

LINESCALE 3I+



New LineScale 3i+ version coming soon in April 2026. Updates include better temperature compensation and torsion resistance to further increase accuracy, greater rounding of load eyes to be even more gentle on textiles, improved screen scratch resistance, new compact and versatile EVA case, and new waterproof USB flash drive. Order now to receive the new model when it arrives.

When accuracy matters, choose the all-in-one load cell that is strong, smart, and ultra fast.

LineScale 3i+ is a high-strength, high-speed load cell designed for the demands of rope rescue, rope access, and technical rigging. Milled from solid aluminum with a 90 kN minimum breaking strength and PPE certification, it excels as a single master point in critical operations such as drop testing or twin tension rope systems. The clear digital display and Bluetooth connectivity provide instant feedback in the field, while the rugged build and included components make it easy to protect, transport, and deploy.

Engineered for performance and insight, LineScale 3i+ measures up to 1,280 samples per second—capturing peak loads with unmatched precision, even in dynamic events. Its on-board storage saves over 200 million data points and supports 50 hours of continuous operation. When it's time for after-action review, the USB data transfer is quick and intuitive, simplifying analysis. With its long battery life, water resistant rating, and free app, LineScale 3i+ ensures you're fully equipped for the task, whether you're monitoring anchor forces or evaluating system performance under real-world loads.

A next-level teaching tool and powerful addition to any rigging cache, LineScale 3i+ improves testing protocols, training outcomes, and decision-making for live operations. [Read our blog](#) on specific use cases for rescue, rope access, and training. The LineScale 3i+ is also an ideal load cell for wider applications including stage rigging, events, entertainment, concerts, circuses, industrial monitoring, lab testing, and aerospace.

Features

- **Strong:** Milled from solid aluminum with a 90 kN MBS and PPE certification – excels as a single master point in rigging scenarios including drop tests and TTRS.
- **Smart:** Log up to 50hrs of data and store 230 million data points for easy extraction and analysis. Monitor and record remotely via Bluetooth and the [free app](#).

- **Fast:** Speed is critical for measuring dynamic events. LineScale 3i+ captures precise data at 1,280 samples per second – ensuring you don't miss the peak load.
- **Fully Equipped:** Comes with a full set of accessories for easy transport and deployment including the padded case, screen protectors, and USB connectors.

Specifications	
Minimum Breaking Strength	90 kN (20,232 lbf)
Working Load Limit	30 kN (6,744 lbf)
Scan Rate (Onboard / USB)	Fast: 1,280 Hz; Slow: 640 Hz
Scan Rate (Bluetooth)	Fast: 40 Hz; Slow: 10 Hz
Measuring Accuracy	+/-0.75%; +/-0.5% at 3-15 kN
Display Units	kgf / lbf / kN (Digit Height: 2 cm)
Storage Capacity	50 hrs of logs; 230 million data points
Operating Endurance	50+ hrs in powersave; 20 hrs Bluetooth
Operating Temperature	0-40 C (32-104 f); tested to -10 to 50 C
Battery Type	3.7V 1600 mAh Lithium Polymer
Protection Class	IP68-0.1 (waterproof to 0.1 m for 1hr)
Body Material	High strain aviation aluminum LY12CZ
Dimensions (L x W x H)	19 x 9 x 2 cm (7.5 x 3.5 x .8 in)
Load Eyes	5.8 x 3.7 cm (R28 D-Shape)

Comes Fully Equipped

- LineScale 3i+ Load Cell
- EVA Hard Case w/ Padding
- Rubber Edge & Screen Protector
- Anti-Glare Screen Protector
- 4 gb Dual-USB Flash Drive
- 7 cm Micro-USB Adapter Cable
- Firmware Upgrade Dongle
- Quick Start Guide & Manual
- [Purchase Accessories & Spart Parts Here](#)

Certifications

- CE
 - PPE certified in compliance with Regulation (EU) 2016/425
 - Recommended for use according to PPE-R/11.114 V3:2021
 - Issued by VG11 (Protection against falls from a height)
- UIAA
 - UIAA 130 V1:2021 safety label for load-sharing devices
- [Download the certification documents](#) from the LineGrip website

Software

- [Download the free app](#) from the LineGrip website (iOS & Android)
- Coming soon – high speed USB live logging direct to computer

More Information

- Have LineScale questions? [Search the Knowledge Base](#) for answers!
- Need to replace anything in your LineScale kit? [See our spare parts.](#)
- For the LineScale **Factory Batch Calibration Certificates**, [go here!](#)
- Have a repair or warranty concern? [Fill out our RMA Form](#) to get started.
- For orders/services in **Europe**, please [contact LineGrip in Germany.](#)
- For orders/services in **AUS/NZ**, please [contact Southern Cross in Sydney.](#)

From the Field

“The LineScale is a tremendous improvement to my gear, my systems testing for research, and my tool kit for teaching. It has a ton of features and settings that just weren’t available at the price point previously. Some of my favorite things about it are the massive omni-directional collection points that accommodate a variety of rigging configurations, the internal data storage, reliable Bluetooth (and a great app to accompany it!), and its high resolution and measurement range. I have abused my LineScale for 3 years, and it’s held up great.”

–Justin Wheaton, CMC School Instructor

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[DOWNLOAD THE APP](#)

NAME	LOAD CELL, LINESCALE 3I+
WEIGHT	530 G (1.17 LB)
COLOR	GRAY
DIMENSIONS	19 X 9 X 2 CM (7.5 X 3.5 X .8 IN)
CERTIFICATIONS	CE PPE-R/11.114 V3:2021; UIAA 130 V1:2021
MBS	90 KN (20,232 LBF)
WLL	30 KN (6,744 LBF)

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