



# JCD-03K

## AI based Echocardiography Analysis Solution

### | Summary

If the ventricles or cardiovascular system does not operate properly, various heart diseases can occur. To prevent heart disease in advance, the hospital measures the status of the heart from echocardiography.

JCD-03K automatically segments the left ventricle from the echocardiogram and automatically calculates the Ejection Fraction based on the Modified Simpson Method to assist the physician in determining if cardiac dyskinesia is present.

### | Key Components & Performance

- Cardiac structure auto-detection and visualization
- Ultrasound motion tracking
- Ejection fraction calculation
- Visualization of patients clinical information
- Various image processing tool (zoom in and out, change of brightness and contrast)

### | Input / Output

- **Input Data**                      Patient's Echocardiography
- **Output Information**            Left ventricle area, Ejection fraction information