


LX navigation



Instruments | 2018
Grand catalog 



WE ALL SHARE THE SAME PASSION.

Vario navigation system	1
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Collision avoidance	16
Powered aviation	19
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Accessories	29

Our story began over four decades ago with a simple attempt of designing an electronic variometer which was an instant success.

A pilot based company of highly motivated engineers developed over 50 devices, a great majority is still in use all over the globe. First digital instruments lead to the first GPS based navigation systems following the first smart, colour display navigation. With fast improving technology we are developing smaller, lighter and better instruments.

In continuous partnership with Flarm, we produced over 10.000 devices and accessories helping to avoid mid-air collisions.

Throughout the years we successfully sponsored a dozen of glider pilots with our instruments, support and know-how.

With progressive development, we strive to design and produce the best avionics.

With a network of dealerships, we are present on every continent, covering more than 25 countries with products, support and knowledge.

The future of flight navigation is bright and full of surprises. Let us guide you on your journey.

Your LX Navigation team

**ALWAYS IN PAIR, ZEUS WITH VARIOMETER
MAKES THE PERFECT COMBINATION.
4 DIFFERENT SIZES,
TO FIT INTO EVERY GLIDER.**

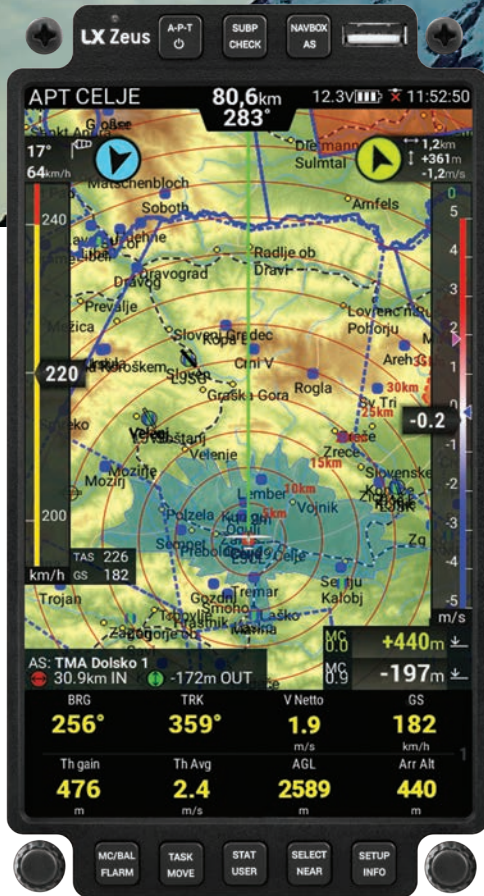


LX FUTURE VARIOMETERS

It is your decision which variometer you will use with Zeus. Do you prefer digital or analog vario needle? Classic or futuristic?

DISCOVER MORE AT www.lxnavigation.com

NAVIGATION SYSTEM OF THE GODS.



Zeus 7.0

2.8°, 4.3°, 5.5°, 7.0°

High-end vario navigation system.

- Sunshine readable display
- All data transfer via USB stick
- 3 turnpoint and airspace files can be active simultaneously
- Up to 3 GPS inputs
- Short/long press buttons
- Installation as landscape or portrait
- ICAO charts available
- Supports Rogersdata ICAO charts
- Custom page layout (colours, navboxes,...)
- Automatic MacCready function
- Improved FLARM radar indication
- Plug and Play accessories via CAN BUS
- Controls your Radio and Variometer
- 3D terrain display
- New features with every OS update
- Simultaneous airport, turnpoint and task navigation



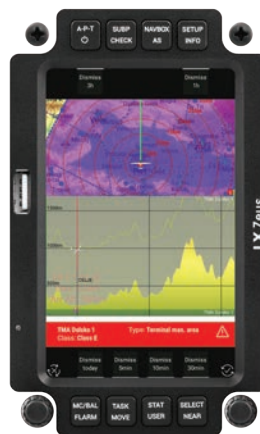
DIFFERENT SCREEN SIZES, LANDSCAPE OR PORTRAIT.



