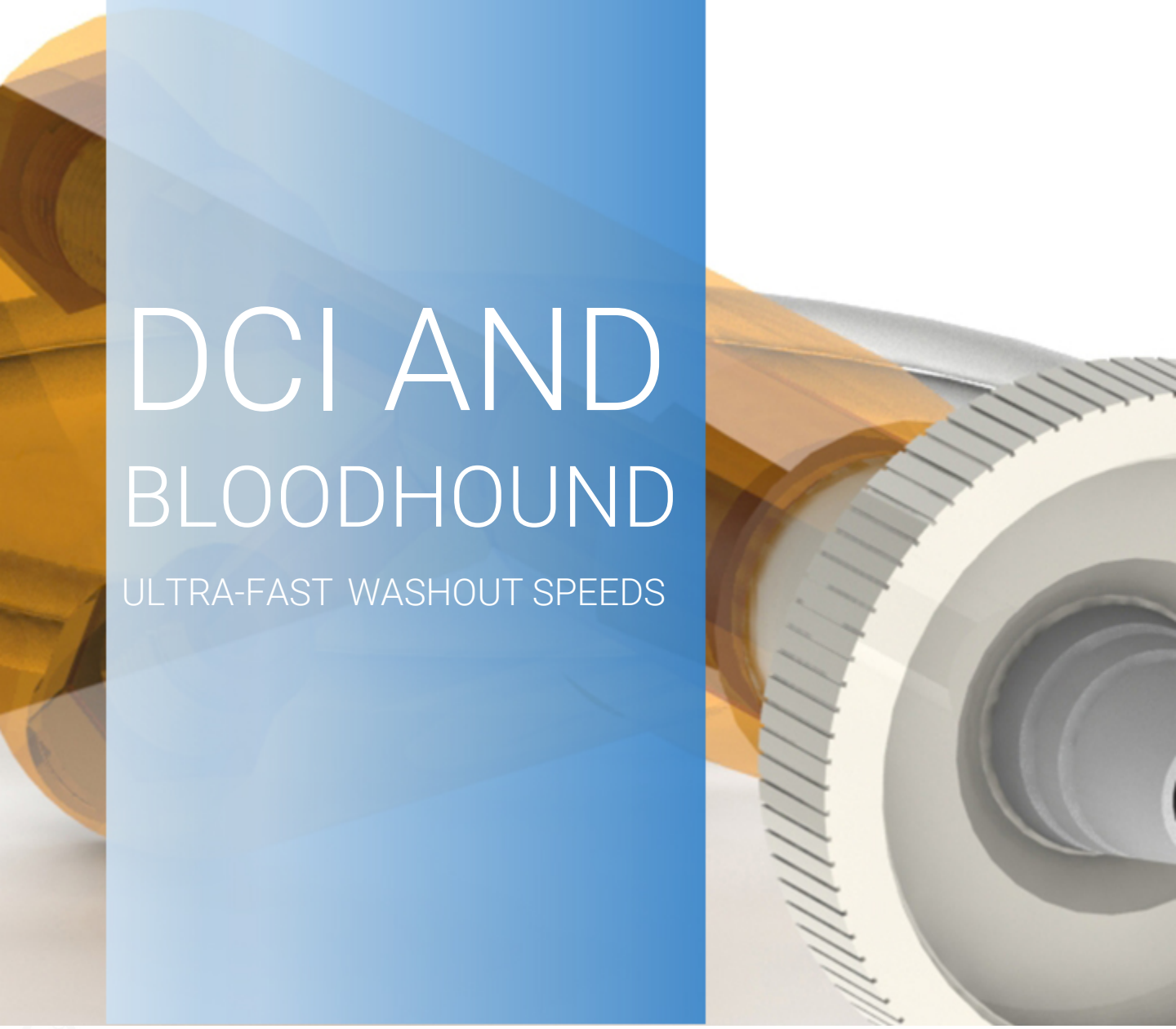
# DCI AND BLOODHOUND

## ULTRA-FAST WASHOUT SPEEDS



Performance enhancing upgrades for improved imaging analysis

## Concept

The Dual Concentric Injector (DCI) is a high-efficiency sample transport device designed to move particles from the ablation site directly to the tip of the ICP injector with low mixing, resulting in much faster washout times.

Bloodhound is a sample chamber modification that works with the DCI to further reduce washout times.

Overall, the DCI and Bloodhound can give up to a 100 fold improvement in washout speeds, allowing much faster scan rates and repetition rates to be used for much faster imaging.

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INNOVATION TO ILLUMINATE

# DCI and Bloodhound
## Specifications summary

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### Features

Dual concentric injector (DCI) reduces washout speeds by factor of up to 20

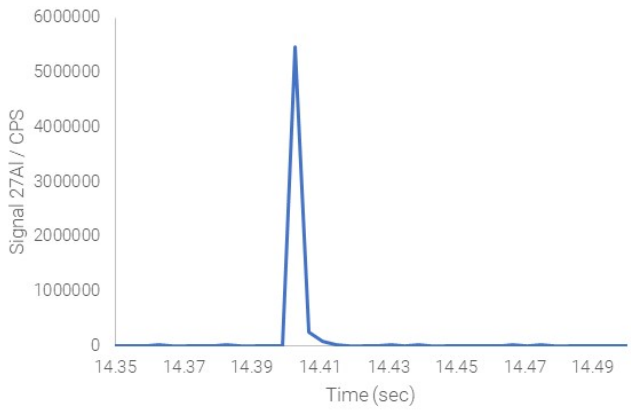
Bloodhound reduces washout by a further factor of 5

Improved spatial resolution in imaging experiments

Faster imaging speeds with less lateral "smearing"

Improved signal intensity

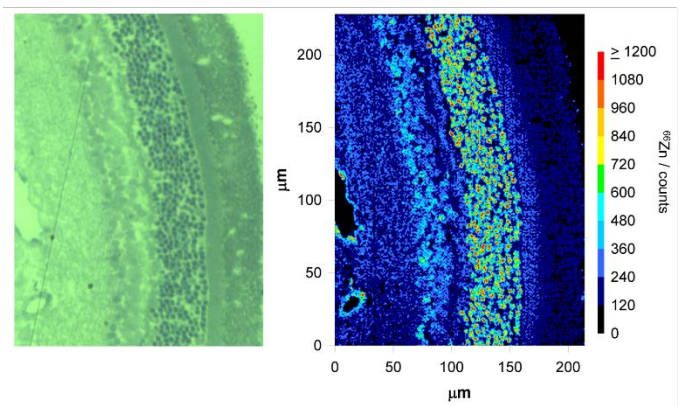
Patent pending




Ultra-fast transition of a single shot using DCI and Bloodhound

The DCI torch interface

| Performance Specifications | |
|---|---|
| DCI washout | 50 ms |
| Bloodhound washout | 10 ms |
| DCI fitting time | <5 minutes |
| **Compatibility** | |
| Platforms | NWR193, NWR213, NWRfemto, NWRimage |
| Sample chambers | TwoVol2 (100mm)<br>TwoVol2 (150mm) |
| **Additional Options** | |
| Signal Smoothers | Glass bulb signal smoother and Sentinel signal smoother |




Example of a high resolution, high speed image acquired using DCI and Bloodhound

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