



## Case Study

# CereTom® Featuring EAO E-Stop

## Brings CT Scanning to the Patient

### Company Profile

**Customer name:**

NeuroLogica Corporation

**Industry name:**

Medical Equipment and Devices

**EAO Series:**

Series 84 E-Stops

**Application:**

Emergency Stop on Portable CT Scanner

### Business Challenge

NeuroLogica Corporation creates, designs, engineers, and manufactures innovative medical imaging equipment for healthcare facilities and private practices worldwide. NeuroLogica's imaging systems include CT and SPECT.

The CereTom system brings advanced CT scanning capabilities directly to the patient, and is in use in intensive care units (ICUs), neurosurgical operating rooms, radiology departments, ear, nose, and throat (ENT) offices, neonatal ICUs, maxillofacial surgical suites, emergency rooms, stroke centers, and clinics. The CereTom delivers high quality, non-contrast, angiography, and contrast perfusion scans with a rapid scan time, easy-to-use interface, and immediate image viewing. Its portability allows healthcare professionals to bring CT scanning to the patient – especially critical in situations where moving the patient might adversely affect patient's

condition. The CereTom is FDA cleared, ETL approved, and CE marked. The CereTom meets the American College of Radiology's recommended guidelines for Computed Tomography Dose Index (CTDI). In addition, the dose can be adjusted as low as reasonably achievable (ALARA) to meet clinical diagnostic needs.

Diagnostic equipment manufacturers focus on patient-facing priorities including ergonomics and reassurance. Large diagnostic equipment, where the patient is being scanned from a stationary position, have operator and patient controls to stop the process in case of patient discomfort.

As part of its easy-to-use HMI Systems interface and patient safety commitment, NeuroLogica was looking for a rugged and reliable Emergency Stop that would easily integrate into the CereTom's user-friendly, ergonomically designed controls.

### Solution

## EAO – Your Expert Partner for Human Machine Interfaces



The CereTom delivers high quality CT angiography, perfusion, and non-enhanced CT (NeCT) imaging to healthcare professionals.



NeuroLogica was looking for a rugged and reliable Emergency Stop Switch that would easily integrate into the CereTom's portable, friendly, ergonomically designed controls.



The Series 84 E-Stop with its low back-of-panel mounting at just 18mm maximum, ensures easy installation, as well as reliable operation and operator and patient safety.

EAO works with NeuroLogica to provide Emergency Stop (E-Stop) switches that fit the ergonomic design, user-friendliness, and patient safety of the CereTom.

EAO's Series 84 E-Stops offer a unique low back-of-panel depth at just 18mm maximum, optional illumination, single mono-block construction, and a twist-to-release actuator. Due to their design characteristics and international acceptance, these products allow for great flexibility in many types of equipment within the medical, machinery, and transportation markets. Their low back-of-panel depth makes them an ideal fit for space restrictive applications, including handheld operator pendants. Illumination enhances user awareness in dimly lit areas and provides greater responsiveness in critical situations. The Series 84 E-Stops are rated at 3A 120VAC and 1.5A 240 VAC, and are protected against oil and water to IP 65 standards. Series 84 E-Stops meet international safety specification ISO 13850 and comply with EN IEC 60947-5-1 and EN IEC 60947-5-5 requirements.

EAO's Series 84 E-Stops are an important part of the CereTom's HMI System, ensuring easy operation and patient safety. The ability of the CereTom to bring CT scanning capabilities direct to the point-of-patient-care can be a life-saver in many emergency care situations.

EAO is a global manufacturer of high-quality HMI Components and Systems. EAO develops HMI Components and Systems for applications ranging from transit systems to industrial equipment. Working closely with its customers and the appropriate regulatory bodies, EAO meets and exceeds expectations for panel layout and ergonomics, system integration, and electro-mechanical design. EAO's components and systems undergo rigorous testing to assure reliability, repeatability, and long service life. EAO is ISO 9001, ISO 14001, IRIS, and ISO/TS 16949 certified for automotive and other industry requirements.

### Results

**EAO Corporation**  
98 Washington Street  
Milford CT 06460  
T: (203) 877 4577  
F: (203) 877 3694  
E-mail: [sales.eus@eao.com](mailto:sales.eus@eao.com)  
[www.eao.com](http://www.eao.com)

Member of the EAO Group

