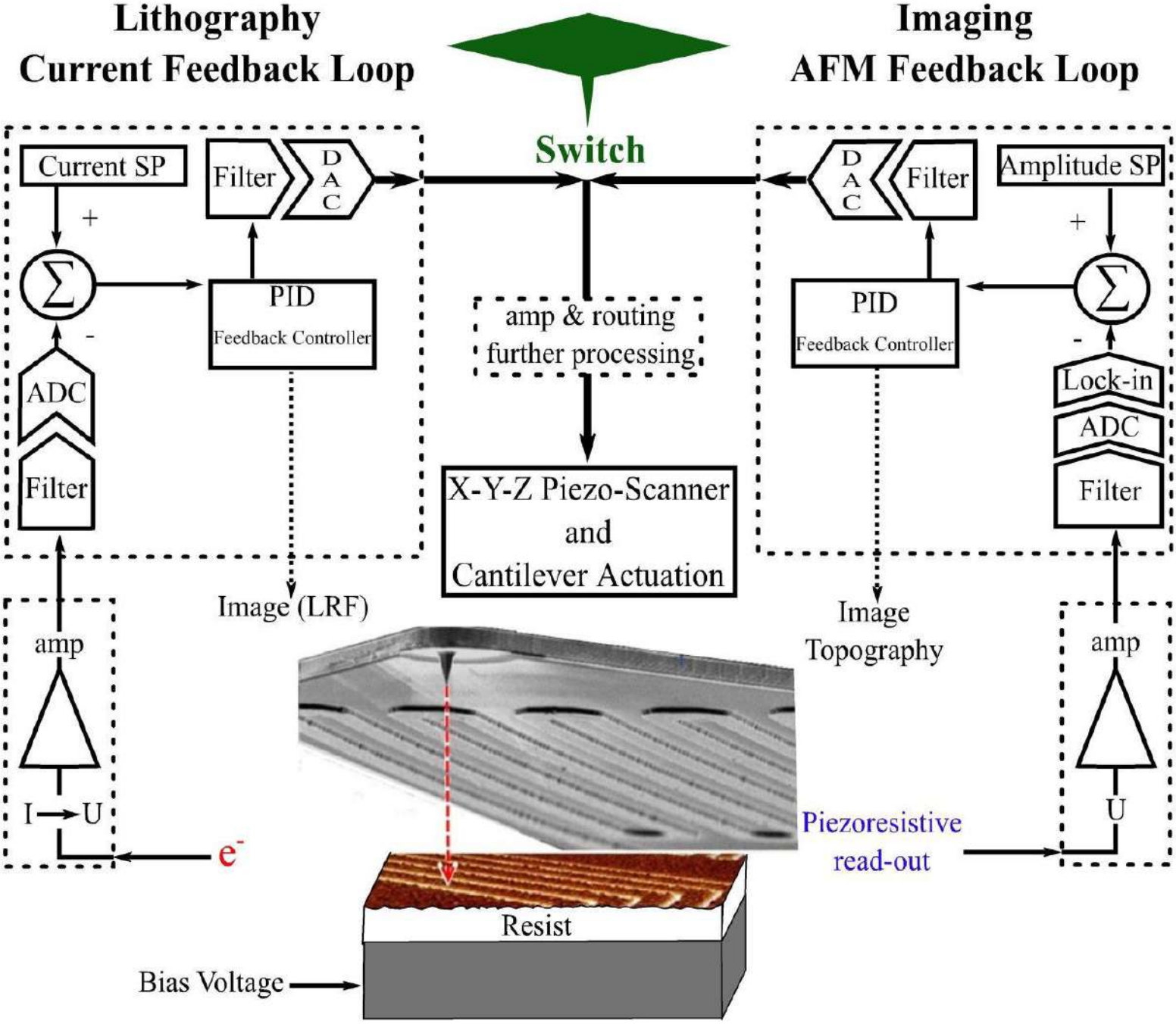
Lithography
Current Feedback Loop
Imaging
AFM Feedback Loop
Switch
Current SP
Filter
D
A
C
+
PID
Feedback Controller
-
ADC
Filter
amp & routing
further processing
X-Y-Z Piezo-Scanner
and
Cantilever Actuation
Image (LRF)
amp
I → U
e-
D
A
C
Filter
Amplitude SP
+
PID
Feedback Controller
-
Lock-in
ADC
Filter
Image
Topography
amp
U
Piezoresistive
read-out
Resist
Bias Voltage