In clinical practice, the use of SmartDose may reduce patient dose depending on the clinical task, patient size, anatomical location, and clinical practice. A consultation with a radiologist and a physicist should be made to determine the appropriate dose to obtain diagnostic image quality for the particular clinical task.
Ziehm Imaging has incorporated SmartDose® in the latest generation of mobile C-arms. There are several new enhancements to our comprehensive concept, which is now in its next generation. It allows the physician and staff to significantly reduce dose while optimizing image quality. SmartDose benefits both patients and staff alike. With significant dose savings, Ziehm Imaging sets the benchmark in user-friendly adjustment of dose exposure.

**New enhancements**

- **ZAIP – ADVANCED INSIGHTS IN FAST-MOVING OBJECTS**
  - benefit from latest improvement of ZAIP algorithm and filters for imaging razor-sharp details of guide-wires and even the smallest vessels

- **LOW DOSE MODE**
  - pediatric key for all anatomical programs to enhance images and lower dose to the patient

- **REMOVABLE GRID**
  - for pediatric and other dose-sensitive procedures to reduce dose

- **OBJECT DETECTED DOSE CONTROL (ODDC)**
  - automatically analyzes the area of interest to minimize dose and optimize image quality

- **REDUCTION OF PULSE FREQUENCY**
  - pulse frequency from 1 to 25 p/s manually or automatically for lower accumulated dose

**HIGH-SPEED ADR – INTELLIGENT PULSED REGULATION**
- reduce dose by taking advantage of latest innovations for faster pulse regulation

**ANATOMICAL PROGRAMS – AUTOMATIC ADJUSTMENTS FOR BEST RESULTS**
- optimize dose and image quality automatically for best results in dedicated anatomical programs

**VIRTUAL COLLIMATORS**
- for exposure-free positioning of collimators

**PREMAG**
- for exposure-free display of magnified X-ray image

**LASER POSITIONING DEVICE**
- integrated in flat-panel/image intensifier and generator housing for accurate placement of C-arm without radiation

**AUTOMATIC ADJUSTMENT**
- automatic adjustment for obese patients with no additional dose increase

**SmartDose**
- Best image quality. Minimized dose.