Zeus 7.0



Zeus 5.5



Zeus 4.3



Zeus 2.8

Features

Custom layout

Design the layout of pages by your own needs and wishes.

New turnpoint helper

When to start turning to enter the sector.

Start line conditions

Time, altitude and ground speed
when crossing the line.

Dynamic altitude

Chose between two types of final glide calculation.

Automatic MacCready

User can select between Manual, Last 5 thermals and Day average.

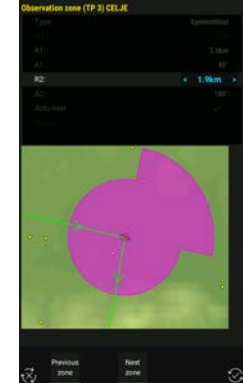
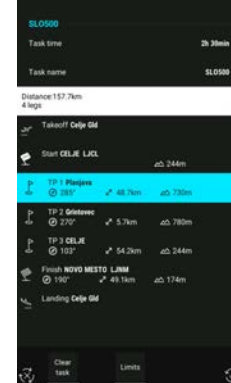
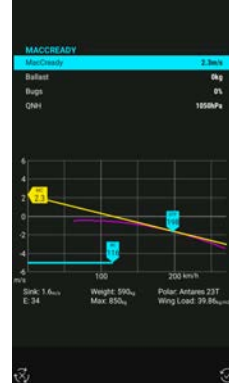
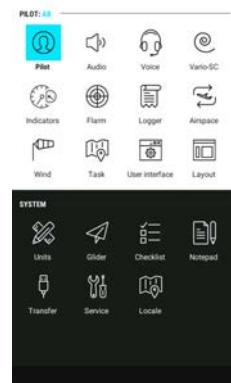
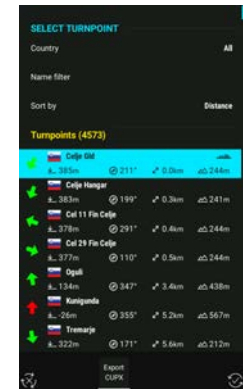
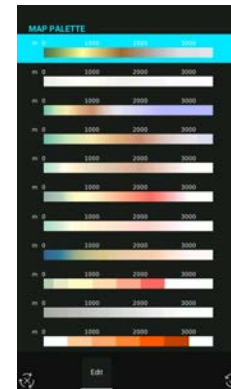
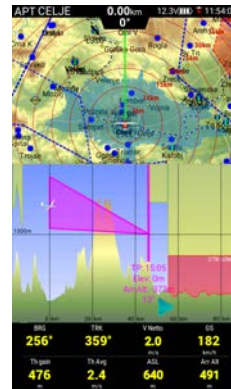
Detailed maps

Discover new maps with more
and better details than ever.

User friendly GUI

Advanced and easy to use
interface for the best experience.

Completely new operating system.

3 VARIO NAVIGATION SYSTEM lxnavigation.com

Zeus OS 4

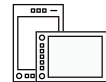
Compare
and decide.



