

Summary



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General

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Visual indication





Overview

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Icones ...



Remote device with a WiFi antenna (computer, smartphone or tablet running Apple, Android or Windows)



_____ ¢ ≑ ≵

Drop Base / Dropper : Smart acquisition center to control falls, record impact data and stream Lugsoft WebApp



Head Form HIC - gmax. Embarks a triaxial accelerometric system



You can also inspect...

Parkours

Free Runner develops the art of urban displacement. Specific equipment is now being built. Their floors must have cushioning features, inferior to playgrounds because the public is not the same, but must be checked in accordance with the principles of EN 16899



https://www.lugdosphere.fr/domaines-dactivites/



Overview





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Preamble

Hello,

You have received or will soon receive your new HIC and gmax test device : The BibraxOne H2 Lugdosphere,

We are very happy to present it to you and we would like to thank you for your trust.

When you read this booklet, you'll find out all the features of our H2 and how to take full advantage of it.

With its new on-board technology and numerous accessories, we are sure that the innovation that drives us will follow you in your daily life on site.

Friendly

Silvain Marvié

Safety and health first!

Safety and risk prevention, especially for children, is one of the reasons for our commitment. It is important to preserve future generations.







Getting started





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At the opening

You can start by loading your devices :





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A simple system ...



1. Impact data goes back from the head to the dropper via Bluetooth.

2. The dropper records impact data in physical memory.

3. The Lugsoft WebApp in the dropper process raw data and displays live results.

Any device with a WiFi card can connect to Lugsoft via the dropper's wifi network. Ex: LU2050XX.

The WiFi network of the dropper does not give access to the internet but to Lugsoft.



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Your device will be able to have access to internet with data.

- 1. The Lugsoft WebApp will accompany you in connecting the dropper to a wifi network that can be the hotspot of your mobile phone or your internet box.
- 2. Once your dropper has internet with data, the device connected to the dropper have access to internet through it.
- 3. An automatic backup of your impact data and inputs in Lugsoft is performed as soon as your dropper is connected to the internet via a hotspot or your internet network.

You can also check...

Toys

The "toy" standard EN71-8 describes testing of domestic swing elements to determine the maximum acceleration value of the child's head. The Lugdosphere equipped with its swing kit responds perfectly.

https://www.lugdosphere.fr/domaines-dactivites/







First use





Overview

First use

Using lugsoft Drope base screens Head screens General

Start your Dropper Bip, bip ...

1 - Turn on your dropper by pressing the button and wait for the beeps! (38 sec)



General





Example of connecting with Windows10

If you use a smartphone: do not agree to switch to the mobile network to have access to the internet if it asks you.



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Start your HIC head...

3 - Turn on your HIC head by placing it on its base and wait for auto calibration and automatic drop pairing via Bluetooth.

4 – To browse the menu of head, refer to the screen chapte of the head. You need to get the following screen:







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Connect to Lugsoft ...

5 – In your browser copy and paste the following address in the address bar:192.168.4.1

You will arrive directly on the login page

Nota : We recommend the use of <u>Google Chrome</u> to work with our WebApp Lugsoft



Nota : You can find this address on the dropper's screen



We advise you to add to your favorites the website that will open: it's our WebApp Lugsoft



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Connect to Lugsoft ... Connection page





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Connect to Lugsoft ... Scan wifi

- 6 Now that you're on the login page: Click "Connect to Wifi"
- 7 Click "Scan"

lugdosphère	CONNECT LARGUEUR TO NETWO	ORK				
USERNAME	SSID	PASSWORD				
test	MyBox-8327	1AE4DA87303DE12FE				
PASSWORD		CONNECT				
SIGN IN						
Connect to Wifi						
©2019 lugdosphère.	1					



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Connect to Lugsoft ... Scan wifi

8- Select your network from the drop-down list and enter your login code





Connect to Lugsoft ... Scan wifi

9 - Click "Connect."

Connection request starts when the button switches from CONNECT to CONNECTING

CONNECTING

It is effective when the CONNECTING button to CONNECTED in green

CONNECTED

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Overview

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Connect to Lugsoft ... Connexion Licence

10 – Click on the Lugdosphere logo to return to the login page
11 – Enter your login and password

<u>username:</u>

HicTest@normenjeu.hic

password: France69Lug

lug	dosphèr	e
USERNAME		
test		
PASSWORD		
	SIGN IN	
	Connect to Wifi	
6	2019 lugdosphère.	

You can also inspect ...

