  Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A Dedicated controls	No  A Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No
Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs  Big ears  Entry procedure Behaviour during big ears	No  Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A Dedicated controls	No  A Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A Dedicated controls
Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs  Big ears  Entry procedure Behaviour during big ears	A Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A Dedicated controls Stable flight Spontaneous in less than 3 s	No  A Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A Dedicated controls Stable flight
Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs  Big ears  Entry procedure Behaviour during big ears Recovery	A Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A Dedicated controls Stable flight Spontaneous in less than 3 s	No  A  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A  Dedicated controls Stable flight Spontaneous in less than 3 s
Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs  Big ears  Entry procedure Behaviour during big ears Recovery Dive forward angle on exit	A Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	No  A  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A  Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°
Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs  Big ears  Entry procedure Behaviour during big ears Recovery Dive forward angle on exit	A Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	A Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°

# Dive forward angle on exit Dive forward 0° to 30° Behaviour immediately after releasing the Stable flight accelerator while maintaining big ears

Dive forward 0° to 30° Stable flight

Alternative means of directional control	A	A
180° turn achievable in 20 s	Yes	Yes
Stall or spin occurs	No	No
Any other flight procedure and/or configuratio	n described in the user's manual	

UP RIMO 2 M

Control movement

Type designation UP Rimo 2 M

Type test reference no DHV GS-01-2965-25

Holder of certification UP International GmbH

Manufacturer UP International GmbH

**Classification** A

Winch towing Yes

Number of seats min / max 1/1

**Accelerator** Yes

Test pilots

**Trimmers** No

BEHAVIOUR AT MIN WEIGHT IN BEHAVIOUR AT MAX FLIGHT (80KG)



**WEIGHT IN FLIGHT (120KG)** 



**Beni Stocker** 

No release

No release

Less than 25 km/h

Inflation/take-off	A	Α
	kising behaviour Smooth, easy and constant rising	Smooth, easy and constant rising
Special take off tec	hnique required No	No
Landing	А	A
Special landing tec	<b>hnique required</b> No	No
Speeds in straight flight	A	A
Trim speed mor	e than 30 km/h Yes	Ves

Trim speed more than 30 km/h Yes Speed range using the controls larger than 10 Yes Yes km/h

Minimum speed Less than 25 km/h

Symmetric control pressure Increasing	Increasing
Symmetric control travel Greater than 60 cm	Greater than 65 cm

Pitch stability exiting accelerated flight Dive forward less than 30° **Dive forward angle on exit** Dive forward less than 30°

Collapse occurs No

Pitch stability operating controls during accelerated flight	A	Α
Collapse occu	rs No	No

Roll stability and damping Α

Oscillatio	ons Reducing	Reducing	

Stability in gentle spirals

Tendency to return to straight flight Spontaneous exit Spontaneous exit

Behaviour exiting a fully developed spiral dive A Initial response of glider (first 180°) Immediate reduction of rate of turn Tendency to return to straight flight Spontaneous exit (g force decreasing, rate of turn decreasing)

Turn angle to recover normal flight Less than 720°, spontaneous recovery

Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous recovery

Symmetric front collapse	A	A
Entry	Rocking back less than 45°	Rocking back less than 45°
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit		Dive forward 0° to 30°
Change of course	Entering a turn of less than 90°	Entering a turn of less than 90°
Cascade occurs	No	No
Folding lines used	no	no
Unaccelerated collapse (at least 50 % chord)	¦A	A
Entry	Rocking back less than 45°	Rocking back less than 45°
-	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
Change of course	Entering a turn of less than 90°	Entering a turn of less than 90°
Cascade occurs	No	No
Folding lines used	no	no
Accelerated collapse (at least 50 % chord)	A	A
Entry	Rocking back less than 45°	Rocking back less than 45°
-	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	•	Dive forward 0° to 30°
	Entering a turn of less than 90°	Entering a turn of less than 90°
Cascade occurs	No	No
Folding lines used	no	no
Exiting deep stall (parachutal stall)	A	A
Deep stall achieved	Voc	Yes
-	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit		Dive forward 0° to 30°
_	Changing course less than 45°	Changing course less than 45°
Cascade occurs		No
High angle of attack recovery	А	A
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Cascade occurs	No	No
Recovery from a developed full stall	A	A
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
Collapse	No collapse	No collapse
Cascade occurs (other than collapses)	No	No
Rocking back	Less than 45°	Less than 45°
Line tension	Most lines tight	Most lines tight
		Most lines tight
Small asymmetric collapse	A	A
·	·	1
Change of course until re-inflation	Less than 90°	Į <b>A</b>
Change of course until re-inflation Maximum dive forward or roll angle	Less than 90°	Less than 90°
Change of course until re-inflation Maximum dive forward or roll angle	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation	Less than 90° Dive or roll angle 0° to 15°
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation)	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation)
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneoure inflation) No No
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No no	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No no
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Change of course until re-inflation	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No No Less than 90°	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No No Less than 90°
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation Maximum dive forward or roll angle	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No No Less than 90°	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneoure inflation) No No no
Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Twist occurs Cascade occurs Folding lines used Large asymmetric collapse Change of course until re-inflation Maximum dive forward or roll angle	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation)  No No no  A Less than 90° Dive or roll angle 15° to 45° Spontaneous re-inflation	Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No No Dive or roll angle 15° to 45°