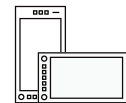
Zeus 2.8



Zeus 4.3



Zeus 5.5



Zeus 7.0

	Zeus 2.8	Zeus 4.3	Zeus 5.5	Zeus 7.0
Screen size	2.8"	4.3"	5.5"	7.0"
Size	82 x 82 x 52 mm	136 x 83 x 52 mm	146 x 106 x 52 mm	190 x 110 x 52 mm
Weight	300 g	465 g	500 g	595 g
Resolution	320 x 240 px	480 x 800 px	480 x 640 px	800 x 640 px
Brightness	1200 cd/m ²	1200 cd/m ²	1200 cd/m ²	1200 cd/m ²
CPU	1 Ghz Arm Cortex A8	1 Ghz Arm Cortex A8	1 Ghz Arm Cortex A8	1 Ghz Arm Cortex A8
RAM	512 MB DDR	512 MB DDR	512 MB DDR	512 MB DDR
Memory	32 GB	32 GB	32 GB	32 GB
USB port	USB mini	USB-A	USB-A	USB-A
Power usage	200 mA	300 mA	500 mA	550 mA
Buttons	4/4	4/4	5/3	5/3
Rotary knobs	2	2	2	2
FLARM input	✓	✓	✓	✓
CAN BUS	✓	✓	✓	✓
Variometer	Eos 57/80, Era 57/80	Eos 57/80, Era 57/80	Eos 57/80, Era 57/80	Eos 57/80, Era 57/80

SMART VARIOMETER EVEN SMARTER.

Eos 57

Easy to use all-in-one variometer and air navigation device.



- Outstanding high contrast display
- IGC certified flight recorder with ENL
- Integrated G-meter (G-force recorder)
- 3-axis gyroscope and accelerometers
- Integrated GPS receiver and voice module
- Rotary knob with push function
- 8 GB of internal memory
- 5 status inputs (SC, VP, Gear, Brakes, Flaps)
- OAT probe input (temperature)
- Internal beeper (for Flarm warnings)
- Flarm port (input of Flarm data)
- PDA/PNA port
- Bluetooth connectivity
- External SD Card slot
- Built-in rechargeable backup battery (up to 3 hours of autonomy)
- Power consumption: 150 mA @ 12V



EVERYTHING YOU NEED ON THE BIG SCREEN.



Eos 80

Future digital variometer with analog needle.

- Transflective, high contrast display
- IGC flight recorder with ENL
- New LX One Chip
- 8 GB internal memory
- WiFi and Bluetooth 4.0 + BLE
- Integrated G-meter (G-force recorder)
- 3-axis gyroscope and accelerometers
- Rotary knob with push function
- Integrated GPS receiver
- Built-in voice module
- OAT probe input (temperature)
- External SD Card interface
- Built-in rechargeable backup battery (up to 3 hours of autonomy)
- TP, APT, TSK navigation
- Airspace support
- Power consumption: 150 mA @ 12V



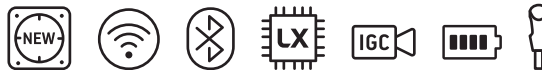
BEST THINGS COME IN SMALL PACKAGES.

Era 57

Easy to use all-in-one variometer and air navigation device.



- 2,5" high contrast display
- IGC flight recorder with ENL
- New LX One Chip
- 8 GB internal memory
- TP, APT, TSK navigation
- Airspace support
- WiFi and Bluetooth 4.0 + BLE
- Integrated G-meter (G-force recorder)
- 3-axis gyroscope and accelerometers
- 2 rotary knob with push function, for simple and effective handling
- Integrated GPS receiver
- Built-in voice module
- OAT probe input (temperature)
- External SD Card interface
- Built-in rechargeable backup battery (up to 3 hours of autonomy)
- Power consumption: 150 mA @ 12V



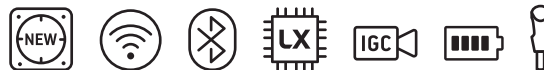
WE DESIGNED THE FUTURE OF VARIOMETERS.



Era 80

Future variometer with digital needle.

- 3,5" transfective display
- IGC flight recorder with ENL
- New LX One Chip
- 8 GB internal memory
- Integrated G-meter (G-force recorder)
- 3-axis gyroscope and accelerometers
- WiFi and Bluetooth 4.0 + BLE
- Integrated GPS receiver and voice module
- 2 rotary knob with push function
- OAT probe input (temperature)
- External SD Card interface
- Built-in rechargeable backup battery (up to 3 hours of autonomy)
- TP, APT, TSK navigation
- Airspace support
- Power consumption: 150 mA @ 12V



BASIC VARIOMETER WITH MANY FUNCTIONS.

