cvi42® | Cardiac MR

cvi**42**'s Cardiac MR offering is a one stop shop for all your clinical CMR needs. Quantify cardiac function, flow and assess tissue abnormalities faster than ever before with AI-based contouring.

For more information, contact us at
sales@circlecvi.com or click/scan the QR code

At the **Heart** of
IMAGING

circle
CARDIOVASCULAR
IMAGING

4 Clinical Areas and Multiple Modules

cvi42®

cvi42® PLATFORM

Magnetic Resonance (MR)
- Cardiac MR
- 4D Flow
- Strain
- Quantitative Perfusion

Computed Tomography (CT)
- Coronaries
- Plaque
- Ca Scoring
- Function
- Strain

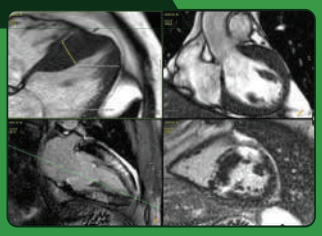
Interventional Planning (IP)
- Mitral Valve
- Aortic Valve
- Left Atrial Appendage

Electrophysiology (EP)
- ADAS 3D LV
- ADAS 3D LA

Automated with AI for an Integrated, Best-in-Class Solution.

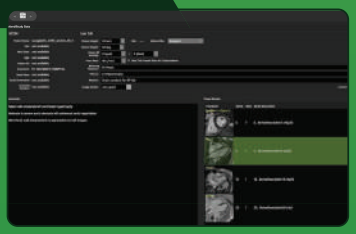
Powerful and fully HIS-enabled to streamline cardiovascular reading and reporting.

VIEWER



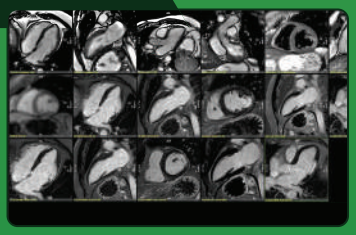
- Multiple image synchronization options
- Full complement measurement tools
- Compare baseline and follow-up scans

PATIENT DATA



- Review and edit study data
- Create and share comments for case review
- Fully embedded in HIS

SERIES OVERVIEW



- Quick overview of complete study
- Filter series based on contours or orientations
- Series composer to combine or rearrange series

REPORT

- Auto-populating report
- Automated reference values
- Drag and drop images
- Multiple export formats
- DICOM SR support
- HL7 compatible†

†New license required.

Web Viewer

A new web-based, easy-to-use viewing platform for improved collaboration across your health care team.

VIEW IMAGES & PRE-POPULATED REPORT

- Apply study tags to organize your cases
- Smart CMR viewing with series classification and automated view settings
- Edit and finalize MR reports on the go
- Access pre-processed MR SAX function results
- Check 2D Flow, Tissue, and LGE contours from pre-analyzed workspaces

ADD / EDIT MEASUREMENTS

- Modify function SAX contours and update corresponding results directly within the report, all from your web browser
- Add basic measurements (Line, ROI, Arrow) within the Web Viewer interface and transfer measurement data to the report

REVIEW REPORT

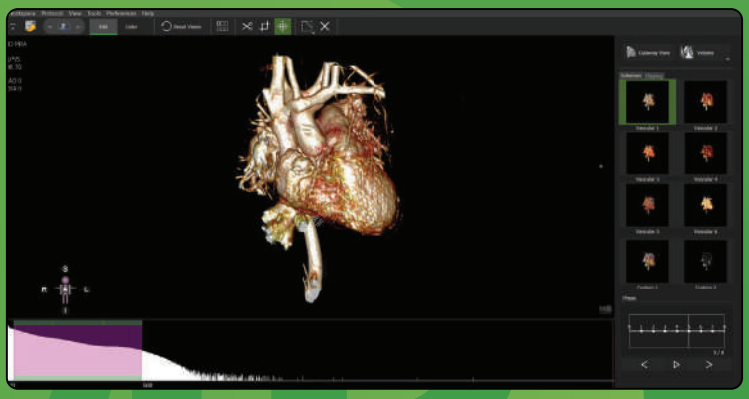
- Review finalized report and images from your web browser with colleagues or referring physicians
- Show patients their images in the exam room

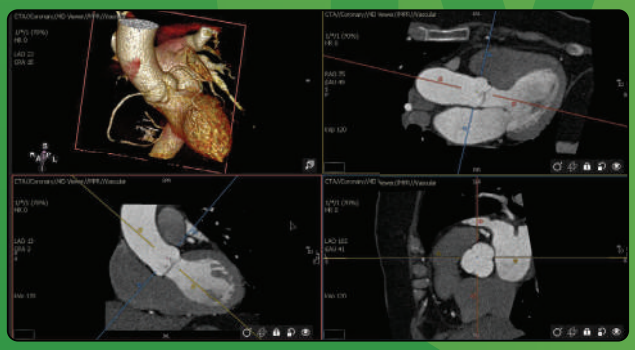
Anatomy

Assess complex cardiovascular morphology in 2D/3D with diverse measurement tools.