Twist occurs	No	No
Cascade occurs	No	No
Folding lines used	no	no
	1	1
Small asymmetric collapse accelerated	<u> </u>	¦A
Change of course until re-inflation		Less than 90°
Maximum dive forward or roll angle		Dive or roll angle 15° to 45°
	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course		Less than 360°
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous re inflation)	No (or only a small number of collapsed cells with a spontaneous re inflation)
Twist occurs	No	No
Cascade occurs	No	No
Folding lines used	no	no
Large asymmetric collapse accelerated	A	A
Change of course until re-inflation	Less than 90°	Less than 90°
Maximum dive forward or roll angle		Dive or roll angle 15° to 45°
	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course	'	Less than 360°
_	No (or only a small number of collapsed	No (or only a small number of
conapse on the opposite state estatis	cells with a spontaneous re inflation)	collapsed cells with a spontaneous re inflation)
Twist occurs	No	No
Cascade occurs	No	No
Folding lines used	no	no
Directional control with a maintained asymmetric collapse	A	A
Able to keep course	Yes	Yes
180° turn away from the collapsed side		Yes
possible in 10 s		
Amount of control range between turn and stall or spin		More than 50 % of the symmetric control travel
Trim speed spin tendency	A	A
Spin occurs	No	No
Low speed spin tendency	A	A
L	1	A No
Spin occurs	1	No .
<u> </u>	1	<u> </u>
Spin occurs	No A Stops spinning in less than 90°	No .
Spin occurs  Recovery from a developed spin  Spin rotation angle after release	No A Stops spinning in less than 90°	No  A  Stops spinning in less than 90°
Spin occurs Recovery from a developed spin Spin rotation angle after release Cascade occurs	No  A  Stops spinning in less than 90°  No	No  A  Stops spinning in less than 90°  No
Spin occurs  Recovery from a developed spin  Spin rotation angle after release  Cascade occurs  B-line stall  Change of course before release	No  A  Stops spinning in less than 90° No  A  Changing course less than 45°	No  A  Stops spinning in less than 90° No  A  Changing course less than 45°
Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release	A Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span	No  A  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span
Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery	No  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s	No  A  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s
Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release	No  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°	No  A  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span
Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit	No  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°	No  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°
Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit	No  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°	No  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°
Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs	A Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No	No  A  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s  Dive forward 0° to 30° No
Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs	No  Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A Dedicated controls	No  A Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No
Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs  Big ears  Entry procedure Behaviour during big ears	No  Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A Dedicated controls	No  A Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A Dedicated controls
Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs  Big ears  Entry procedure Behaviour during big ears	A Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A Dedicated controls Stable flight Spontaneous in less than 3 s	No  A Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A Dedicated controls Stable flight
Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs  Big ears  Entry procedure Behaviour during big ears Recovery	A Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A Dedicated controls Stable flight Spontaneous in less than 3 s	No  A  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A  Dedicated controls Stable flight Spontaneous in less than 3 s
Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs  Big ears  Entry procedure Behaviour during big ears Recovery Dive forward angle on exit	A Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	No  A  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A  Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°
Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs  Big ears  Entry procedure Behaviour during big ears Recovery Dive forward angle on exit	A Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	A Stops spinning in less than 90° No  A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A Dedicated controls Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°

# Dive forward angle on exit Dive forward 0° to 30° Behaviour immediately after releasing the Stable flight accelerator while maintaining big ears

Dive forward 0° to 30° Stable flight

Alternative means of directional control	A	A
180° turn achievable in 20 s	Yes	Yes
Stall or spin occurs	No	No
Any other flight procedure and/or configuratio	n described in the user's manual	

**UP RIMO 2 SM** 

Type designation UP Rimo 2 SM

Type test reference no DHV GS-01-2966-25

Holder of certification UP International GmbH

Manufacturer UP International GmbH

**Classification** A

Winch towing Yes

Number of seats min / max 1/1

**Accelerator** Yes

Test pilots

**Trimmers** No

BEHAVIOUR AT MIN WEIGHT IN BEHAVIOUR AT MAX FLIGHT (70KG)



**WEIGHT IN FLIGHT (105KG)** 



	Josef Bauer	Mario Edei
	No release	No release
Inflation/take-off	A	A

Kisilig Deliavioui	Sillouti, easy and constant rising	Sillouti, easy and constant rising
Special take off technique required	No	No

Landing	A	A	
Special landing techni	ique required No	No	
Speeds in straight flight	A	A	

Trim speed more than 30 km/h Yes	Yes
Speed range using the controls larger than 10 Yes	Yes
km/h	

**Dive forward angle on exit** Dive forward less than 30°

	Minimum speed Less than 25 km/h	Less than 25 km/h	
Control movement	A	A	
Symmetric	control pressure Increasing	Increasing	
Symme	tric control travel Greater than 55 cm	Greater than 65 cm	
Pitch stability exiting acceler	ated flight A	Α	

Collapse occurs No		No	
Pitch stability operating controls during	A	A	

accererated inight			
	Collapse occurs No	No	
Roll stability and damping	A	A	

Roll stability and damping	A	A
	Oscillations Reducing	Reducing

Stability in gentle spirals	A	Α
Tendency to return to straight fligh	<b>t</b> Spontaneous exit	Spontaneous exit

Tendency to return to straight flight Spontaneous exit	Spontaneous exit
Behaviour exiting a fully developed spiral dive A	A