Trampoline protection

At the same time entertainment, individual sport and collective trampoline is expanding. For these trampolines you will be able to test according to the EN913 standard.

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Using lugsoft





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Sign in

On the home page: http://192.168.4.1/login enter your password and ID.

lugdosphère
NOM DE L'UTILISATEUR
Lug MOT DE PASSE

SE CONNECTER
Se connecter au Wifi
©2019 lugdosphère

Nota : the first time you use a username/identifier with a dropper you must first connect it to the internet. Refer to the first login step.



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Home Menu « Home »





Overview First use **Using lugsoft** Drope base screens Head screens General

Set up automatic reports "Settings/Report" menu

V 1.37.1 beta	ère	ባ	Accueil	Réglages	Journal 🙆
	New Update	4.21 m ‡ 25 °C (56 % 💧 📑	64 %	D
	Account	Report	1	Wifi	
	PERSONALISE YOUR REPORTS				
					Add your logo
	Dra	g & Drop your picture c	r <u>Browse</u>		
	FOOTNOTE				Set up your footnote
				1	
	PER\$ONNALIZED \$ECOND PAGE H2 Here you can add personnalized content for a second page of the reports				Opportunity to create a "page two" presenting your: company, methodology
			SAVE MODIFIC	CATIONS	expression of results



Overview First use **Using lugsoft** Drope base screens Head screens General

Set up automatic reports "Settings/Count" menu

lugdosphèr V 1.37.1 beta	e	ወ		Accueil	Réglages	Journal	6
	Secondary menu	4.21 m 🗘	25 °C 🔒 56 %	ف ف			
	Compte	Rapp	port		Wifi		
Co	ompte				Who's doing test? Appe	g the ears	
INFORMATIONS UTILISATEUR			_		on the repo	ort's	
NOM D		TITRE PROFE	SSIONNEL	nrst pag	e		
fberut@normenjeu.fr		Alexis SANCHEZ					
			Utilisé dans le ra	apport			
MOT D	E PASSE		CONFIRMER L	.E MOT DE PA	SSE		
User cl Log out	hange. t/log in						
	Déconnexion	ENR	EGISTRER		ICATIONS		



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Connect or reconnect

On the home page: <u>http://192.168.4.1/login</u>enter your password and ID.



Note: the first time you use a username with a dropper you must first connect it to the internet. Refer to the first connection step.



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Home Focus on indicators

lugdosphère		•	() Indicators		Settings	Logs	8	
		New Upda	-0.01 m 🕽	-255 °C 🕼 -1 % 👌	• ?	47 %		
	e production_defa	ult	Normenjeu	•	33 (0) 4 28 87	00 33 🕤		
			CGV MISSIONS	5 1	SITES TESTED	1		
			IMPACTS	0	MAX. GMAX	-		
			MAX. HIC	-	TIMES ABOVE 250	° 0		
				NEW	MISSION			
PAST MISS	ONS							
GPS	Date	Mission	Site	Cli	ent M	lethod Rep.	Dup	
# 2 #	Il y a une minute	MISSION ID	PLAYGROUN	ID CUST	OMER	1 🛓	e	



Operating indicators Height ...

Drop height for position indication
2.94 m
24 °C
58 %
58 %
55 %
55 %

Overview

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Operating indicators Environment conditions ...



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Operating indicators Pairings ...



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Operating indicators Battery management ...



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Home Page Create a new mission

lug	dosphère V 1.36	С С		Home Sett	ings Log	s	Ø	
		New Update	-0.01 m 🚺 -255 °C	8 -1% 🌢 🍵	? 47 %			
	e production_defat	ult	Normenjeu	+33 (0) 4	28 87 00 33	•		
	-	CG	MISSIONS	SITES TE	STED	1		
	·		IMPACTS	0 MAX. GM	ΑX	-		
			MAX. HIC	TIMES AF	30VE 258G	0	Crea	ite a new
				NEW MISSIC	DN .		r	nission
						~		
PAST MISSI	ONS	Mantan	0.1-	Olivet	Mathead	Dee	Dur	
GPS .	Date	MISSION	Site	Client	Method	кер	Dup	
181	Il y a une minute	MISSION ID	PLAYGROUND	CUSTOMER	1	*		

Choosing the method The type of method and reporting format



Using lugsoft Drope base screens Head screens General

METHOD	Method 2 of the EN1177:2019 Standard	
• Method 1: CFH	Method	2: Adequacy
MISSION ID		Lab mode: Method 1 only
CLIENT	SITE	
	Cancel	VALIDATE
MICOLONUS		