Helios

57 mm



Simple standalone variometer with backup battery.

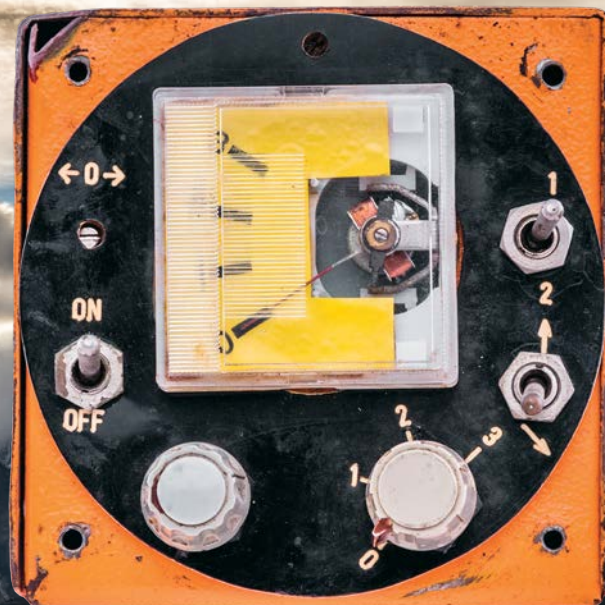
- High contrast display
- Integrated G-meter (G-force recorder)
- External GPS data based final glide calculation
- Flarm radar and Thermal assistant screen
- Built-in rechargeable backup battery (up to 3 hours of autonomy)
- Navigation to take off location
- Flight information with Barograph
- Accurate wind calculation in circling
- System extensions: Second seat configuration, NavBox, Remote control (LX Joy)
- Speed-to-fly function
- Logbook
- Power consumption: 150 mA @ 12V



**UPGRADE YOUR OLD DEVICE.
CONTACT YOUR LOCAL DEALER
TO DISCOVER OUR
UPGRADE PROGRAM.**

EV-80 VARIOMETER

This was one of the first electronic variometers produced by LX navigation by the name of EV-80, designed in 1978.



DISCOVER MORE AT www.lxnavigation.com

Features

Simple page layout

Direct access to pages via rotary knob.

Speed tape

Control your speed as a side bar with colour range.

Quick settings

Just a push away are volume, QNH, MacCready, ballast and bugs.

Rotary keyboard

Simple and easy to use keyboard operated via rotary knob.

TP, APT and TASK navigation

Quick editing and controlling your navigation.

Airspace indication

Avoid the airspace in your way with visual and audio warnings.

User friendly GUI

Advanced and easy to use interface for best experience.

Completely new vario operating system.

Vario OS 1

Eos 80 variometers



Era variometers



Compare
and decide.



Eos 57



Eos 80



Era 57



Era 80



Helios

	Eos 57	Eos 80	Era 57	Era 80	Helios
Vario indicator	Analog	Analog	Digital	Digital	Analog
Size	60 x 60 x 95 mm	82 x 82 x 52 mm	62 x 62 x 52 mm	82 x 82 x 52 mm	82 x 82 x 52 mm
Display	1.8"	2.7"	2.5"	3.5"	1.8"
Battery	Up to 3h	Up to 3h	Up to 3h	Up to 3h	Up to 3h
IGC flight recorder	✓	✓	✓	✓	✗
MOP sensor	Optional	Optional	Optional	Optional	✗
AHRS	Optional	Optional	Optional	Optional	Optional
Bluetooth	✓	✓	✓	✓	✗
WiFi	✗	✓	✓	✓	✗
AIRPORT navigation	✗	✓	✓	✓	✗
TASK navigation	✓	✓	✓	✓	✗
TURNPOINT navigation	✓	✓	✓	✓	✓
AIRSPACE support	✗	✓	✓	✓	✗
PNA/PDA connectivity	✓	✓	✓	✓	✗
FLARM input	✓	✓	✓	✓	Optional

YOUR PERSONAL TOUCHSCREEN FLIGHT RECORDER.



