



Elekta Esprit

a Leksell Gamma Knife[®]

Protect the mind
Protect the person





Elekta Esprit

The latest Leksell Gamma Knife® is designed to do more than just preserve life—it's designed to preserve a whole lifetime

Continuing the Leksell Gamma Knife tradition, its submillimeter accuracy redefines what is thought possible in stereotactic radiosurgery.

By treating even the smallest, most challenging intracranial targets while protecting essential healthy tissue, you can effectively treat the patient while keeping their self, safe.

Elekta Esprit

**The most advanced, integrated and efficient
Leksell Gamma Knife from Elekta**

Esprit is the perfect combination of precision and performance,
providing a best-in-class treatment experience for you and
your patient.



Dedication in design



Patients at the center



Proven beyond compare



Dedication in design

Protecting essential healthy tissue

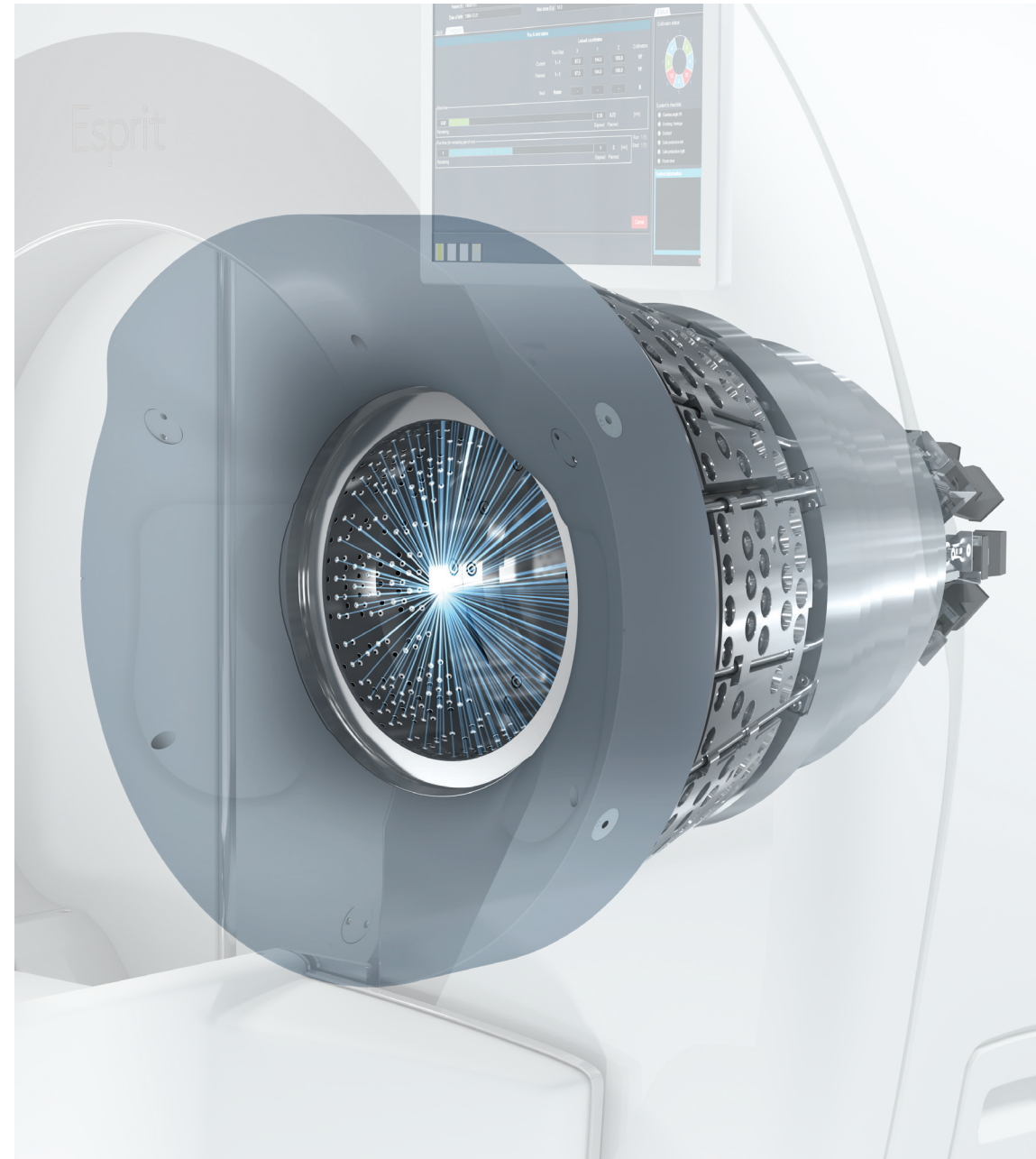
Based on decades of innovation, Elekta Esprit evolves to the next level, providing exceptional precision and submillimeter accuracy within a seamless integrated system.

