

PRODUCT DATA SHEET



CSR basic V1.6 2021-02

1. PROGRAM DESCRIPTION

The **CardioShowroom (CSR) basic** by CARDIOLECTRA is an interactive, intuitively operable 3D representation of a heart which can be rotated, cut open, made transparent or zoomed in on. Interactive animations illustrate the anatomy and the functions of a healthy heart. One click opens the heart, making the blood vessels, valve structure and excitation conduction system become visible. The program uses comprehensible texts and allows the user to experience thoroughly the anatomy and functions of a healthy in 3D.

The CSR is not subject to the medical device definition. In particular, the CSR does not have the intended purpose of diagnosing, preventing, monitoring, predicting, prognosticating, treating or alleviating disease (cf. Art. 2 (1) of the EU Medical Devices Regulation).

2. PROGRAM CONTENT

1. Anatomy

- Chambers
Right and left atrium/right and left ventricle
- Coronary vessels
Left main coronary artery/left anterior descending artery/circumflex artery/right coronary artery/coronary sinus/great cardiac vein/middle cardiac vein/small cardiac vein
- Cardiac conduction system
Sinus node/intermodal conduction tracts/atrioventricular node/bundle of His/Tawara branches
- Valves
Aortic valves/mitral valves/pulmonary valve/tricuspid valve

2. Functions

- Blood circulation/Circulation coronary arteries/Excitation process/Pump function/Function of the valves

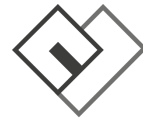
3. PROGRAM LANGUAGES

The CSR is multilingual and available in four languages: German/English/Spanish/Dutch

4. PROGRAM TECHNICAL SPECIFICATIONS

1. Program layout

- Intuitive, self-explanatory menu selection
- Layout and content presentation are concise: display options are presented on the top left, content options on the top right
- Information is comprehensive: cardiac diseases and therapy options are included in display options menu
- Program speed can be immediately adjusted to patients' requirements and mental abilities by pausing, forwarding/rewinding, repeating or adjusting the flow of the program
- Cogwheel on the bottom right for settings



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CSR basic V1.6 10_2020

2. Hardware requirements

- PC or PC Notebook: min. Windows 10/Minimum of 4GB RAM
- Graphics card: HD Graphics 620 or comparable
- Monitor: Full HD or more
- Apple: min. Notebook MacBook Pro, all configurations
- MacBook or Mac Book Air graphics cards are not sufficient for quality 3D

3. Operating systems/mobile and stationary devices

- Multitouch Displays 32" to 55"
- Microsoft Surface Pro
- Hewlett Packard Spectre
- Apple iPads
- VR-& AR Glasses

5. DATA SECURITY

1. Software basis

- CSR is an individually developed software based on Unity 3D platform; CSR is NOT a standard off the shelf software
- CSR is virus checked, storage and usage of CSR on the computer do not require any special anti-virus-protection
- CSR communicates via an individually developed license software

2. Data inquiry

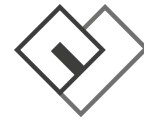
- The following data is inquired while download or at every start of the program: license key, operation system type and CSR version via internet.

3. Data security

- The data transfer is AES encrypted
- CSR has no personal information locally stored except from the license key mentioned above; CSR does not handle any patient data at all at any point

For further questions please e-mail to contact@cardiolectra.com
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PRODUCT DATA SHEET



CSR pro V1.6 2021-02

1. PROGRAM DESCRIPTION

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3. Disease and treatment

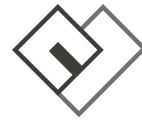
- Coronary heart disease
Simple Stenosis/Prophylaxis/Unstable angina pectoris/Heart attack
- Cardiac arrhythmias
Bradycardia/Tachycardia
- Structural heart diseases
Valvular heart disease/Aortic Valve Stenosis/ Tavi/
Mitral Insufficiency/Mitraclip
- Heart failure
Left-sided heart failure/Prophylaxis/Global Heart Failure

4. Treatment risks

- Pericardial Tamponade/Pericardial Drainage

3. PROGRAM LANGUAGES

The CSR is multilingual and available in four languages: German/English/Spanish/Dutch



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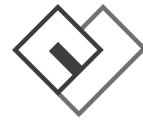
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PRODUCT DATA SHEET



CSR VR 1.0 2021-02

1. PROGRAM DESCRIPTION

The CardioShowroom (CSR) VR by CARDIOLECTRA is an interactive, intuitively operable 3D representation of a heart which can be rotated, cut open, made transparent or zoomed in on. Interactive animations illustrate the anatomy and the functions of a healthy heart. One click opens the heart, making the blood vessels, valve structure and excitation conduction system become visible. The program uses comprehensible texts and allows the user to experience thoroughly the anatomy and functions of a healthy in 3D.

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2. Functions

- Blood circulation/Circulation coronary arteries/Excitation process/Pump function/Function of the valves

3. Disease and treatment

- Coronary heart disease
Simple Stenosis/Prophylaxis/Unstable angina pectoris/Heart attack
- Cardiac arrhythmias
Bradycardia/Tachycardia
- Structural heart diseases
Valvular heart disease/Aortic Valve Stenosis Tavi)/
Mitral Insufficiency/Mitraclip
- Heart failure
Left-sided heart failure/Prophylaxis/Global Heart Failure

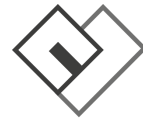
4.

Treatment risks

- Pericardial Tamponade/Pericardial Drainage

3. PROGRAM LANGUAGES

The CSR VR is multilingual and available in two languages: German/English



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CSR VR 1.0 2021-02

4. PROGRAM TECHNICAL SPECIFICATIONS

1. Program layout

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6. VR SYSTEM DESCRIPTION

The CardioShowroom VR is a sophisticated VR use. Cardiolectra uses for the VR version of the CardioShowroom an easy-to-implement VR system which offers the most comprehensive features, high fidelity, clear sound, and a highly immersive VR experience. The included base stations support up to 5m x 5m.



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CSR VR 1.0 2021-02

7. VR SYSTEM COMPONENTS

The System contains

- Basis Station
- Headset
- Link Box
- Controller
- Cords (DisplayPort™ cord, USB 3.0 cord)
- Power adapter
- VR glasses
- Wireless mouse
- Wireless keyboard
- 24-inch PC-monitor

8. VR SYSTEM REQUIREMENTS AND OPERATING SYSTEMS FOR

Components	Recommended system requirements	Minimum system requirements
processor	Intel Core i5-4590/AMD FX 8350 or higher	Intel Core i5-4590/AMD FX 8350 or higher
GPU	NVIDIA GeForce GTX 1070/Quadro P5000 or higher AMD Radeon Vega 56 or higher	NVIDIA GeForce GTX 970 AMD Radeon R9 290 or higher
RAM	4 GB RAM or more	4 GB RAM or more
Video output	DisplayPort 1.2 or higher	DisplayPort 1.2 or higher
USB Port	1x USB 3.0 or higher	1x USB 3.0 or higher
System software	Windows 10	Windows 7 SP1, Windows 8.1 or later, Windows 10

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