MDR-R
MOM Resonant Scanner Controller

SUTTER INSTRUMENT

CAN EASILY BE ADDED TO EXISTING MOM® SYSTEMS

CAN BE USED AS A COMPONENT FOR CUSTOMERS BUILDING THEIR OWN SCOPE

COMPATIBLE WITH MSCAN, AS WELL AS MANY FREEWARE AND COMMERCIAL SOFTWARE PACKAGES

FULL FRAME SCANNING AT UP TO 30 FRAMES PER SECOND

WHISPER QUIET RESONANT SCANNER BOX

FLEXIBLE HARDWARE WORKS WITH A VARIETY OF SYSTEMS

TURNKEY OR BUNDLED OPTIONS AVAILABLE

(Shown: RESSCAN–MOM)

RESSCAN SUTTER RESONANT SCAN BOX

The new **Sutter Resonant Scan Box (RESSCAN)** is a general purpose resonant scan box using the industry standard Cambridge Technologies CRS 8KHz resonant scanner for fast X scanning and a second Cambridge galvo scanner (6215 5mm) for Y axis scanning. The scan box is whisper quiet and the package allows full frame scanning at up to 30 frames per second (actual values are software dependent). Unlike other resonant systems designed to be used with proprietary hardware and/ or software, the Sutter resonant scan box and its connections to the outside world are intentionally generic.

Two versions of the scan box are currently available:
- **RESSCAN-MOM** - a version that fits in the standard scanner location in the MOM® and can be purchased either with a new MOM or used to field convert an existing MOM.
- **RESSCAN-GEN** - a generic version compatible with 60mm cage systems. This version of the resonant scan box was designed for the Janelia Farms MIMMs microscope, but will work with any scope with a scan pathway designed around a 60mm optical cage.

The resonant scan box controller (MDR-R) connects to and drives the resonant scan box and provides the exact inputs and outputs supplied by Cambridge Technologies scanner controller cards (SYNC and ZOOM for the CRS scanner and Position for the slow Y scanner). This is helpful for those who have existing software that runs with other microscopes using Cambridge Resonant scanners.

The Sutter resonant scanner system can be purchased in several configurations. Those who wish a ready to use, turnkey Resonant scanner system, complete with software, should purchase either RES-MOM-MCS or RES-GEN-MCS. If you wish to use your **RESSCAN** with ScanImage Premium, you should purchase either RES-MOM-SIP or RES-GEN-SIP.

Alternatively, you may wish to take advantage of the standard connections on the controller to use the Sutter scanner system with existing freeware. (Helioscan, MP Scope, or SI 5), third party commercial software (3I Slidebook) or software of your own design. Sutter carries stand-alone NI FLEX R10 data acquisition packages to use with SI 5.

RESSCAN BASIC SYSTEM

RESSCAN-MOM	Resonant Scanner for Sutter MOM – Stand Alone
RESSCAN-GEN	Resonant Scanner for 60mm cage based microscope – Stand Alone

MCS & MSCAN 2.0 BUNDLED VERSION

RES-MOM-MCS	Resonant Scanner for Sutter MOM – Bundle Version
RES-GEN-MCS	Resonant Scanner for 60mm cage based microscope – Bundle Version

SCANIMAGE PREMIUM BUNDLED VERSION[1]

RES-MOM-SIP	Resonant Scanner for Sutter MOM – ScanImage Premium Bundle Version
RES-GEN-SIP	Resonant Scanner for 60mm cage-based microscope – ScanImage Premium Bundle Version

1 Please note, ScanImage Premium Bundles are not turnkey packages. You will need to supply an appropriate computer with MATLAB® software installed. MATLAB® is a product of MathWorks.

CE   RoHS2 2011/65/EU

SUTTER INSTRUMENT®

MADE IN USA

09-2017