Guaranteed accuracy¹ of 0.3 mm

Dose delivered to the healthy brain tissue is

2–4x lower than other technologies²

2–21x lower extracranial dose than other technologies³



¹ With a valid service contract

² Ma L, Nichol A, Hossain S, et al. Variable dose interplay effects across radiosurgical apparatus in treating multiple brain metastases. Int J CARS. Published online: 20 April 2014. doi: 10.1007/s11548-014-1001-4

³ Di Betta E, et al. Med Phys. 2010;37(7)

A cutting-edge operator experience

The treatment delivery experience in the control room is smooth, modern and cutting edge.

Minimal desktop footprint

A single keyboard and mouse and compact twin screen contributes to minimal desktop footprint and ease of operation.

Function keypad

Easy-to-use function keypad with ergonomic design and intuitive symbols.



Flexibility in treatment workflows

The potential to treat patients with hypofractionated, staged or adaptive approaches opens up new paradigms for treatment protocols, enabling treatment of larger targets and targets close to critical structures.

Frame-based or frameless immobilization

Esprit is designed to achieve high accuracy regardless of whether immobilization is frame-based or mask-based.

Treat more patients with improved efficiency

Streamlined, adaptive and flexible workflows also result in increased efficiency and contribute to a high patient throughput.

Time matters to patients, practitioners and hospitals. Same-day SRS closes the gap between imaging and treatment.

 Elekta

Esprit



99% average system uptime⁴



>1000 patients/year potential throughput⁵



Nearly 60 indications treated with Leksell Gamma Knife⁶

The QA procedure for Elekta Esprit is fast and fully automated. It is integrated in the system with no need for external QA tools (e.g. water phantoms). Patient-specific QA is not required.

System Accuracy QA **less than 10 min/day**

Treatment plan QA (optional) **5 min/patient**

⁴ With valid Elekta service contract

^{5,6} Based on LGK Society Treatment statistics

Precise, integrated, and efficient treatment planning

Leksell GammaPlan® is a sophisticated treatment planning and management software that **is fully integrated with** Esprit and designed specifically for the needs of the brain. Specialized tools make full use of the advanced technology incorporated into Esprit, while providing safe and efficient workflows.

High-speed treatment planning optimization

Leksell Gamma Knife Lightning is the first treatment optimizer for intracranial radiosurgery that introduces beam-on time penalization and constraints. **In less than a minute**, Lightning can create treatment plans that can improve treatment delivery times while maintaining high conformality and consistency of treatment plans.

Boost productivity by reviewing, collaborating, and sharing treatment plans remotely

Collaboration on treatment planning is made easy with **Leksell GammaPlan Remote**



Flexible and secure access to your Leksell GammaPlan for treatment planning, review and approval from remote locations



Effortless clinical collaboration through remote screen sharing and remote learning



Improved participation in clinical decisions and much more



Open design enables the care team to see and communicate with the patient during the entire treatment process

Patients at the center

A gentler treatment alternative to conventional radiotherapy treatment and invasive surgery for many debilitating intracranial conditions, Esprit enables the safe treatment of fragile or pediatric patients.