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Site page / Playground

Site page / Playaround		Back Home » PLAYGROUND	
she page / naygroona			METHOD 1: CFH
	Creating a new play	TEST NEW EQUIPMENT	START
	equipment	EQUIPMENTS TESTED	
	List of the site's play equipment	Equipment	Result
From the site name, it is nossi	ble	PICTURE OF THE SITE	vse
- Either create a play equip away by entering a text	oment right and then	ADDRE 55	
clicking "STRAT" and there directly to the equipment po	fore going 1ge.		
- Either enter data describ	ing the site.	ANNEXES This data will appear on the last page of the report Annex #1	
during or after the test.	ea pelole,	Granulometry ADD PICTURE	
		Delete Site	UPDATE SITE



Site page / Playground

From the site page, it is possible:

- Either create a play equipment right away by entering a text and then clicking "STRAT" and therefore going directly to the equipment page.

- Either enter data describing the site. This data can be entered before, during or after the test.

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Site page / Playground

Example of a completed and saved playground page.

After entering or changing information, the blue "site update" button should be clicked to turn "updated" green

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Play Equipment Page



From the equipment page it is possible:

- Either create an area to test right away by entering a text and then clicking "START" and therefore going directly to the area page.
- Either enter data describing the game. This data can be entered before, during or after the trial.

EQUIPMENT					
Double C	ow swing				
TEST NEW ZO	NE				
					START
TE STED ZONE	ES (Zon	Creating a new test zone	CFH	Groun	Result
		no data	found		

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Play Equipment Page

From the equipment page it is possible:

Either create an area to test right away by entering a text and the clicking "START" and therefore goin directly to the area page.

Either enter data describing th game. This data can be entere before, during or after the trial.

Picture

	Back Home » PLAYGROUND	» Double Co	w Swing		
	EQUIPMENT TO TEST	ving			METHOD 1: CFH
sible:	EQUIPMENT Double Cow swing				
st right d then going	List of te List of te zones o play equi	ested f the pment			START
g the intered	Zone	FHF no data f	CFH found	Groun	Result
	PICTURE OF THE EQUIPMENT				
play play equipment	Drag &	Drop your p	icture or <u>i</u>	Browse	

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Play Equipment Page



Example of play equipment page completed and saved.

After entering or changing information, the blue "equipment update" button should be "updated" clicked to turn green

Information	EQUIPMENT	MAN (FACTURED	
about play equipment	Double Cow	GoodGame	
	INSTALLATION DATE	THE	
	20/06/2016	60	m
Information	SURFACE		
about the	RED WETPOUR	GoodIAS	
surface tested	174119 <u>1</u>		
	WETPOUR	CONCRET	
	INSTALLATION DATE	SURFACING CONDITION	
	20/06/2016	Like new	
		Delete UPDATED	



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Test Zone Page

From the zone page it is possible:

- Either make an impact right away by swiping the "Slide to release" button or using the button on the dropper handle.
 - Either enter data describing the test area. This data can be entered before, during or after the trial.

ZONE À TESTER MÉTHODE 1: HCC Left side Zone (NExt to the slide) Zone concerned ZONE Left side Zone (NExt to the slide) HCL **EPAISSEUR** mm m COURBE / MÉTHODE 1 HICPol -- GmaxPol HIC Gmax 1200 1000 200 150 윽 600 100 50 20 HCC CALCULÉE HYGRO.% 20 73 % NOUVEAU IMPACT **GLISSER POUR LIBÉRER** → Makes the headform fall off

Accueil » PLAYGROUND » DOUBLE COW SWING » Left Side Zone (NExt To Th



handle.

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Accueil » PLAYGROUND » DOUBLE COW SWING » Left Side Zone (NExt To Th ZONE À TESTER MÉTHODE 1: HCC Left side Zone (NExt to the slide) ZONE Left side Zone (NExt to the slide) **EPAISSEUR** Free Height of Fall mm (FHF) of the zone surface thickness at the test position BE / MÉTHODE 1 Either make an impact right away by 1200 swiping the "Slide to release" button 1000 200 or using the button on the dropper 150 ₽ 600 100 400 Temperature and Either enter data describing the test 50 200 **Hygrometrics** area. This data can be entered recorded before, during or after the trial. automatically HCC CALCULÉE T°C HYGRO.% 73 % NOUVEAU IMPACT **GLISSER POUR LIBÉRER**



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Test Zone Page



Example of play equipment page completed and saved.