4D VIEWER

- 3D/4D data display
- DVR, Angio and MIP renderings
- Semi-automated segmentation and calculations



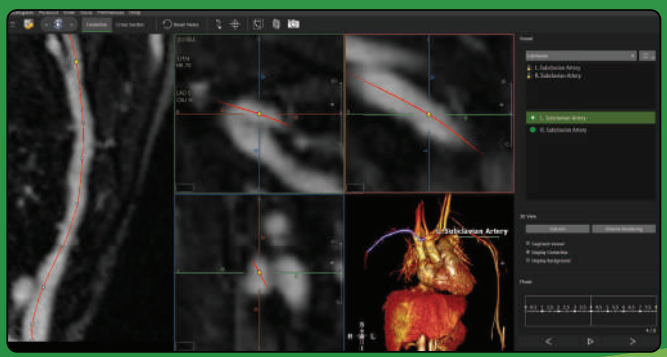


MPR

- Full complement measurement tools
- Predefined, customizable worklists
- 3D/4D volume rendering
- Vessel surfing

VASCULAR

- Vessel lumen and stenosis measurements
- Semi-automated vessel segmentation and centerline extraction
- Volume and MIP renderings



MR **Magnetic** Resonance

cvi42®

Comprehensive, fast, accurate reading and reporting for cardiac MR.

Function

Detect wall motion abnormalities, stroke volume, ejection fraction, volumes and masses.

SHORT AXIS

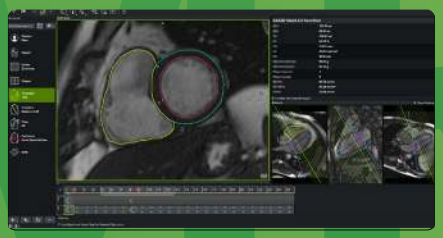
- Full ventricular with server-side processing
- Automated AI-based ventricular contour detection
- Polar map display for LV wall thickening and motion

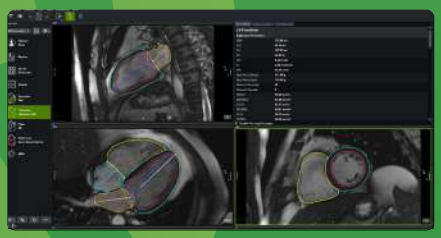
MULTIPLE LONG AXIS

- Quick and highly reproducible LV assessment
- Semi-automated contour detection
- Dynamic assessment of atrioventricular junction

LONG AXIS

- Fully automated AI-based LV and LA/RA assessment
- Automated ventricular contour detection
- Automatically calculated long axis strain values





Flow

Quantify flow, automatically calculate Qp:Qs and correct for aliasing.

2D FLOW

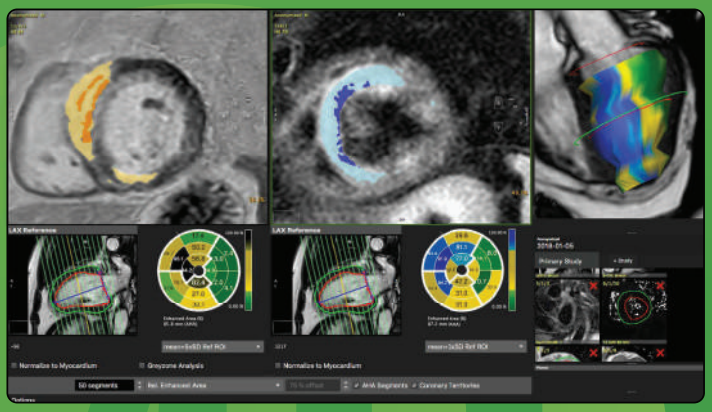
- Full flow analysis for volumes with server-side processing
- Automated AI-based aortic and pulmonary contour detection
- Offset correction and antialiasing
- Flow comparisons and Qp:Qs

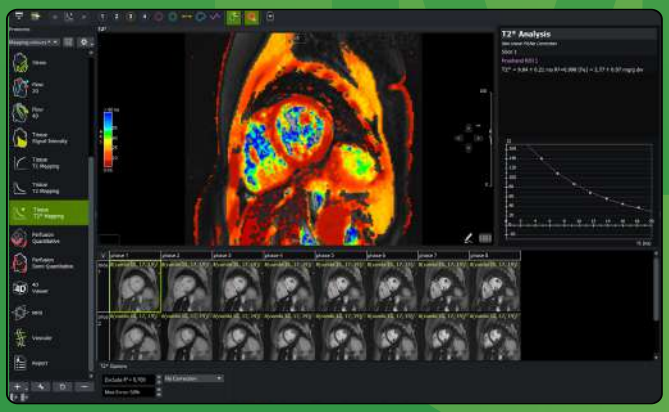
Tissue

Assessment of myocardial scar, edema, MVO, ECV and iron concentration.