Colibri X

All new exciting touchscreen flight recorder and much more.

- IGC flight recorder with ENL
- 3.5" transfective, touchscreen display
- Intuitive swipe operating
- Altimeter with QNH input
- Built-in GPS receiver and GPS antenna
- SD card for data transfer
- Built-in rechargeable battery (up to 15 hours of autonomy)
- Audio-visual warnings
- Top edge components
- Variometer with thermal assistant
- Wind calculation
- Custom NavBox bar
- TP, APT and TSK navigation
- Airspace support
- Bluetooth and WiFi connectivity



Features

IGC flight recorder with ENL

Your new Colibri X is a smart backup instrument with the highest level IGC certification with ENL.

Completely new operating system.

Variometer and much more

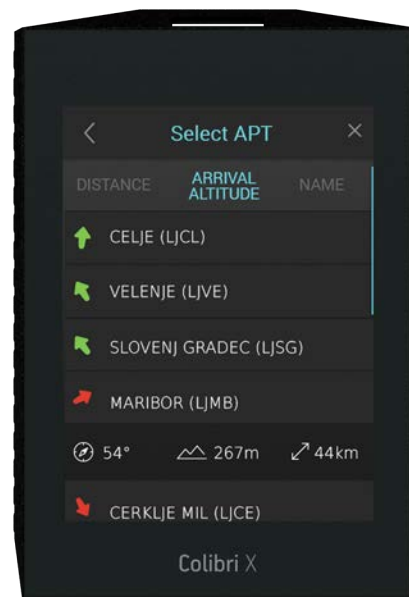
Altimeter with QNH, GPS, Wind calculation, Thermal assistant, Airspace support, Audio-visual warnings etc.

Navigation device

Turnpoint, Airport and Task navigation with airspace support is basically everything you need.

Operating system

Completely new user friendly interface with optimized operating system for the best experience.



REFURBISHED ICON IS BACK.

Colibri II

Still the smallest flight recorder with built-in display.



- IGC flight recorder with ENL
- Built-in GPS receiver and GPS antenna
- NMEA output
- Built-in rechargeable back-up battery (up to 10 hours of autonomy)
- Built-in battery charger (5V via USB cable)
- SD card for data transfer
- Internal memory for flight storage
- Basic variometer with audio
- Altimeter with QNH input
- Basic turnpoint navigation
- Basic task navigation
- Flarm page if Flarm connected



MULTIPLE AIRCRAFT, ONE FLARM.



FLARM *EAGLE* MOBILE

FLARM Eagle with battery and LED display.



- Brand new PowerFLARM OEM Module
- Brand new LED display
- Lightest and smallest PowerFLARM available
- Improved transmitting and receiving
- IGC flight recorder and ENL sensor optional
- ADS-B receiver optional
- WiFi and Bluetooth optional
- Diversity module optional
- Standard RJ12 data, SMA GPS and SMA FLARM RF connectors
- USB port for communication
- Up to 12 hours of battery autonomy
- Internal beeper for audio warnings
- Lightweight design



COLLISION AVOIDANCE SYSTEM IS A MUST HAVE IN A PLANE.



FLARM EAGLE

Fly safely and stay in control.

- Brand new PowerFLARM OEM Module
- Lightest and smallest PowerFLARM available
- Improved transmitting and receiving
- IGC flight recorder and ENL sensor optional
- WiFi and Bluetooth optional
- Diversity module optional
- ADS-B receiver optional
- Standard RJ12 data, SMA GPS and SMA FLARM RF connectors
- Power consumption: 80 mA @ 12 V
- Power supply: 9-36 V DC





Traffic monitor

57 mm / 80 mm

Colour display II

LED display

Standalone traffic monitor.

