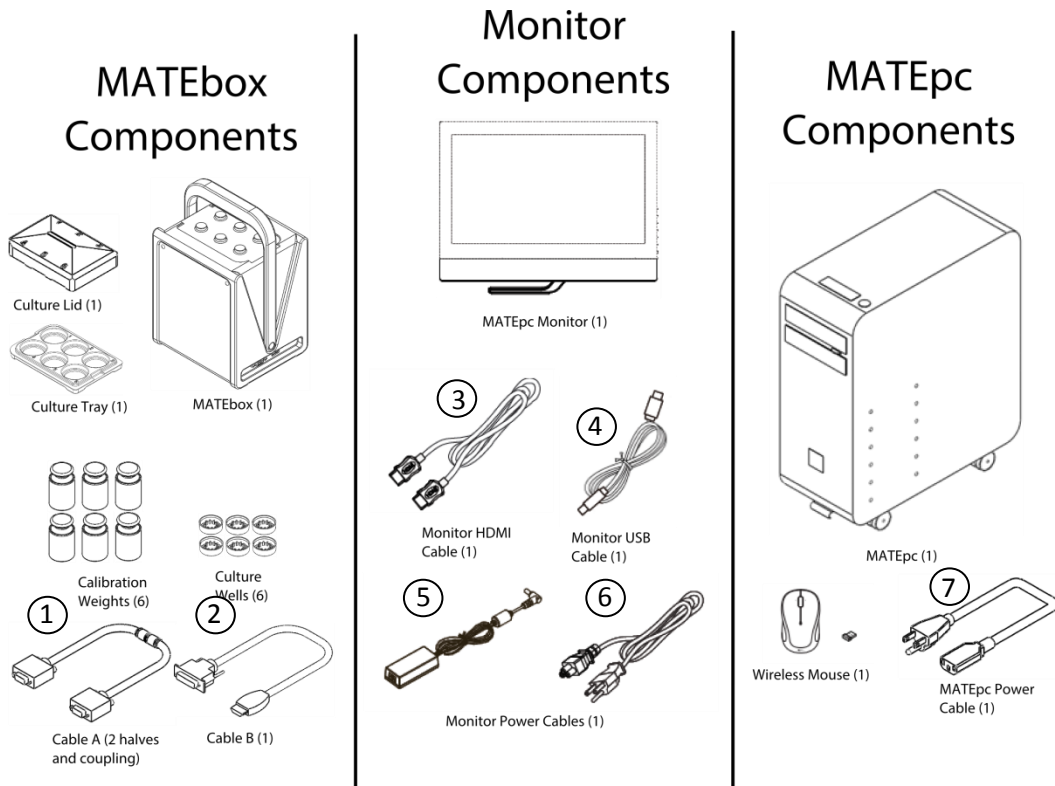
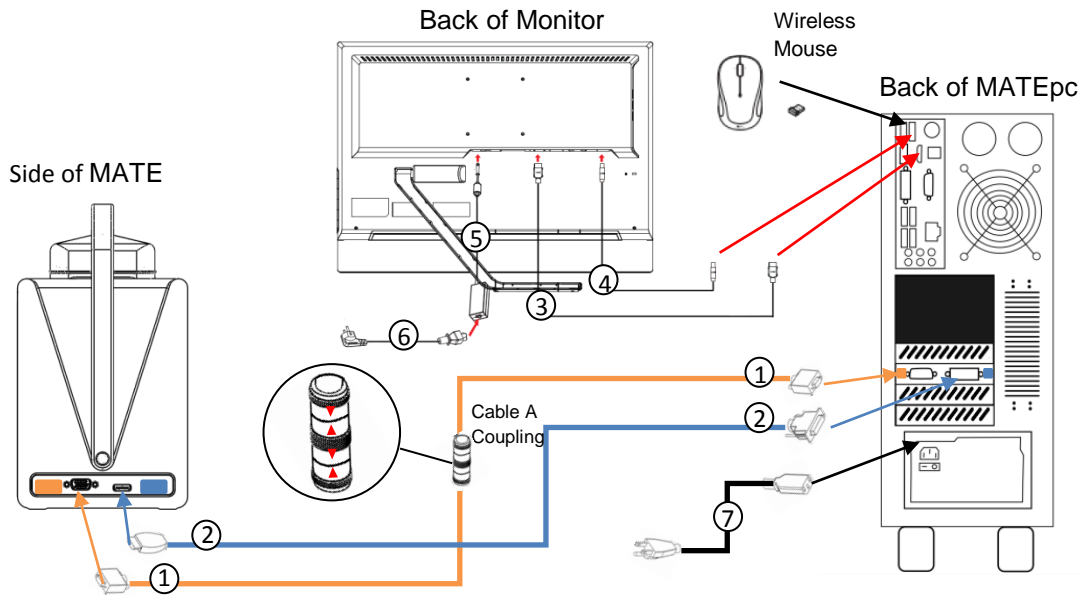


