Aimag QC

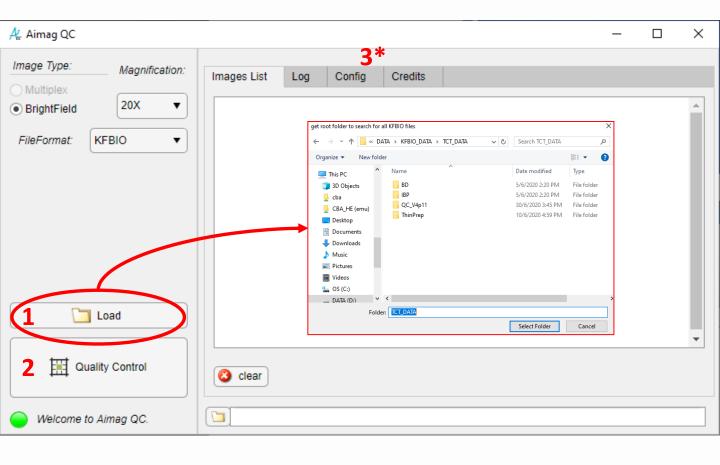
Digital Histopathology Images Quality Control. A!maginostic Pte. Ltd. All Rights Reserved, 2020.



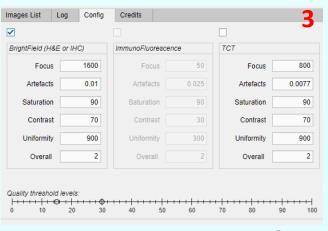
I. Quick Start

II. Outputs

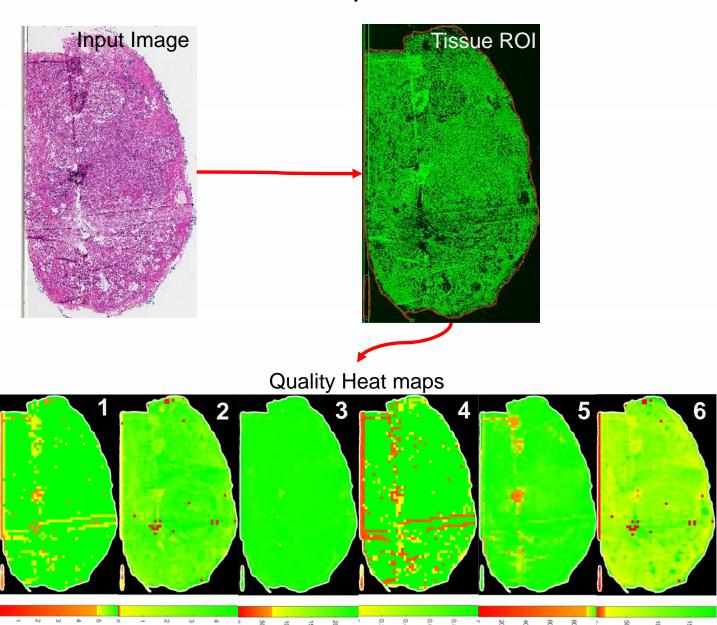
Quick Start



- Press Load and Select a Root Folder Containing a List of Images or a List of Subfolders with Images. (Detects all ".kfb" files in folder and subfolders.)
- Press Quality Control button to Start the Quality Assessment of all Files in Images List Listbox.
- 3. Select BrightField or TCT



Outputs



Visual representation of the Quality Assessment of the image Texture, Contrast, Artefacts, Saturation and Focus (2-6).

The QC measurement (1) is a linear combination of the 5 aforementioned image properties.

Output

Summary of quality measurements

6 987682592

100 4039872

	B1_3_2020-02-18_11_18_0:		BIC_HE_20X_20200218_KFB	BrightField	20X	0	14.24845758	0.089016437	60.20747649	0.547713779	2.540198988	108.3279408	8 18.93868046	134.1887 Valid
13	B1_4_2020-02-18_11_16_5					9.079850302		0	22.46896846	0.150135377	2.401594281	103.7865171		243.11392 Valid
14	demo1	KF'				1.803199221		0.162054296		1.803199221	2.127307813	105.2119179		617.07713 Valid
	demo2	KF'	FB_FORMAT_TEST	BrightField	40X	6.887583851	0.285193901	0.998178652	25.23695656	6.887583851	6.887583851	101.9538917	7 71.97334835	701.27727 Valid
16	demo3	KF'	FB_FORMAT_TEST	BrightField	40X	1.21184475	0	3.977138159	0	1.23539737	1.23539737	106.3264368	8 71.19486325	494.97677 Valid
							1							
Lc	ow_Focus Pct	Artifacts Pct	LowContr Pct	rast	Saturation Pct) High	Unifor Pct	mity	Global Quality		Tissue_/ Pct		Number of Tiles	Status
	3.35	12.25	0.12		2.70		1.38		4.5	i8	75.51	1	2770.42	Valid

Percentage of "Tiles" (256*256 contiguous blocks of the Tissue Region of Interest) Below Quality Threshold.

- Low Focus: % of tiles with a low focus
- Artifacts: % of tiles with Artefacts (dust, folding, cluster, ...)
- Low Contrast: % of tiles with a low contrast (faded staining, empty regions, ...)
- Saturation: % of tiles with saturated colors (strong stain, clusters, ...)
- Uniformity: % of tiles with a smooth Texture (faded stain, slight out of focus, ...)
- Global Low quality: Linear combination of 5 aforementioned measurements.
- Tissue Area: % of Image Area that contains Tissue.
- Number of Tiles: Weighted Number of Tiles with in Tissue Area. (Tiles on Tissue edges have less weights since cropped by Tissue Region boundary.)
- Status : Aimag QC estimated image Quality:
 - Valid: image can be used for diagnosis/ further processing
 - To Check: image may be used for diagnosis if reviewed by specialist
 - Rejected: image quality is too low for diagnosis/ further processing