Small FLARM display.

Low power LED indicator.

- 2,5" / 3,5" transreflective display
- Flarm radar screen (ADS-B and FLARM Traffic)
- Micro-SD card slot for data input and output
- Audio and visual warning information
- WP/RTE/TASK navigation
- Airspace warnings
- Flarm.net list supported (or custom competition numbers)
- 2 x RJ45 input and output to connect FLARM and ADS-B simultaneously
- Flight statistics and logbook
- Compatible with all FLARM units

- Flarm "radar" display shows complete traffic information including ADS-B traffic
- User-friendly handling via multifunction switch
- Near glider data display (Vario, ID, ...)
- Audio and visual warning information
- Original FLARM ID to competition number customization
- Compatible with all FLARM units
- Flarmnet list supported
- Turnpoint navigation (.cup)
- SD card slot

- Green and red colour LED indication
- Horizontal and vertical indication of position
- Compatible with all FLARM units
- Plug and play installation
- Push button for handling
- Low power consumption
- Audio warnings

NAVIGATION SYSTEM FOR POWERED AIRCRAFT.



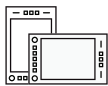
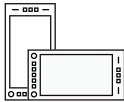
528 / 543 / 555 / 570 *2.8", 4.3", 5.5", 7.0"*

Equip your ultralight, microlight or TMG.

- Flight recorder and logbook
- Airspace warnings and checklist function
- NEAR function for airports and waypoints
- Flight and route statistics
- ADS-B and flarm traffic monitor
- Simple fuel consumption calculation
- Extremely bright and readable display under any conditions
- Preloaded world terrain maps, airspace and airports
- Free upgrades of airport and airspace database
- Unlimited pre-programmed routes





				
	528	543	555	570
Screen size	2.8"	4.3"	5.5"	7.0"
Size	82 x 82 x 52 mm	136 x 83 x 52 mm	146 x 106 x 52 mm	190 x 110 x 52 mm
Resolution	320 x 240 px	480 x 800 px	480 x 640 px	800 x 640 px
CPU	1 GHz Arm Cortex A8	1 GHz Arm Cortex A8	1 GHz Arm Cortex A8	1 GHz Arm Cortex A8
Memory	32 GB	32 GB	32 GB	32 GB
Power	200 mA	300 mA	450 mA	475 mA
Weight	300 g	465 g	500 g	595 g
Power usage	200 mA	300 mA	500 mA	550 mA

A SMART WAY TO CONTROL YOUR PROPELLER.



Constant speed

57 mm / 80 mm

Control your propeller with one smart device.

- Sunshine readable display
- Safety manual/auto switch
- Quick and smart preset buttons
- Warning alerts
- Large values for better visibility
- Easy to install, easy to use
- Digital indication
- Optional Flap control



For all variable pitch propellers
produced by Woodcomp company.

WOODCOMP
ALES KREMEN

REVOLUTIONS CAN BE MEASURED.

RPM indicator

57 mm / 80 mm



Standalone RPM unit, connected via single signal source.

- Outstanding high contrast display
- Digital and analog RPM indication
- Displays current RPM and time totalizer
- Single cable communication
- Custom scales available
- Plug and play installation



A SMART PILOT WILL ALWAYS CHOOSE A SMART INSTRUMENT.



Salus

57 mm / 80 mm

All in one instrument with internal backup battery.

- Airspeed, altitude and climb rate indicator
- Adjustable baro level
- Built-in GPS receiver
- Audio warnings
- Built-in battery (3 hours)
- Navigation to WP and RTE
- Flight information with barograph
- Logbook
- Accurate wind calculation
- 3-axis gyroscope
- 3-axis accelerometers
- External SD Card slot
- CAN BUS Plug & play indicators (Climb rate, Altimeter, LX NavBox, AHRS...)