Initial response of glider (first 180°)	Immediate reduction of rate of turn
Tendency to return to straight flight	Spontaneous exit (g force decreasing,
	rate of turn decreasing)

Turn angle to recover normal flight Less than 720°, spontaneous recovery

Immediate reduction of rate of turn Spontaneous exit (g force decreasing, rate of turn decreasing) Less than 720°, spontaneous recovery

Dive forward less than 30°

Comments from college	i.a	14
Symmetric front collapse	Pocking back lose than 450	Rocking back less than 45°
-	Rocking back less than 45°	•
	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit		Dive forward 0° to 30°
Change of course		Keeping course
Cascade occurs		No
Folding lines used	110	no
Unaccelerated collapse (at least 50 % chord)	A	A
Entry	Rocking back less than 45°	Rocking back less than 45°
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
Change of course		Keeping course
Cascade occurs		No
Folding lines used	no	no
Accelerated collapse (at least 50 % chord)	A	A
Entry	Rocking back less than 45°	Rocking back less than 45°
-	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	•	Dive forward 0° to 30°
Change of course	Keeping course	Keeping course
Cascade occurs	No	No
Folding lines used	no	no
Exiting deep stall (parachutal stall)	A	!A
	4	. 4
Deep stall achieved		Yes
	Spontaneous in less than 3 s	Spontaneous in less than 3 s Dive forward 0° to 30°
Dive forward angle on exit	Changing course less than 45°	Changing course less than 45°
Cascade occurs		No
High angle of attack recovery	Δ	Δ
	Spontaneous in less than 3 s	Spontaneous in less than 3 s
	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Recovery Cascade occurs	Spontaneous in less than 3 s	Spontaneous in less than 3 s No
Recovery Cascade occurs Recovery from a developed full stall	Spontaneous in less than 3 s No	Spontaneous in less than 3 s No
Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit	Spontaneous in less than 3 s No A Dive forward 0° to 30°	Spontaneous in less than 3 s No  A  Dive forward 0° to 30°
Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit Collapse	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse
Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses)	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse No	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse No
Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No Less than 45°	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse
Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse No	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse No Less than 45°
Recovery Cascade occurs  Recovery from a developed full stall  Dive forward angle on exit  Collapse Cascade occurs (other than collapses)  Rocking back Line tension	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse No Less than 45° Most lines tight	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse No Less than 45°
Recovery Cascade occurs  Recovery from a developed full stall  Dive forward angle on exit  Collapse  Cascade occurs (other than collapses)  Rocking back  Line tension  Small asymmetric collapse  Change of course until re-inflation	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No Less than 45°  Most lines tight  A  Less than 90°	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No  Less than 45°  Most lines tight  A  Less than 90°
Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension Small asymmetric collapse Change of course until re-inflation Maximum dive forward or roll angle	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse No Less than 45° Most lines tight  A  Less than 90° Dive or roll angle 0° to 15°	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No  Less than 45°  Most lines tight  A  Less than 90°  Dive or roll angle 0° to 15°
Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension Small asymmetric collapse Change of course until re-inflation Maximum dive forward or roll angle	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse No Less than 45° Most lines tight  A  Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse No Less than 45° Most lines tight  A  Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation
Cascade occurs  Recovery from a developed full stall  Dive forward angle on exit  Collapse  Cascade occurs (other than collapses)  Rocking back  Line tension  Small asymmetric collapse  Change of course until re-inflation  Maximum dive forward or roll angle  Re-inflation behaviour  Total change of course	Spontaneous in less than 3 s No  A Dive forward 0° to 30° No collapse No Less than 45° Most lines tight  A Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360°	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse No Less than 45° Most lines tight  A  Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360°
Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension Small asymmetric collapse Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse No Less than 45° Most lines tight  A  Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse No Less than 45° Most lines tight  A  Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation
Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension Small asymmetric collapse Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour	Spontaneous in less than 3 s No  A Dive forward 0° to 30° No collapse No Less than 45° Most lines tight  A Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation)	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No  Less than 45°  Most lines tight  A  Less than 90°  Dive or roll angle 0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous
Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension Small asymmetric collapse Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No Less than 45° Most lines tight  A  Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360°  No (or only a small number of collapsed cells with a spontaneous re inflation)  No	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No Less than 45°  Most lines tight  A  Less than 90°  Dive or roll angle 0° to 15°  Spontaneous re-inflation Less than 360°  No (or only a small number of collapsed cells with a spontaneo re inflation)
Recovery Cascade occurs Recovery from a developed full stall  Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  Small asymmetric collapse  Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No Less than 45° Most lines tight  A  Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation)  No No	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No  Less than 45°  Most lines tight  A  Less than 90°  Dive or roll angle 0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneo re inflation)  No
Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension Small asymmetric collapse Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Cascade occurs Folding lines used	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No Less than 45° Most lines tight  A  Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation)  No No	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No  Less than 45°  Most lines tight  A  Less than 90°  Dive or roll angle 0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneo re inflation)  No  No
Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension Small asymmetric collapse  Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Cascade occurs Folding lines used	Spontaneous in less than 3 s No  A  Dive forward 0° to 30° No collapse No Less than 45° Most lines tight  A  Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation) No No No no	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No Less than 45° Most lines tight  A  Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneo re inflation)  No No no
Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension Small asymmetric collapse  Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Cascade occurs Folding lines used Large asymmetric collapse  Change of course until re-inflation	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No  Less than 45°  Most lines tight  A  Less than 90°  Dive or roll angle 0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous re inflation)  No  No  No  No  No  Less than 90°	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No  Less than 45°  Most lines tight  A  Less than 90°  Dive or roll angle 0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneo re inflation)  No  No  No  No  Less than 90°
Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension Small asymmetric collapse  Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Cascade occurs Folding lines used Large asymmetric collapse  Change of course until re-inflation Maximum dive forward or roll angle	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No  Less than 45°  Most lines tight  A  Less than 90°  Dive or roll angle 0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneous re inflation)  No  No  No  No  Dive or roll angle 15° to 45°	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No  Less than 45°  Most lines tight  A  Less than 90°  Dive or roll angle 0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneo re inflation)  No  No  No  no  A  Less than 90°  Dive or roll angle 15° to 45°
Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  Small asymmetric collapse Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Cascade occurs Folding lines used  Large asymmetric collapse  Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour	Spontaneous in less than 3 s No  A Dive forward 0° to 30° No collapse No Less than 45° Most lines tight  A Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation)  No No No Dive or roll angle 15° to 45° Spontaneous re-inflation	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No  Less than 45°  Most lines tight  A  Less than 90°  Dive or roll angle 0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneo re inflation)  No  No  No  Dive or roll angle 15° to 45°  Spontaneous re-inflation
Recovery Cascade occurs Recovery from a developed full stall Dive forward angle on exit Collapse Cascade occurs (other than collapses) Rocking back Line tension  Small asymmetric collapse  Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course Collapse on the opposite side occurs Cascade occurs Folding lines used  Large asymmetric collapse  Change of course until re-inflation Maximum dive forward or roll angle Re-inflation behaviour Total change of course	Spontaneous in less than 3 s No  A Dive forward 0° to 30° No collapse No Less than 45° Most lines tight  A Less than 90° Dive or roll angle 0° to 15° Spontaneous re-inflation Less than 360° No (or only a small number of collapsed cells with a spontaneous re inflation)  No No No Dive or roll angle 15° to 45° Spontaneous re-inflation	Spontaneous in less than 3 s  No  A  Dive forward 0° to 30°  No collapse  No  Less than 45°  Most lines tight  A  Less than 90°  Dive or roll angle 0° to 15°  Spontaneous re-inflation  Less than 360°  No (or only a small number of collapsed cells with a spontaneoure inflation)  No  No  No  no  A  Less than 90°  Dive or roll angle 15° to 45°

