**Technical Documentation**

**Review and Approval By**

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**Revision History**

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| --- | --- | --- |
| **Revision Level** | **DCR#** | **Effective Date** |
| A0 |  | XXX |

# **Purpose**

The purpose of this document is to provide detailed information on the assessment and interpretation of Whole Slide Image (WSI) quality.

# **Scope**

The scope of this document extends to quality control (QC) of the WSI images obtained as an output from SpectralHT.

# **Definitions/Abbreviations**

# 

|  |  |
| --- | --- |
| **Term/Abbreviations** | **Definition/Full Form** |
|  |  |

# **Introduction**

*Provide a description of the importance of quality control in WSI. Brief of how we are attaining the quality control.*

# **Description**

*Provide a list and description of all the quality control tools involved along with their functions*

|  |  |  |
| --- | --- | --- |
| **QC Tool** | **Description** | **Function** |
| *<Name of tool>* | *<Provide a brief description of the tool. E.g The focus score is a normalized measure of the*  *intensity variance within an image>* | *<Define the function. Eg stitching error matrix detects the error percentage and areas of defect >* |
|  |  |  |
|  |  |  |

# **Scope of Quality Control Tools**

*Define the scope of all the QC tools*

|  |  |
| --- | --- |
| ***QC Tool*** | ***Scope*** |
| *<Name of tool>* | *<The applicable areas>* |
|  |  |

# **Principle of Action**

*Describe in brief how all the tools work together/in sequence to provide the quality control. Provide a brief of how the input image is translated into a set of quality plots/matrices.E.g how one matrix identifies a defect and how it is carried forward as an input to the next matrix etc*

# **Workflow**

*Provide the detailed workflow for all the QC tools. List out the tools in the sequence of their operation,if any*

* 1. **QC Tool** *<Insert the Name of the QC Tool>*

**8.1.1 Flow Chart**

*Provide a process flow chart*

**8.1.2 Input**

*Provide the input and related specifications*

**8.1.3 Method**

*Describe the method employed. Describe in detail all the steps involved, logics,calculations to arrive on the matrix etc*

**8.1.4 Decision Chart**

*Provide the decision chart*

**8.1.5 Dependencies**

*Provide any dependencies.e.g libraries*

**8.1.6 Test Data and Environment**

*Provide the test data used to arrive and validate the conclusions. Describe the test environment e.g software tools, platform etc*

**8.1.7 Output**

*Provide the output and related specifications*

**8.1.8 Known Anomalies**

*Provide the list of known issues, conditions where the tool might fail etc*

* 1. **QC Tool** *<Insert the Name of the QC Tool>*

# **Interpretation**

*Describe how the output of each QC tool shall be interpreted to make a decision about the quality of the WSI.*

* 1. *<Insert the Name of the QC Tool>*

*Provide description*

* 1. *<Insert the Name of the QC Tool>*

*Provide description*