# MATE Quick Start Guide

## System Inventory:

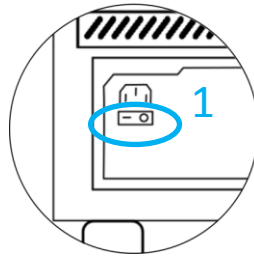


## System Set-up:

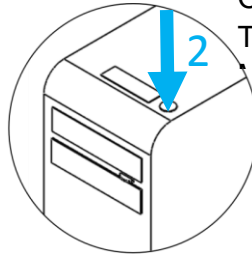


## Turn on MATEpc:

Power Switch  
Back of



On Button  
Top of



## MATEsoft:



MATEsoft Shortcut

## Getting Started:

**MATE System**  
Empower Your Research

MATE v2.0

MATE v2.0  
matesystems.com

| Task               | General   | Analyze   | Stimulate  | A & S Sequence   | Status                                    |
|--------------------|---|---|--|--|---|
| CREATE<br>new task | "Test 1"<br>A & S Sequence Task - Strain Mode (%)<br>7.0 mm Sample Diameter<br>10 % Safe Strain<br>Operator :<br>Description: | 2.0 % Pre-Strain<br>2.0 % Test Strain<br>2.0 %/sec Load Rate<br>10 sec Creep Time | 2.0 % Pre-Strain<br>2.0 % Strain Amplitude<br>2.00 Hz Frequency<br>200 Cycles Duration<br>0.3 Minimum Dyn. Ratio<br>Peak Strain Optimization | 10 Sequences / day<br>7 Days<br>0 min pause between Sequences<br>ANALYZE every 2 Sequences | "Test 1" Loaded.<br>Press Start to run... |

START

ABORT  
Task

**Getting Started** | Analyze | Stimulate | A & S Sequence | Calibration | Warning Log

Welcome to the MATE (Mechano-Active Tissue Engineering) system. Your MATE System is designed so support functional tissue engineering in vitro to empower your research.

**FUNCTIONALITY**  
The MATE system can perform three TASKS:  
1. ANALYZE mechanical properties of samples.  
2. STIMULATE samples by dynamic compression.  
3. A&S SEQUENCE: performs an analyze & stimulate sequence  
It has six independent test stations that can fit samples of up to 7 mm thickness and 17 mm diameter.  
It automatically measures the thickness of each sample to apply correct compression.  
It automatically measures the weight of each sample to apply correct loading.  
It can apply up to 10 N loading at frequencies up to 20 Hz.  
You can load samples in three loading modes: compression (%), force (N), or pressure (kPa).  
In any loading mode, you can specify a SAFE STRAIN (%) that protects samples from excessive compression.

**DIRECTIONS FOR USE**  
1. CREATE a new task, or LOAD or EDIT an existing task. A task can be ANALYZE, STIMULATE or an A & S SEQUENCE.  
2. Verify all required parameters, including sample diameter, safe strain limit, and loading parameters.  
3. Press the Start button

**MATE**  
Mechano-Active Tissue Engineering  
matesystems.com

For Detailed information visit [matesystems.com](http://matesystems.com) or consult MATE 3.0 User Manual.