Compliant with Light Aircraft Association requirements, standards and testing.

SALUS, ALTITUDE AND CLIMB RATE INDICATOR.



Air Dat II

57 mm / 80 mm

Complete system for your powered aircraft.

- LX Salus is the main unit, connected to indicators via CAN BUS
- Indicator can be supplied in 57 or 80 mm size
- Second seat (repeater) is available
- Custom units and scales are available
- AHRS module compatible
- NavBox compatible
- Plug and play installation



ONCE YOU TRY IT, YOU CAN'T DO WITHOUT.



Horizon

57 mm / 80 mm

Helps you to find the way in low visibility conditions.

- Attitude and heading reference system (AHRS)
- CAN bus for power and data transfer
- Standalone or with other LX devices
- Super accurate measurement of actual airplane position in 3D space
- 8 sensors (3 gyros, 3 accelerometers, IAS and altitude sensor)
- Customizable layout
- Quickly adjustable baro and pitch offset
- Adjustable plane icon (glider, powered aircraft)



**AND BECAUSE WE ARE PILOTS,
WE KNOW WHAT YOU NEED,
AND WHAT YOU NEED
IS ONLY THE BEST.**

LX PREMIUM POLO SHIRT

High-quality cotton polo shirt with just a dash of elastane for maximum comfort. Wear it on a sunny day at the airport or just as casual sunday shirt.

DISCOVER MORE AT www.lxairwear.com



FLY, NAVIGATE, COMMUNICATE.



KRT 2

EASA Form 1 - EASA.210.10038036

8.33 kHz radio transceiver.

- VHF transceiver for aircraft installation
- Frequency range from 118.000 to 136.975 MHz
- Channel spacing 8,33 / 25 kHz
- 2 microphone inputs (2 x standard or dynamic)
- 100 user defined frequencies (8 characters)
- Audio input for connection of NF-sources e.g. MP3 Installation:
- Aerospace standard cut out (57 mm)
- Mini version (63 mm x 46 mm)
- Plug and play with LX devices



SUPPORT SAFETY, SHARE YOUR POSITION.