After entering or changing information, the blue "equipment update" button should be clicked to turn "updated" green

LEAU DES IMPACTS				
Hauteur	HIC	Gmax	Résultats	
0.74 m	214	37	Adequate	đ
TO DE LA ZONE DE TE	ST			
1.1.4 (87			10-band second	
ID III			opiosa compie	. x
		1	top to un	da 🐨
	-		top to us	da 🤤
		C.t		du G
	Int a	and the second		
	TH A	C St		do
	IN A	C SS		do C
MENTAIRES	A A	Commenta	ires, par	do C
MENTAIRES	swing A exe	Commenta emple pour f	ires, par trianguler l	a
MENTAIRES 5cm from middle of 7cm from middle of	swing A swing B	Commenta emple pour to position d	ires, par trianguler l ' essais	a
MENTAIRES 5cm from middle of 7cm from middle of	swing A swing B	Commenta emple pour f position d	ires, par trianguler l ' essais	a



Impact Page

After an impact Lugsoft displays:

- Impact curves. (deceleration Vs. Time)
- Impact results (height, gmax, HIC and HIC calculation time)

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Impact results



METHOD 1: CFH



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After an impact Lugsoft displays the curves and data of the last impact.

Depending on the case, other impacts will be made on the same test position. The data will then be incremented in a table. Each impact can be examined by clicking on it.

Summary table of impacts in the zone



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Result Example for a method 1

Free Height of Fall (FHF) of the equipment area. To be entered by the user

, r			t	Surfac hickness o tested zo	e of the one	
) of be	FHF	1,35 m	GROUND_THICK	40	mm	
	1400- 1200-	◆ HICPol ◆ Gmax	Pol • HIC • Gry	és	Curve o accord height	f the gmax ling to the in Green
	1000	1	f and a second s	-200) Mai	
Curve of accordin height i	the HIC g to the n Blue	6 0.55 0.74 0 93 1 1 Fail h	127 1.46 sight (m)	Critical Fa (CFI	ll Height H)	
	CALCULATED CFH	T*C	31 °C	HYGRO.%	96	
	IMPACTS TABLE			2002		
	1.14 m	665	142	Adequate		
	1.31 m	843	163	Adequate		
	1.49 m	1092	189	Not Adequate	a	
	1.60 m	1301	207	Not Adequate	D	
	ZONE PICTURE		1	Upload complete	8	



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Result Example for a method 1



Temperature and Humidity during testing



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After his first mission





Connect to a new internet network to get data "Settings/Wifi" menu



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Update Lugsoft Homepage

When an update is available, an orange "New Update" button appears to the left of the operating indicators.

Make sure you have a battery level above 60% before you click the button. Wait until the button passes over Updating and then Updated.

Then the dropper automatically restarts.

You'll be able to check the success of the update on the dropper screen during the restart and on Lugsoft after a "refresh" of the page.



New Update
Updating
Updated (Restarting)





Laboratory mode tests

To perform laboratory tests select Method 1 and click "Laboratory Test" to activate the button.



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Laboratory mode tests

The organization of the pages and the conduct of the tests through Lugsoft are the same with a few exceptions.

There is the possibility on the "equipment" page to put an additional image to represent the test positions.

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Laboratory mode tests

The organization of the pages and the conduct of the tests through Lugsoft are the same with a few exceptions.

Also in the "Equipment" page it is possible to complete the detailed descriptive information of the sample tested.

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Sample description

It is possible to change the title of the descriptive line

DESCRIPTION DE L'ÉCHA	ANTILLON
Ces informations apparaîtront à la page "éch	hantillon" du rapport
TITLE	VALUE
dénomination du produit	
référence du produit	
fabricant des granulats	

It is possible to add a descriptive line by clicking on the "New Row" button





Report editing

Reports can be edited from two different locations:

From the home page in the "missions" table by clicking the button

Overview First use **Using lugsoft** Drope base screens

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Report editing

From the mission's website page by clicking on the "Generate Report" button

Framing "missing information" only appears through this and tells you if information or images have not been captured or taken. This information remains optional, and the report can still be generated.



Informations manquantes :

Site "city" : address, picture, geolocation

Equipement "jeux 3 tours" : ref, manufacturer, installed_at, ffh_max, floor_ref, floor_manufacturer, floor_kind, floor_substrat, floor_condition, floor_installed_at, picture, picture2, geolocation

Zone "glissiere" : picture

Retour

GÉNÉRER TOUT DE MÊME LE RAPPORT



Report editing

A missing photo materializes in the report by an image like this.