Twist occurs	No	No
Cascade occurs	No	No
Folding lines used	no	no
	1	1
Small asymmetric collapse accelerated	<u>i</u> A	¦ <b>A</b>
Change of course until re-inflation		Less than 90°
Maximum dive forward or roll angle	•	Dive or roll angle 15° to 45°
	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course	No (or only a small number of collapsed	Less than 360°
conapse on the opposite side occurs	cells with a spontaneous re inflation)	No (or only a small number of collapsed cells with a spontaneous re inflation)
Twist occurs	No	No
Cascade occurs	No	No
Folding lines used	no	no
Large asymmetric collapse accelerated	A	A
Change of course until re-inflation	Less than 90°	Less than 90°
Maximum dive forward or roll angle		Dive or roll angle 15° to 45°
	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course	•	Less than 360°
_	No (or only a small number of collapsed	No (or only a small number of
	cells with a spontaneous re inflation)	collapsed cells with a spontaneous re inflation)
Twist occurs	No	No
Cascade occurs	No	No
Folding lines used	no	no
Directional control with a maintained asymmetric collapse	А	A
Able to keep course	Yes	Yes
180° turn away from the collapsed side	Yes	Yes
possible in 10 s		
possible in 10 s Amount of control range between turn and stall or spin	More than 50 % of the symmetric control	More than 50 % of the symmetric control travel
Amount of control range between turn and	More than 50 % of the symmetric control	
Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	control travel
Amount of control range between turn and stall or spin	More than 50 % of the symmetric control travel	control travel
Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs	More than 50 % of the symmetric control travel  A  No	control travel  A  No
Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs	More than 50 % of the symmetric control travel  A  No  No	control travel  A  No  No
Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency	More than 50 % of the symmetric control travel  A  No	control travel  A  No
Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs	More than 50 % of the symmetric control travel  A  No  A  No  A  Stops spinning in less than 90°	control travel  A  No  No
Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release	More than 50 % of the symmetric control travel  A  No  A  No  A  Stops spinning in less than 90°	control travel  A  No  A  No  Stops spinning in less than 90°
Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No	control travel  A  No  A  No  Stops spinning in less than 90°  No  A
Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°	control travel  A  No  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°
Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span	control travel  A  No  A  No  Stops spinning in less than 90°  No  A
Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s	control travel  A  No  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span
Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery	More than 50 % of the symmetric control travel  A No A No A Stops spinning in less than 90° No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°	Control travel  A  No  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s
Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery  Dive forward angle on exit	More than 50 % of the symmetric control travel  A No A No A Stops spinning in less than 90° No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°	control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span  Spontaneous in less than 3 s  Dive forward 0° to 30°
Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery  Dive forward angle on exit	More than 50 % of the symmetric control travel  A No A No A Stops spinning in less than 90° No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°	control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s  Dive forward 0° to 30°
Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Recovery Dive forward angle on exit Cascade occurs  Big ears  Entry procedure	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°  No  A  Standard technique	control travel  A  No  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°  No  A  Standard technique
Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Recovery Dive forward angle on exit Cascade occurs  Big ears  Entry procedure Behaviour during big ears	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°  No  A  Standard technique Stable flight	control travel  A  No  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s  Dive forward 0° to 30°  No  A  Standard technique Stable flight
Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit Cascade occurs  Big ears  Entry procedure Behaviour during big ears Recovery	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°  No  A  Standard technique Stable flight Spontaneous in less than 3 s	control travel  A  No  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s  Dive forward 0° to 30°  No  A  Standard technique Stable flight Spontaneous in less than 3 s
Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Recovery Dive forward angle on exit Cascade occurs  Big ears  Entry procedure Behaviour during big ears	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°  No  A  Standard technique Stable flight Spontaneous in less than 3 s	control travel  A  No  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s  Dive forward 0° to 30°  No  A  Standard technique Stable flight
Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Recovery  Dive forward angle on exit Cascade occurs  Big ears  Entry procedure  Behaviour during big ears  Recovery	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°  No  A  Standard technique Stable flight Spontaneous in less than 3 s	control travel  A  No  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s  Dive forward 0° to 30°  No  A  Standard technique Stable flight Spontaneous in less than 3 s
Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Recovery Dive forward angle on exit Cascade occurs  Big ears  Entry procedure Behaviour during big ears Recovery Dive forward angle on exit  Big ears in accelerated flight	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°  No  A  Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	Control travel  A  No  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°  No  A  Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°
Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Recovery Dive forward angle on exit Cascade occurs  Big ears  Entry procedure Behaviour during big ears Recovery Dive forward angle on exit  Big ears in accelerated flight	More than 50 % of the symmetric control travel  A No A No A Stops spinning in less than 90° No A Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30° A Standard technique	control travel  A  No  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°  No  A  Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°

