

**DLCExpert**<sup>™</sup>

Deep Learning Contouring

CLINICAL GRADE CONTOURS.  
**YOUR WAY.**

**MIRADA**  
The Imaging Software People

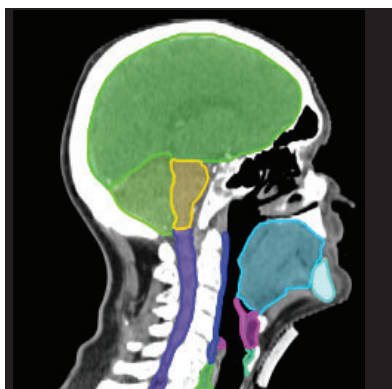
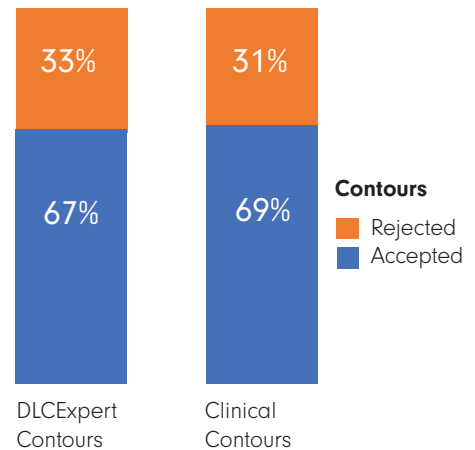
**RT**

## Clinical Grade

### Matching clinician drawn contours

Unlike previously used algorithms, the deep learning models underpinning DLCEXpert™ produce contours that are evaluated as acceptable for clinical use at similar rates to contours that were drawn by clinical experts.

### Mirada Turing Test Results\*



## Contours Your Way

### Adapting to your contouring needs

Once trained on your own cases, DLCEXpert mimics your contouring style and, by extension, adheres to your protocols, suits your preferences, and follows your guidelines.

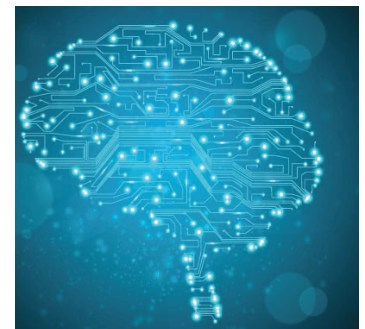
DLCEXpert supports all major anatomical sites, including but not limited to: lung, breast, head, neck, and prostate.

With DLCEXpert you can extend your protocol to include contouring of additional critical structures that would otherwise be too time-consuming to contour manually.

## Deep Learning

### Applying neural networks to contouring

Neural network algorithms can be trained to mimic human behaviors using exemplary datasets as reference. Once trained through a process known as deep learning, the models can perform specific tasks, such as contouring of organs, to a previously unseen degree of acceptability. This is how Mirada's Deep Learning Contouring (DLC) delivers contours that require no more editing than human-drawn contours.



## Integration Into Treatment Planning

### Zero-Click™ Automation

DLCEXpert runs on Mirada's unique Zero-Click platform Workflow Box™, which automates complex radiation therapy imaging workflows and integrates with your PACS and TPS. This platform provides background processing and will typically deliver results ready for when you arrive at your planning workstation. DLCEXpert's contours can then be validated using your existing TPS or Mirada's advanced RTx™ software.

\*Results reported for 550 evaluated contours

# Clinical Grade Contours. **Your Way.**



DLCEXpert™ uses deep learning technology to deliver fully automated organs-at-risk contouring. Our Deep Learning Contouring (DLC) software produces contours by mimicking your own clinical contours. Unlike other algorithms, DLCEXpert consistently delivers contours that are as good as those drawn by human experts, all the while following your guidelines and matching your preferences.



Ready for review and approval



No more contouring bottlenecks



Consistently contoured organs-at-risk



More contours, less contouring

“The contours generated by DLCEXpert are the closest to clinically acceptable contours we’ve seen from any autocontouring system we have evaluated. For some organs, our clinicians found it very hard to distinguish between their own contours and those that were automatically generated.”

Andre Dekker, Professor of Clinical Data Science  
Department of Radiation Oncology  
Maastric Clinic  
Maastricht, The Netherlands

**DLCEXpert**™  
Deep Learning Contouring

## Service and Upgrades

Mirada Medical is passionate about providing world-class customer service. We offer a dedicated telephone support line, as well as an email option to keep you in touch with our support staff. Committed to providing rapid responses to your queries, our experienced clinical and technical specialists work together to swiftly resolve any customer support issue you raise.

Updates are routinely provided at no cost to our service customers, meaning you always have access to our latest products and features.

## Training

We appreciate how important good training is in enabling you to make the most of your investment. Available for on-site or remote education, Mirada's experienced team will tailor a training package to suit your institution's needs and ensure all your staff members are comprehensively trained.

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"Mirada employees are very communicative and helpful, offering support via online meetings when necessary. During live visits, they dive into our clinical workflows to be able to adapt the software to our specific needs."

### Ellen Brunenberg

Department of Radiation Oncology, Radboudumc, Nijmegen,  
The Netherlands

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