Signal Intensity†

- Analysis of early and late enhancement and T2 weighted images
- AI-based contour detection
- Semi-automated regional scar, global scar, edema and MVO analysis
- Derive and synchronize contours between series
- Multiple algorithm options for quantifying scar pattern presentations



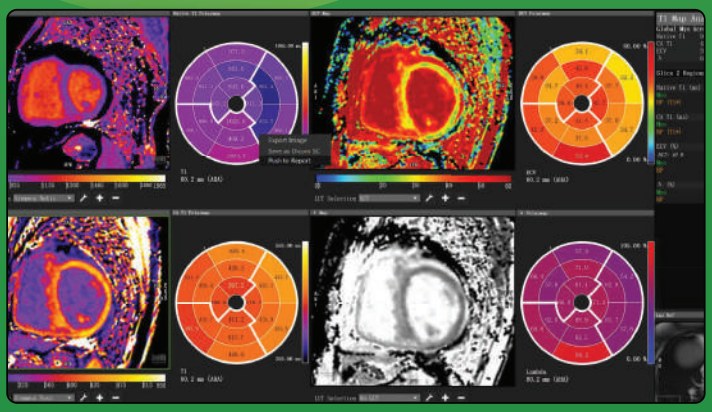


T2* MAPPING

- Global and regional T2* analysis
- T2* color overlay
- Global and regional iron quantification for 1.5T sequences

T1†& T2 MAPPING

- Global and regional T1 & T2 analysis
- Automated image loading and AI-based contour detection in T1 and T2 maps
- Motion correction
- T1, T2 and ECV map generation with customizable color charts



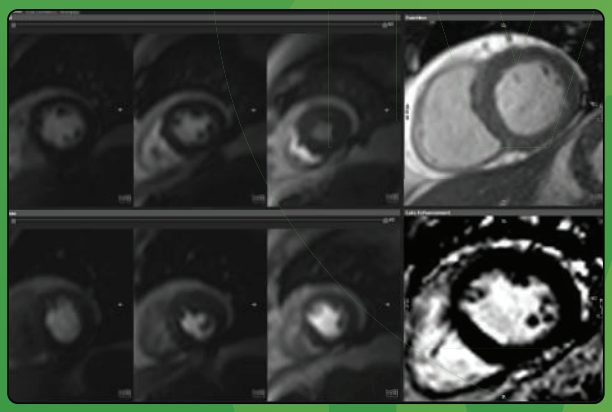
†T1 Mapping and Signal Intensity analysis involving images acquired with contrast agents is only available for non-clinical use in USA.

Perfusion†

Detect myocardial blood flow perfusion defects to assess ischemic Heart Disease.

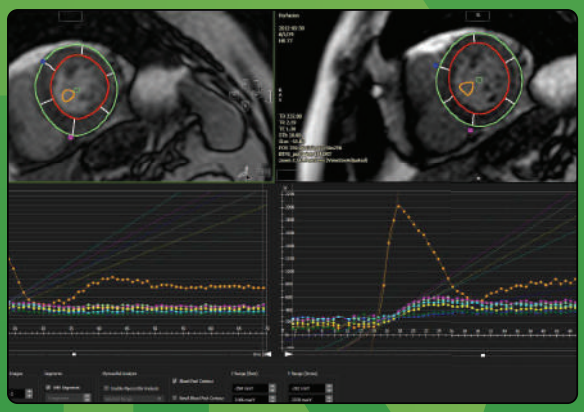
QUALITATIVE ANALYSIS

- Simple viewing for visual analysis of rest and stress perfusion images next to scar and wall motion series



SEMI-QUANTITATIVE PERFUSION

- Polar map and curve display of perfusion parameter including MPR



†Perfusion involving images acquired with contrast agents is only available for non-clinical use in USA.

Continuous innovation for efficient, accurate and optimized workflows based on user experience

www.circlecvi.com Circle Cardiovascular Imaging @circlecvi

Brief Summary: Indications, contraindications warnings and precautions can be found in the product labelling.

Disclaimer: Not all modules or features are available in every region. Contact your local Circle representative for all regional availability.

CAUTION: Federal law (USA) restricts these devices for sale by, or on the order of a physician.
The system is intended for use only by trained Healthcare Professionals.

circle CARDIOVASCULAR IMAGING

*cvi**42**.MRB.v6.3.07.25.r.1*