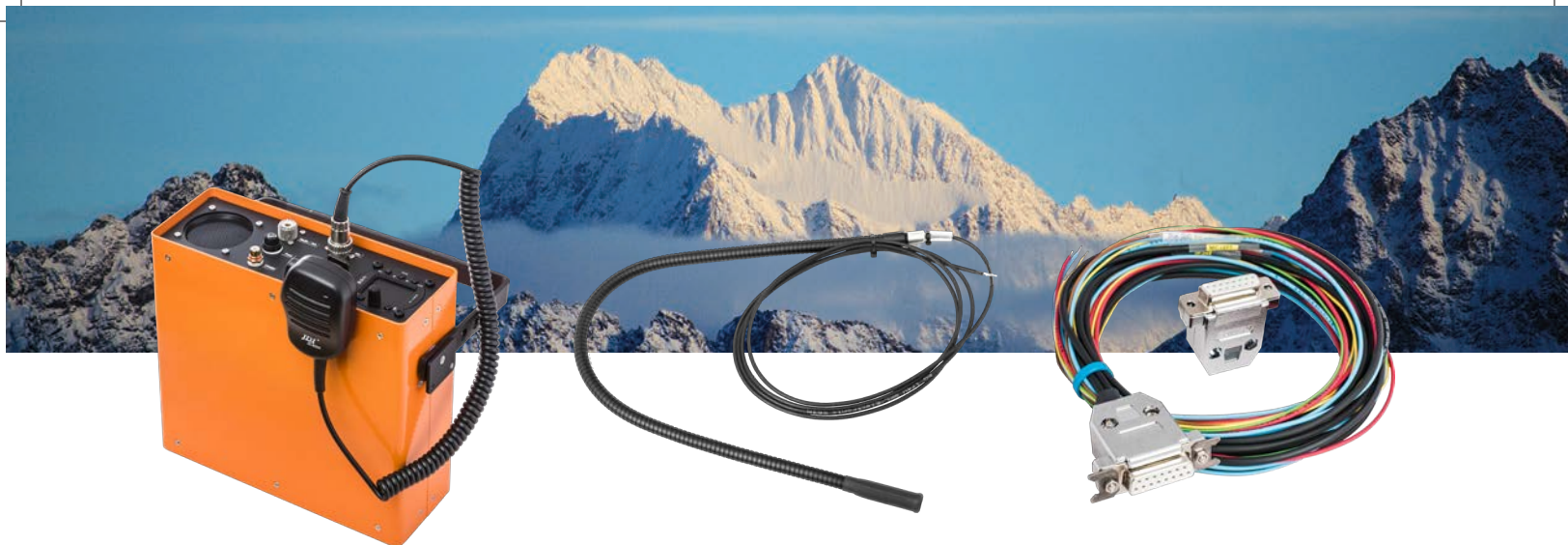
KTX 2

Ideal Mode S transponder.

- Low weight of only 360 grams
- Compact dimensions
- Minimum power consumption perfect for battery operation in gliders and balloons
- Large, high-contrast, long-life TFT colour display for maximum readability – even in direct sunlight
- Intuitive operation – developed by pilots for pilots
- Excellent price/performance ratio
- Installation:
 - Aerospace standard cut out (57 mm)
 - Mini version (63 mm x 46 mm)
- Plug and play with LX devices



EASA Form 1 - ETSOA.210.10055186



Ground station

Portable ground station.

- Ground unit prepared for KRT2 radio and KTX2 transponder with wiring, battery, charger, microphone with speaker, radio antenna, transponder antenna
- Super durable aluminium housing
- Enhanced signal range
- 12V 7,2 Ah longlife Pb battery
- Option: Ground station only for KRT2

Microphone electret

Electret gooseneck microphone.

- High sensitivity electret microphone
- Easy installation
- No need to talk close to the microphone
- No critical grounding
- Length 50 cm, 10 mm mount
- Operates from a standard 8V DC source
- For KRT2: gain level 3-6

Adapters & connectors

Various accessories.

- Different cable sets depending on the airplane type
- Different plug adaptors for other radio stations
- LX device communication cables
- Cable amplifiers for dynamic microphone

**AND THERE
IS NOTHING
MORE PRECIOUS
THAN TO
SHARE THE
SAME
FEELINGS.**

LX MALIBU HOODIE

Shaped lightweight performance micro fleece
with windproof protection and pockets.



DISCOVER MORE AT www.lxairwear.com

EQUIP YOUR GLIDER WITH LX ACCESSORIES.



Flaps sensor

Control flaps.

The unit is capable to detect longitudinal movement of the flaps lever command rod. The device, which converts longitudinal movement into an electrical signal, is a high-quality wire-wound multi-turn potentiometer.



Nav Box

Emphasize what matters.

We created hardware equivalent of our famous software Nav-Box system available on Zeus device. High contrast display, 3 pages, different settings for SC and Vario mode, AHRS page, CAN bus for power and data transfer (compatible with all LX CAN devices).



Joy

Operate our devices with joy.

Operate your LX devices with ergonomic, real leather joystick. It consists of 5 push buttons, 1 navigation switch with push button (4 axes and 1 enter), 1 LED indicator and 1 button at the back for SC. It has 3 modes: Normal, Zoom/Volume and PAN mode.



Fuse holder

Protect your Pb battery.

A small but smart device which will protect your devices against under voltage, short circuits and over current.



MOP IGC

Standalone MOP flight recorder.

Worlds first standalone MOP flight recorder with IGC approved sensor for gliders equipped with jet or electric engines.



AHRS

Artificial horizon module.

A new digital attitude and heading reference system (AHRS) developed for a very accurate measurement of current airplane position in 3D space.

LX navigation



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