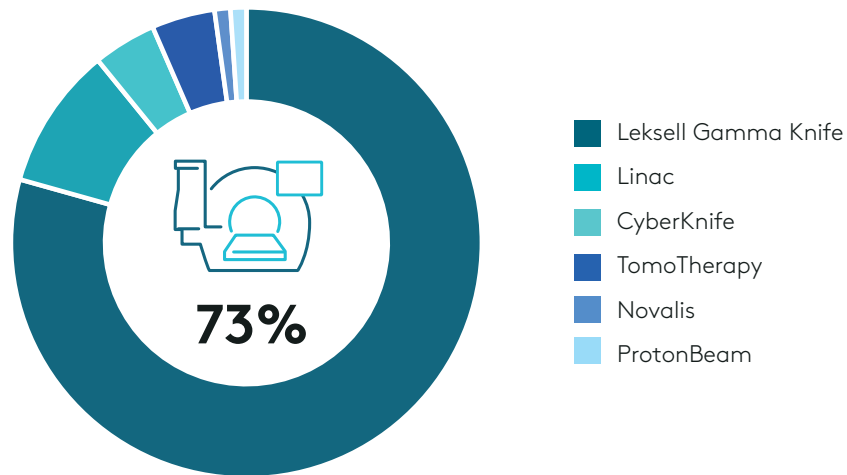
Very low dose outside target contributes to the safe and effective treatment of patients with minimal side effects, ensuring the patient's quality of life is maintained.

Silent treatment delivery creates a calm and comforting atmosphere

Great personal sound quality and connection to devices means that patients have the option to listen to their choice of music and podcasts

Proven beyond compare

Practitioners of Leksell Gamma Knife radiosurgery have contributed to unparalleled peer-reviewed clinical evidence to establish Gamma Knife as the gold standard in radiosurgery. Much of this evidence is supported by large patient cohorts (30+ participants) and by long follow-up periods.



3x more publications than all other technologies combined

Mitrasinovic S, et al. Milestones in stereotactic radiosurgery for the central nervous system. J Clin Neurosci. 2019 Jan;59:12-19.

Leadership in stereotactic radiosurgery

All Esprit users will have access to Leksell Gamma Knife Society—a scientific community of more than 1,800 members who share knowledge and drive the development of intracranial SRS.

Visit www.lgksociety.com for more information.

Membership of this well-established society brings a number of benefits

- Global and multidisciplinary membership
- Peer-to-peer collaboration and knowledge sharing
- Annual treatment statistics providing global and regional insights
- Promoting clinical research
- Educational webinars and resources

Elekta Care™ Customer Services



By your side.

Elekta Care is your partner for success. Our people and technology keep you running reliably and efficiently while helping you to optimize outcomes and grow your practice. We are by your side to support you now and deliver a lifetime of high performance and progress.

Elekta Esprit

A seamless integrated system for end-to-end ease of use

Integrated stereotactic cone-beam CT (CBCT) enables frameless workflows, verifies the patient position, sets the stereotactic reference for treatment, using ultra-low dose stereotactic imaging.

No-dose High Definition Motion Management monitors the patient in real time during treatment with 0.15 mm¹ accuracy.

Frame-based or frameless immobilization enables flexible workflows and personalized treatments.



Sophisticated **treatment planning and management software** integrated with Esprit facilitates a range of seamless workflows.

192 low intensity radiation beams deliver precise radiation dose at the target while sparing healthy brain tissue.

¹ Knutson NC, Hawkins BJ, Bollinger D, et al. Characterization and validation of an intra-fraction motion management system for masked-based radiosurgery. J Appl Clin Med Phys. 2019;20(5):21-26. DOI: 10.1002/acm2.12573



We don't just build technology,
we build hope

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