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Report editing

An information not filled in, results in the non-generation of the title of the information. Example:





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Overview First use **Using lugsoft** Drope base s

Drope base screens Head screens General **Report editing**

Lugsoft manages the versioning of reports.

The number of the version appears at the top right of the first page of the report

REPORT VERSION	
LAST VERSION	NEW VERSION
1.1	1.2
	Edit if necessary
	VALIDATE

Rep	oort Réf. Test-Test
publis This version cancels and re	hing : 29/10/2020 v1.2 eplaces the previous one



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Report editing Example Method 1

On the right : Main page of a test zone in method 1.

- Impact summary table,
- Acceleration Curves Vs Time
- CFH extrapolation curves (HIC and gmax)

Below: Synthetic summary for a play equipment.





Curves of HIC and gmax vs. drop height

Time/acceleration curve of the

highest value measured





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Report editing Example Method 2

On the right: Main page of a test zone in method 2.

- Summary table of impact(s),
- Acceleration Curves Vs Time

Below: Synthetic summary for a play equipment.

Het. Acces_m2-Acces_m	Report				nonio	horr
publishing : 03/11/202 v1	Tax untits (,	nenjec	non
rancels and replaces the previous of	010100000					
ances and leplaces the previous of	/ n°1	mmary	ults su	ent res	Equipme	
Result	n° 1 HIC	mmary _{Gmax}	Release	ent res	Equipme Ground_thickness	Zone



Report Réf. Accès_m2-Accès_m2

publishing : 03/11/2020 v1.0 This version cancels and replaces the previous one

PIRATE BOAT - Rope Ladder

Zone: Rope Ladder FHF : 1.48 m Release height : 1.50 m Result : Adequate

 Height
 HIC
 Gmax

 1.5 m
 586
 109



Temperature : 26 °C / Hygrometry : 60 % Comment : 36cm from A 47cm from B

Time/acceleration curve of the highest value measured





Duplicating a mission

Lugsoft allows you to duplicate a mission. From the home page click the button <a>
 on the mission line that you want to duplicate.

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A window appears, you can rename the mission and the name of the client. All other information (Site, games, zones and results) will be duplicated identically.





You can also inspect...

Climbing and bouldering mats

Check the maximum deceleration of your climbing or bouldering receiving mats equipment (NF P90-311 - NF P90-312).

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Drope base screens





The dropper Start



Immediately after the dropper indicates the version of the Lugsoft WebApp



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The dropper Logos



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The dropper Ready for testing

The dropper screen is ready for testing when it displays the approximate height of the head relatively to the surface.

It is ready when the Bluetooth connection with the head is functional.

Connecting to a hotspot with data is not necessary.



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The dropper all and impact


You can also inspect...

Protective device like nets on ski slopes

The management of ski areas requires the management of flows and risks... Test the protective devices in the form of nets that are installed to protect against falls

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Head screens





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The head Start-up

The Lugdosphère Logo appears



Firmware and head settings



Bibrax One

Tête H.I.C série H2

Bluetooth information





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The head The calibration of accelerometers

Calibration of accelerometer starts: Don't move your head and position it as straight as possible



Calibration of accelerometers is underway



Calibration of accelerometers is finished





Head screen ready to be connected to the dropper (Drop Base) but with no connection yet to the head via Bluetooth



The head is ready to be glued to the dropper -The Bluetotth connection is established

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The head automatically connects to the dropper via Bluetooth



Bluetooth communication is established



The head Fall, impact and data transmission

Ready ! Screen : When the head is well positioned on the dropper magnet and is ready to fall



From the beginning of the fall the "Fall" screen is displayed



The data transfer is underway to the dropper (and therefore the WebApp screen), there is a scroll bar



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The head Calculated data



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Note: the third number in [hook] ensures and guarantees the hundredth displayed







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The head Battery Menu - Battery Stallion



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If during the "Lugdosphere" screen the sensor is short-circuited then the battery will be calibrated, a push of the button on off at the end allows you to get out of the menu, The sensor is short-circuited when a conductive metal part connects the magnet plate and the feeler (e.g. the magnet)



A push of the button allows you to go out and continue the classic start of the machine





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The head Menu

To access the menu you have to press the button when the screen reads "No Drop Base... » The Firmware screen then appears with an arrow on the right side

Firmuare: 2.20.12 SH: LU2040330 20000 sample/sec Bibrax One Tête H.I.C série H2 New support brings to Bluetooth screen



New support brings Batteries to the Batteries screen





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The head Menu (continuation)

> New support brings Radio Frequency signal (Wi-Fi strengh) to the screen



The head Menu - accelerometers



New support brings to the accelerometers screen



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Note: the three axes must be between 0 and 2g



The head Menu - Gtrans



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Note: Gtrans must be between 0 and 2



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General

To turn off the head you need a 5-sec press on the head button. The countdown has started, 3...