# Dive forward angle on exit Dive forward 0° to 30° Behaviour immediately after releasing the Stable flight accelerator while maintaining big ears

Dive forward 0° to 30° Stable flight

Alternative means of directional control	A	A
180° turn achievable in 20 s	Yes	Yes
Stall or spin occurs	No	No
Any other flight procedure and/or configuratio	n described in the user's manual	

**UP RIMO 2 S** 

Type designation UP Rimo 2 S

Type test reference no DHV GS-01-2967-25

Holder of certification UP International GmbH

Manufacturer UP International GmbH

**Classification** A

Winch towing Yes

Number of seats min / max  $\ 1\ /\ 1$ 

**Accelerator** Yes

**Trimmers** No

BEHAVIOUR AT MIN WEIGHT IN

FLIGHT (60KG)

**Test pilots** 



Juliette Schönsee **Expert Reiner Brunn** 



BEHAVIOUR AT MAX WEIGHT IN FLIGHT (90KG)



Spontaneous exit (g force

decreasing, rate of turn decreasing)

Josef Bauer

	Expert Reiner Brunn	
Inflation/take-off	No release	No release
ii	aviour Smooth, easy and constant rising	Smooth, easy and constant rising
Special take off technique re		No
Landing	A	A
Special landing technique re	<b>quired</b> No	No
Speeds in straight flight	A	A
Trim speed more than 30	km/h Yes	Yes
Speed range using the controls larger the	nan 10 Yes km/h	Yes
Minimum	speed Less than 25 km/h	Less than 25 km/h
Control movement	А	A
Symmetric control pro	essure Increasing	Increasing
Symmetric control	travel Greater than 55 cm	Greater than 60 cm
Pitch stability exiting accelerated flight	A	A
Dive forward angle o	on exit Dive forward less than 30°	Dive forward less than 30°
Collapse	occurs No	No
Pitch stability operating controls during accelerated flight	A	A
Collapse	occurs No	No
Roll stability and damping	A	A
Oscill	<b>ations</b> Reducing	Reducing
Stability in gentle spirals	A	A
Tendency to return to straight	t <b>flight</b> Spontaneous exit	Spontaneous exit
Behaviour exiting a fully developed spira	ıl dive A	A
Initial response of glider (first	180°) Immediate reduction of rate of turn	Immediate reduction of rate of turn

rate of turn decreasing)

Tendency to return to straight flight Spontaneous exit (g force decreasing,

Turn angle to recover normal flight Less than 720°,	, spontaneous recovery	Less than 720°, spontaneous
		recovery

