

## User Guide for SeleCT by VIDA

*For Hospitals and Users*

### Quick Overview

1. Make sure you are submitting a High Resolution CT Scan.

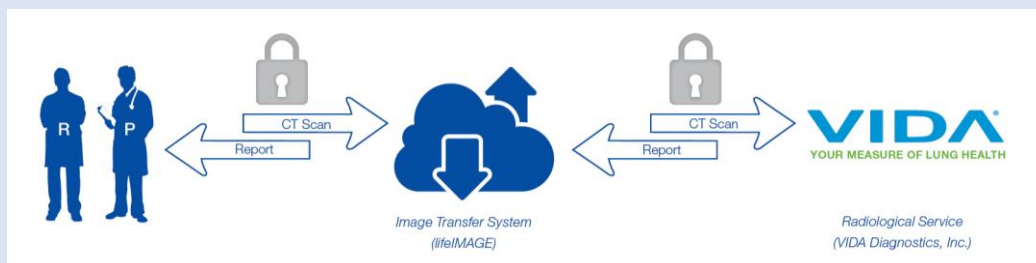
*Contact your Olympus representative for support or training on a suitable scanning protocol*

2. Log in to [cloud.lifeimage.com](https://cloud.lifeimage.com)

*Google Chrome browser is strongly recommended*

3. Click “Upload exams” to upload the CT Scan
4. Click the “Unique Scan ID” tab to create a unique ID for the CT Scan
5. Click the “Share” tab to share CT Scan with VIDA for analysis

Your SeleCT by VIDA Report will be ready within 4 business days as an attachment to the CT Scan within lifeIMAGE under “Documents”.



*If you have any questions, contact your Olympus representative or [ctsupport@spiration.com](mailto:ctsupport@spiration.com)*

## Table of Contents

<b>1</b>	<b>ESTABLISHING A HIGH RESOLUTION CT SCANNING PROTOCOL .....</b>	<b>3</b>
1.1	VIDA SCANNING PROTOCOL (FROM <i>CT-92000 (A) CLINICAL QCT PROTOCOL</i> ) .....	3
1.2	UNDERSTANDING CT SCANS AND DICOM .....	7
<b>2</b>	<b>INTERPRETING SELECT BY VIDA REPORTS .....</b>	<b>9</b>
2.1	SELECT QUALITY REPORT .....	9
2.2	SELECT QCT REPORT .....	10
<b>3</b>	<b>USING LIFEIMAGE TO UPLOAD CT SCANS AND DOWNLOAD SELECT REPORTS.....</b>	<b>11</b>
3.1	USING LIFEIMAGE FOR THE FIRST TIME.....	11
3.2	UPLOADING AND SHARING CT SCANS WITH VIDA FOR ANALYSIS .....	13
3.3	DOWNLOADING A SELECT REPORT .....	17

## 2 Interpreting SeleCT by VIDA Reports

### 2.1 SeleCT Quality Report

2.1.1 With each CT scan you submit, you will receive a SeleCT Quality Report detailing one of the following results:

Quality Check Result	Action to be taken
<p style="text-align: center;"><b>PASSED</b></p> <p>After careful review, the scan passes quality standards. The QCT analysis will be completed.</p>	<p><b>Quantitative measures will be delivered</b></p> <p><i>No further action to be taken</i></p>
<p style="text-align: center;"><b>PASSED</b> (with minor issues that may compromise accuracy)</p> <p>After careful review, the scan passes quality standards with minor issues. The QCT analysis will be completed.</p>	<p><b>Quantitative measures will be delivered, but accuracy may be compromised.</b></p>
<p style="text-align: center;"><b>PASSED</b> (some issues should be reconstructed)</p> <p>After careful review, the scan passes quality standards. However, a higher quality analysis could be obtained by reconstructing and resubmitting.</p>	<p>Read the Quality Report carefully and consider adjusting the scanning protocol on future CT scans for higher quality results.</p>
<p style="text-align: center;"><b>NOT PASSED</b></p> <p>After careful review, the scan does NOT pass quality standards. <b>Please reconstruct and re-send to VIDA</b></p>	<p><b>Quantitative measures will <u>not</u> be delivered, as the CT scan is not of sufficient quality.</b></p>
<p style="text-align: center;"><b>NOT PASSED</b></p> <p>After careful review, the scan does NOT pass quality standards and will not be analyzed.</p>	<p>Read the Quality Report carefully and correct the scanning protocol on future CT scans.</p>

- 2.1.1 The SeleCT Quality Report will have additional detail specifying which parameters did not meeting the recommended protocol, and how this may impact the quantitative measures.
- 2.1.2 Be sure to read the quality reports carefully, and share them with your radiologist so that future scans may be further refined to ensure high quality results.
- 2.1.3 If you have further questions about any of the quality results, contact VIDA at [support@vidadiagnostics.com](mailto:support@vidadiagnostics.com).

## 2.2 SeleCT QCT Report

- 2.2.1 For those CT scans that pass the quality check, a SeleCT QCT (Quantitative CT) Report will follow within four business days of submitting the CT scan.
- 2.2.2 The SeleCT QCT Report will have the following identifying information on it:
  - Unique Scan ID (as created when submitting the scan)
  - Patient ID (as it appears on the DICOM)
  - Report Date

*Note: No other identifying information appears on the SeleCT QCT Report.*

- 2.2.3 The SeleCT QCT Report will have the following information for each lobe:
  - Lobar Volume (cc)
  - LAA%, as a marker of emphysema severity, at -910HU, -920HU, and -950HU
  - Heterogeneity, computed as the difference in LAA% between the chosen lobe and the ipsilateral lobe (excluding the RML), at -910HU, -920HU, and -950HU
  - Fissure Integrity (%). For the left lung, it is computed as the percent completeness of the left oblique fissure. For the right lung, it is defined by the combination of fissure surfaces bordering a given lobe.
  - Visual representation of Low Attenuation Clusters (LAC), as a marker of emphysema severity
  - 3D visual representation of Fissure Integrity, highlighting incomplete and complete sections of each fissure