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2....

Shutdown, in 2 seconds

Bibrax One Tête H.I.C série H2

... Goodbye. The logo appears, flashes and the head goes off







You can also inspect...

Football

Synthetic turf used, for example, in football or rugby stadiums must meet many requirements, including the residual level of impact between a player's head and the playing surface.

https://www.lugdosphere.fr/domaines-dact





General



The Lugdosphere is intended for maximum use of up to 300g (which is indeed 150% of the Gmax criterion of the EN1177:2018 standard). However, too repetitive use close to the acceptable limit is a source of accelerated aging for all on-board components.

Normenjeu attracts the user's attention:

- On the one hand, testing a surface with low thickness (lower than 30mm) presents a significant risk of reaching too strong decelerations (gmax).
- On the other hand, on the risk inherent to Method 2 of Standard 1177:2018 "Determination of impact attenuation on site." Indeed, the release is made directly at the free height of fall of the play equipment, in case of surface not at all adequate, the impact can present too strong decelerations. Thus, it is appropriate for the user to probe the surface to measure its thickness. Thus, depending on his experience and these investigations the user may decide to make a first impact at a height below the free height of fall.

Using our headform for impacts at more than 300g will cause the lose of the warranty benefit. Drope base screens

Head screens General

Overview

Using lugsoft

First use

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Using our headform for impacts at more than 300g will cause the lose of the warranty benefit.

It is preferable to properly clean the half-sphere and pay particular attention to its surface condition.

The false head is waterproof and is conditioned in a controlled environment.

It is strongly recommended that :

- you use your distributor to carry out the after sales services.
- You do not open the device on your own. Indeed, it will be on your own risk of damaging the on-board electronics and the warranty will be cancelled.
- Normenjeu recommends the use of PPE when using the Lugdosphere. The user must take all the necessary recommendations to carry out the tests safely and adapt these practices to the test conditions (wind, rain, surface stability...). In particular, he must be careful not to go under the head form and prohibit passage to any other person.

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The ludosphere allows you to release by hand as well as with a fixed drop device like a tripod. Users are informed that the uncertainties of measures described in EN1177:2018 have been determined with tests with fixeddrop devices. Also, handmade impacts increase the uncertainty and decrease repeatability of the measurement. This uncertainty is not quantifiable by normenjeu because it is the result of unskilled and variable factors: user, height, arm position, muscular tone...





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Possibilities of connection disturbance due to civil or military interference of the waves, a high voltage line, by particular networks in large quantities and magnetic fields.

All of these disorders do not disrupt the measurement, but the transfer of data to display the curves. It is advisable to bring the triptych closer: head / dropper / equipment in this case to reduce these disorders.

It is strictly forbidden to recharge the equipment (head or drop) on an unsecured and stabilized current socket, such as those found in vehicles. Risk of short surge but that may damage some electronic components.



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Head screens

General



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Device Settings / Technical Features

Material : Aluminium

Characteristic : 160 mm in diameter - 165 mm in height

Weight : 4600 g

Acquisition : -500G to 500G tri axes

Converter : Digital analog 12 bit

Height measurement : accuracy greater than centimetre

Display on the head : height, HIC, gmax, duration of shock and calculation

Battery : Lithium

Connection : Bluetooth

According to : Norme EN1177-2018

Acquisition frequency : 20kHz

Power: 8.4V - 1A

Sealing: Water and dust waterproofing (IP65)



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General

To ensure the maintenance of the technical and metrological characteristics as well as the guarantee of your Lugdosphere, it is necessary to respect the periodicities of your maintenance book..

Maintenance must be carried out by standard at a controlled environment. No part of the equipment should be opened by a third (zero warranty, risk of damage).

The lugdosphere is designed to work in any type of atmosphere including wet. The equipment is waterproof. Before storing your device after a use in wet conditions, wipe well the equipment before packing it in an open suitcase in a dry and temperate environment.

During testing, it is important to check the gmax of the impacts.

The range of use covered by the device is up to 300 g. Overspending cancels the warranty.

As part of the inspections, it is advisable to check the fall height and CFH on a reference surfaces :

- After a maintenance
- After calibration
- After a period of no use of more than 1 month
- If in doubt





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