Symmetric front collapse	A	A
Entry	Rocking back less than 45°	Rocking back less than 45°
-	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
Change of course	Keeping course	Keeping course
Cascade occurs	No	No
Folding lines used	no	no
Jnaccelerated collapse (at least 50 % chord)	A	A
Entry	Rocking back less than 45°	Rocking back less than 45°
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
Change of course	Keeping course	Keeping course
Cascade occurs	No	No
Folding lines used	no	no
ccelerated collapse (at least 50 % chord)	A	A
Entry	Rocking back less than 45°	Rocking back less than 45°
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
Change of course	Keeping course	Keeping course
Cascade occurs	No	No
Folding lines used	no	no
xiting deep stall (parachutal stall)	A	A
Deep stall achieved	Yes	Yes
-	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exit		Dive forward 0° to 30°
	Changing course less than 45°	Changing course less than 45°
Cascade occurs		No
ligh angle of attack recovery	A	A
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Cascade occurs	•	No
ecovery from a developed full stall	A	A
Dive forward angle on exit	Dive forward 0° to 30°	Dive forward 0° to 30°
<del>-</del>	No collapse	No collapse
Cascade occurs (other than collapses)		No
Rocking back		Less than 45°
Line tension	Most lines tight	Most lines tight
mall asymmetric collapse	A	A
Change of course until re-inflation	Less than 90°	Less than 90°
Maximum dive forward or roll angle		Dive or roll angle 0° to 15°
	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course	•	Less than 360°
	No (or only a small number of collapsed	No (or only a small number of
	cells with a spontaneous re inflation)	collapsed cells with a spontaneous re inflation)
Twist occurs	No	No
Cascade occurs	No	No
Folding lines used	no	no
arge asymmetric collapse	A	A
	<u> </u>	-4
Change of course until re-inflation		Less than 90°
Maximum dive femore of an all the		
Maximum dive forward or roll angle	Spontaneous re-inflation	Dive or roll angle 15° to 45° Spontaneous re-inflation

Total change of course Less than 360°

Less than 360°

Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous re inflation)	No (or only a small number of collapsed cells with a spontaneous re inflation)
Twist occurs	s No	No
Cascade occurs	s No	No
Folding lines used	no	no
Small asymmetric collapse accelerated	A	A
Liii	<u>i</u>	±
Change of course until re-inflation		Less than 90°
Maximum dive forward or roll angle		Dive or roll angle 15° to 45°
	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course	Less than 360°	Less than 360°
Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous re inflation)	No (or only a small number of collapsed cells with a spontaneous re inflation)
Twist occurs	s No	No
Cascade occurs	s No	No
Folding lines used	no	no
Large asymmetric collapse accelerated	A	A
L	<u>i</u>	<u>i</u>
Change of course until re-inflation		Less than 90°
Maximum dive forward or roll angle		Dive or roll angle 15° to 45°
Re-inflation behaviour	· Spontaneous re-inflation	Spontaneous re-inflation
Total change of course	Less than 360°	Less than 360°
	No (or only a small number of collapsed cells with a spontaneous re inflation)	No (or only a small number of collapsed cells with a spontaneous re inflation)
Twist occurs		No
Cascade occurs	s No	No
Folding lines used	no	no
Directional control with a maintained asymmetric collapse	А	A
Able to keep course	Yes	Yes
180° turn away from the collapsed side possible in 10 s	Yes	Yes
180° turn away from the collapsed side	Yes ; More than 50 % of the symmetric control	Yes
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin	Yes More than 50 % of the symmetric control travel	Yes  More than 50 % of the symmetric control travel
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin	Yes  More than 50 % of the symmetric control travel	Yes  More than 50 % of the symmetric control travel
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin	Yes  More than 50 % of the symmetric control travel	Yes  More than 50 % of the symmetric control travel
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin	Yes  More than 50 % of the symmetric control travel	Yes  More than 50 % of the symmetric control travel
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs	More than 50 % of the symmetric control travel  A  No	Yes  More than 50 % of the symmetric control travel  A
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs	More than 50 % of the symmetric control travel  A  No	Yes  More than 50 % of the symmetric control travel  A  No  No
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs	More than 50 % of the symmetric control travel  A  No  No	Yes  More than 50 % of the symmetric control travel  A  No  A
180° turn away from the collapsed side possible in 10 s  Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°	Yes  More than 50 % of the symmetric control travel  A  No  A  No  A  Stops spinning in less than 90°
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°	Yes  More than 50 % of the symmetric control travel  A  No  A
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs	More than 50 % of the symmetric control travel  A  No  A  SNo  A  Stops spinning in less than 90°  No	More than 50 % of the symmetric control travel  A  No  A  No  A  Stops spinning in less than 90°  No
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No	More than 50 % of the symmetric control travel  A  No  A  No  A  Stops spinning in less than 90°  No
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Recovery	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s  Dive forward 0° to 30°	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s  Dive forward 0° to 30°	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Behaviour before release Recovery Dive forward angle on exit	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s  Dive forward 0° to 30°	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°
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180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin.  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Recovery Dive forward angle on exit Cascade occurs  Big ears  Entry procedure	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°  No  A  Standard technique	More than 50 % of the symmetric control travel  A  No  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°  No  A  Standard technique
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin.  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Recovery Dive forward angle on exit Cascade occurs  Big ears  Entry procedure Behaviour during big ears	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A  Standard technique Stable flight	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°  No  A  Standard technique Stable flight
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Recovery  Dive forward angle on exit Cascade occurs  Big ears  Entry procedure  Behaviour during big ears  Recovery	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A  Standard technique Stable flight Spontaneous in less than 3 s	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s  Dive forward 0° to 30°  No  A  Standard technique Stable flight Spontaneous in less than 3 s
180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin.  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Recovery Dive forward angle on exit Cascade occurs  Big ears  Entry procedure Behaviour during big ears	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A  Standard technique Stable flight Spontaneous in less than 3 s	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°  No  A  Standard technique Stable flight
Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Recovery  Dive forward angle on exit  Cascade occurs  Big ears  Entry procedure  Behaviour during big ears  Recovery  Dive forward angle on exit	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90° No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30° No  A  Standard technique Stable flight Spontaneous in less than 3 s	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s  Dive forward 0° to 30°  No  A  Standard technique Stable flight Spontaneous in less than 3 s
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180° turn away from the collapsed side possible in 10 s Amount of control range between turn and stall or spin  Trim speed spin tendency  Spin occurs  Low speed spin tendency  Spin occurs  Recovery from a developed spin  Spin rotation angle after release Cascade occurs  B-line stall  Change of course before release Recovery  Dive forward angle on exit Cascade occurs  Big ears  Entry procedure  Behaviour during big ears  Recovery  Dive forward angle on exit  Big ears in accelerated flight	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45° Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°  No  A  Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°	More than 50 % of the symmetric control travel  A  No  A  Stops spinning in less than 90°  No  A  Changing course less than 45°  Remains stable with straight span Spontaneous in less than 3 s Dive forward 0° to 30°  No  A  Standard technique Stable flight Spontaneous in less than 3 s Dive forward 0° to 30°

