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Deutscher Hängegleiterverband e.V.



DHV-tested Equipment

Flying Equipment Database

Manufacturers / Dealers

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Clubs

TECHNICAL DATA DHY TESTREPORT LTF DHY TESTREPORT EN DATASHEET





NOVA ION 3XXS LIGHT

Type designation NOVA ION 3XXS light

Type test reference no DHV GS-01-2104-14

 $\textbf{Holder of certification} \ \underline{\text{NOVA Vertriebsgesellschaft m.b.H.}}$

Manufacturer NOVA Vertriebsgesellschaft m.b.H.

Classification B Winch towing Yes

Number of seats min / max $1\ /\ 1$ **Accelerator** Yes

BEHAVIOUR AT MIN WEIGHT IN FLIGHT (57KG)





Gudrun Öchsl

BEHAVIOUR AT MAX WEIGHT IN FLIGHT (80KG)



Beni Stocker

Rocking back less than 45°

	Gudrun Ochsl	Beni Stocker
Expert	Harald Buntz	
Inflation/take-off	A	A
Rising behaviour	Smooth, easy and constant rising	Smooth, easy and constant rising
Special take off technique required	No	No
<u>Landing</u>	A	A
Special landing technique required	No	No
Speeds in straight flight	A	Å
Trim speed more than 30 km/h	Yes	Yes
Speed range using the controls larger than 10 km/h	Yes	Yes
Minimum speed	Less than 25 km/h	Less than 25 km/h
Control movement	A	A
Symmetric control pressure	Increasing	Increasing
Symmetric control travel	Greater than 55 cm	Greater than 60 cm
5,	or cates than 55 cm	Greater than 50 cm
Pitch stability exiting accelerated flight	A	A
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	A	A
·		1
Collapse occurs	No	No
Roll stability and damping	A	A
Oscillations	Reducing	Reducing
Stability in gentle spirals	A	A
Tendency to return to straight flight	Spontaneous exit	Spontaneous exit
Behaviour in a steeply banked turn	В	В
Sink rate after two turns	More than 14 m/s	More than 14 m/s
·		i
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°
_	Entering a turn of less than 90°	Entering a turn of less than 90°
Cascade occurs	No	No

Entry Rocking back less than 45°

Symmetric front collapse in accelerated flight A

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 Entering a turn of less than 90° Entering a turn of less than 90° Cascade occurs No Exiting deep stall (parachutal stall) Deep stall achieved Yes 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 Changing course less than 45° Changing course less than 45° Cascade occurs No High angle of attack recovery A Recovery Spontaneous in less than 3 s Spontaneous in less than 3 s Cascade occurs No Recovery from a developed full stall 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 Rocking back Less than 45° Less than 45° Line tension Most lines tight Most lines tight Asymmetric collapse 45-50% A A Change of course until re-inflation Less than 90° Maximum dive forward or roll angle Dive or roll angle 15° to 45° 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° Collapse on the opposite side occurs No Twist occurs No Cascade occurs No Asymmetric collapse 70-75% A Change of course until re-inflation Less than 90° 90° to 180° Maximum dive forward or roll angle Dive or roll angle 15° to 45° 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° Collapse on the opposite side occurs No Twist occurs No Cascade occurs No No Asymmetric collapse 45-50% in accelerated Change of course until re-inflation Less than 90° Maximum dive forward or roll angle Dive or roll angle 15° to 45° 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° Collapse on the opposite side occurs No Twist occurs No Cascade occurs No Nο Asymmetric collapse 70-75% in accelerated B <u>flight</u> Change of course until re-inflation 90° to 180° 90° to 180° Maximum dive forward or roll angle Dive or roll angle 15° to 45° 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° Collapse on the opposite side occurs No No Twist occurs No. Nο Cascade occurs No Directional control with a maintained asymmetric collapse Able to keep course Yes 180° turn away from the collapsed side possible in Yes Amount of control range between turn and stall or More than 50 % of the symmetric control More than 50 % of the symmetric spin travel Trim speed spin tendency A Spin occurs No Low speed spin tendency A Recovery from a developed spin A **Spin rotation angle after release** Stops spinning in less than 90° Cascade occurs No **B-line stall** 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

Spontaneous in less than 3 s Recovery Spontaneous in less than 3 s Dive forward angle on exit Dive forward 30° to 60° Dive forward 0° to 30° Cascade occurs No Big ears A A Entry procedure Dedicated controls Dedicated controls Behaviour during big ears Stable flight 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° Big ears in accelerated flight A A Entry procedure Dedicated controls Behaviour during big ears Stable flight Stable flight Spontaneous in 3 s to 5 s Recovery Spontaneous in 3 s to 5 s Dive forward angle on exit Dive forward 0° to 30° Dive forward 0° to 30° Behaviour immediately after releasing the Stable flight Stable flight accelerator while maintaining big ears Behaviour exiting a steep spiral A A Tendency to return to straight flight Spontaneous exit Spontaneous exit Turn angle to recover normal flight Less than 720°, spontaneous recovery Less than 720°, spontaneous recovery Sink rate when evaluating spiral stability [m/s] 14 Α Alternative means of directional control A 180° turn achievable in 20 s Yes

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

Stall or spin occurs No

No other flight procedure or configuration described in the user's manual

by jursaconsulting