# Behaviour during big ears Stable flight

Any other flight procedure and/or configuration described in the user's manual

**Recovery** Spontaneous in less than 3 s

**Dive forward angle on exit** Dive forward 0° to 30°

## Behaviour immediately after releasing the Stable flight accelerator while maintaining big ears

Dive forward 0° to 30°

Spontaneous in less than 3 s

Stable flight

Stable flight

Alternative means of directional control	A	Α
180° turn achievable in 20 s	Yes	Yes
Stall or spin occurs	No	No

**UP RIMO 2 XS** 

Type designation UP Rimo 2 XS

Type test reference no DHV GS-01-2968-25

Holder of certification UP International GmbH

Manufacturer UP International GmbH

**Classification** A

Winch towing Yes

Number of seats min / max  $\ 1\ /\ 1$ 

**Accelerator** Yes

**Trimmers** No

BEHAVIOUR AT MIN WEIGHT IN

FLIGHT (55KG)

**Test pilots** 



Juliette Schönsee **Expert Reiner Brunn** 



**BEHAVIOUR AT MAX** WEIGHT IN FLIGHT (80KG)



**Beni Stocker** 

Spontaneous exit (g force

decreasing, rate of turn decreasing)

	No release	No release
Inflation/take-off	A	A
Rising behaviou	r Smooth, easy and constant rising	Smooth, easy and constant rising
Special take off technique require	<b>d</b> No	No
Landing	A	A
Special landing technique require	<b>d</b> No	No
Speeds in straight flight	A	A
Trim speed more than 30 km/	<b>h</b> Yes	Yes
Speed range using the controls larger than 1 $$\operatorname{km}/$		Yes
Minimum spee	<b>d</b> Less than 25 km/h	Less than 25 km/h
Control movement	A	A
Symmetric control pressur	<b>e</b> Increasing	Increasing
Symmetric control trave	el Greater than 55 cm	Greater than 60 cm
Pitch stability exiting accelerated flight	A	A
Dive forward angle on ex	it Dive forward less than 30°	Dive forward less than 30°
Collapse occur	s No	No
Pitch stability operating controls during accelerated flight	A	А
Collapse occur	s No	No
Roll stability and damping	A	A
Oscillation		Reducing
Stability in gentle spirals	A	A
Tendency to return to straight fligh		Spontaneous exit
Behaviour exiting a fully developed spiral dive	a A	A
Initial response of glider (first 180°	) Immediate reduction of rate of turn	Immediate reduction of rate of turn

rate of turn decreasing)

Tendency to return to straight flight Spontaneous exit (g force decreasing,

Recover  Dive forward angle on exi  Change of course  Cascade occur  Folding lines used  Inaccelerated collapse (at least 50 % chord)  Entr	e Keeping course s No d no	Rocking back less than 45° Spontaneous in less than 3 s Dive forward 0° to 30° Entering a turn of less than 90° No no
Recover  Dive forward angle on exi  Change of course  Cascade occur  Folding lines use  Inaccelerated collapse (at least 50 % chord)  Entr	y Spontaneous in less than 3 s t Dive forward 0° to 30° e Keeping course s No d no	Spontaneous in less than 3 s Dive forward 0° to 30° Entering a turn of less than 90° No
Dive forward angle on exi Change of course Cascade occur Folding lines use Inaccelerated collapse (at least 50 % chord) Entr Recover	t Dive forward 0° to 30° c Keeping course s No d no	Dive forward 0° to 30° Entering a turn of less than 90° No
Change of cours Cascade occur Folding lines use Inaccelerated collapse (at least 50 % chord) Entr Recover	e Keeping course s No d no	Entering a turn of less than 90° No
Cascade occur Folding lines use Inaccelerated collapse (at least 50 % chord) Entr Recover	s No d no	No
Folding lines use Inaccelerated collapse (at least 50 % chord) Entr Recover	d no	
Inaccelerated collapse (at least 50 % chord) Entr Recover		no
Entr Recover	Α	
Recover		A
	y Rocking back less than 45°	Rocking back less than 45°
Dive forward angle on exi	y Spontaneous in less than 3 s	Spontaneous in less than 3 s
	<b>t</b> Dive forward 0° to 30°	Dive forward 0° to 30°
Change of cours	<b>e</b> Keeping course	Entering a turn of less than 90°
Cascade occur	<b>s</b> No	No
Folding lines use	<b>d</b> no	no
ccelerated collapse (at least 50 % chord)	A	A
Entr	<b>y</b> Rocking back less than 45°	Rocking back less than 45°
Recover	<b>y</b> Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exi	<b>t</b> Dive forward 0° to 30°	Dive forward 0° to 30°
Change of cours	<b>e</b> Keeping course	Entering a turn of less than 90°
Cascade occur	s No	No
Folding lines use	<b>d</b> no	no
xiting deep stall (parachutal stall)	A	A
Deep stall achieve	<b>d</b> Yes	Yes
Recover	<b>y</b> Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exi	t Dive forward 0° to 30°	Dive forward 0° to 30°
Change of cours	e Changing course less than 45°	Changing course less than 45°
Cascade occur	s No	No
ligh angle of attack recovery	A	A
Recover	y Spontaneous in less than 3 s	Spontaneous in less than 3 s
Cascade occur	s No	No
ecovery from a developed full stall	A	A
Dive forward angle on exi	<b>t</b> Dive forward 0° to 30°	Dive forward 0° to 30°
Collaps	e No collapse	No collapse
Cascade occurs (other than collapses	) No	No
Rocking bac	k Less than 45°	Less than 45°
Line tension	n Most lines tight	Most lines tight
mall asymmetric collapse	A	A
Change of course until re-inflation	n Less than 90°	Less than 90°
Maximum dive forward or roll angle	e Dive or roll angle 0° to 15°	Dive or roll angle 0° to 15°
Re-inflation behaviou	<b>r</b> Spontaneous re-inflation	Spontaneous re-inflation
Total change of cours	e Less than 360°	Less than 360°
Collapse on the opposite side occur	s No (or only a small number of collapsed cells with a spontaneous re inflation)	
	,	collapsed cells with a spontaneoure inflation)

Change of course until re-inflation Less than 90°

Maximum dive forward or roll angle Dive or roll angle 15° to 45°

Re-inflation behaviour Spontaneous re-inflation

Total change of course Less than 360°

A

Less than 90°

Dive or roll angle 15° to 45°

Spontaneous re-inflation

Spontaneous re-inflation

Less than 360°

no

Folding lines used no

Collapse on the opposite side occurs	No (or only a small number of collapsed cells with a spontaneous re inflation)	No (or only a small number of collapsed cells with a spontaneous re inflation)
Twist occurs	s No	No
Cascade occurs	s No	No
Folding lines used	Ino	no
_		
Small asymmetric collapse accelerated	A	A
Change of course until re-inflation	Less than 90°	Less than 90°
Maximum dive forward or roll angle		Dive or roll angle 15° to 45°
_	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course		Less than 360°
_	No (or only a small number of collapsed cells with a spontaneous re inflation)	No (or only a small number of collapsed cells with a spontaneous re inflation)
Twist occurs	s No	No
Cascade occurs	s No	No
Folding lines used	<b>I</b> no	no
-		
Large asymmetric collapse accelerated	A	Α
Change of course until re-inflation	Less than 90°	Less than 90°
Maximum dive forward or roll angle		Dive or roll angle 15° to 45°
	Spontaneous re-inflation	Spontaneous re-inflation
Total change of course	'	Less than 360°
_	No (or only a small number of collapsed cells with a spontaneous re inflation)	No (or only a small number of collapsed cells with a spontaneous re inflation)
Twist occurs	s No	No
Cascade occurs	s No	No
Folding lines used	I no	no
Directional control with a maintained asymmetric collapse	А	А
Able to keep course		Yes
180° turn away from the collapsed side		Yes
Amount of control range between turn and stall or spir	More than 50 % of the symmetric control	More than 50 % of the symmetric control travel
	1-	12
Trim speed spin tendency	¦A	A
Spin occurs		No
Low speed spin tendency	¦ <b>A</b>	¦A
Spin occurs	5 No	No
Recovery from a developed spin	A	A
Spin rotation angle after release	Stops spinning in less than 90°	Stops spinning in less than 90°
Cascade occurs	s No	No
B-line stall	A	A
Change of course before release	Changing course less than 45°	Changing course less than 45°
Behaviour before release	Remains stable with straight span	Remains stable with straight span
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exi	Dive forward 0° to 30°	Dive forward 0° to 30°
Cascade occurs	s No	No
1		1
Big ears	A	<u> </u> A
Entry procedure	Standard technique	Dedicated controls
Behaviour during big ears	Stable flight	Stable flight
Recovery	Spontaneous in less than 3 s	Spontaneous in less than 3 s
Dive forward angle on exi	Dive forward 0° to 30°	Dive forward 0° to 30°
Big ears in accelerated flight	A	A
Entry procedure	Standard technique	Dedicated controls

# Behaviour during big ears Stable flight

Any other flight procedure and/or configuration described in the user's manual

**Recovery** Spontaneous in less than 3 s

**Dive forward angle on exit** Dive forward 0° to 30°

## Behaviour immediately after releasing the Stable flight accelerator while maintaining big ears

Dive forward 0° to 30°

Spontaneous in less than 3 s

Stable flight

Stable flight

Alternative means of directional control	A	Α
180° turn achievable in 20 s	Yes	Yes
Stall or spin occurs	No	No