

Real-time Super-resolution, Deconvolution and TIRF Optical System for Bio. Application

1. Real-time Super-resolution, Deconvolution and TIRF Optical System all in one system.

- ✓ Cost effective
- ✓ Expansion and compatibility in various fields
- ✓ multi-channel(wavelength coordinate), multi-frame(time coordinate), multi-slice (Z coordinate), multi-position (XY coordinate), or any combination of these.

2. Real-time Super-resolution System, *SRRF-Stream*

- ✓ Real Time : enhanced workflow, avoids post-processing. View in 'Live Mode'.
- ✓ Low Excitation Intensities (mW-W/cm²) : prolonged live cell observations and accurate physiology.
- ✓ Conventional Fluorophores : e.g. GFP – simple labelling, no photo-switching required.
- ✓ Live Cell Dynamics : full FOV super-res images every 1-2 secs. > 10 fps using ROI.
- ✓ Cost-Effective : convert conventional fluorescence microscopes to super-resolution microscopes.

3. Real-time Deconvolution System, *Micovolution*

- ✓ Nearly instantaneous deconvolution by combining intelligent software programming with the power of a GPU
- ✓ Speed : Deconvolve your fluorescence images, from small to very large, in a fraction of the time

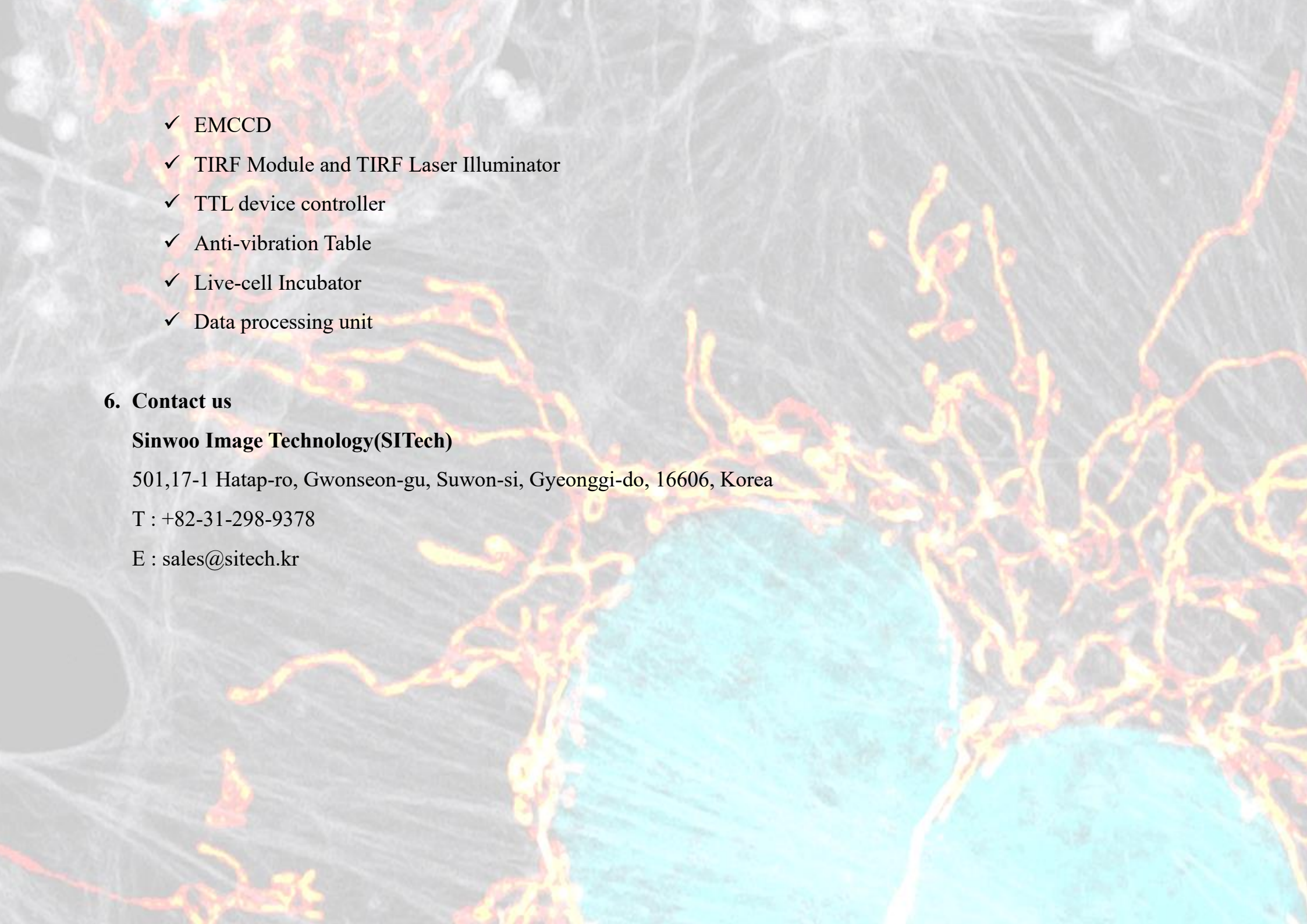
- 
- ✓ Accuracy : Thin Filaments Are Preserved with Microvolution Software
 - ✓ Clarity : Increased resolution

4. TIRF Module and TIRF Laser System

- ✓ Multi line laser
- ✓ Direct intensity modulation capability
- ✓ Combine up to 4 laser lines
- ✓ Manual TIRF Module

5. Components

- ✓ Microscope body
- ✓ Standard Optical Lenses
 - 10X/0.3, WD 16
 - 60X/1.49 Oil, WD 0.16 – 0.07
 - 100X/1.49 Oil, WD 0.16 – 0.09
- ✓ Motorized Epi-FL Filter Cube Turret
- ✓ High Power Illuminator for Fluorescence
- ✓ Fluorescence Filter Set
- ✓ Motorized X-Y Stages and Z focus drive with joystick control

- 
- ✓ EMCCD
 - ✓ TIRF Module and TIRF Laser Illuminator
 - ✓ TTL device controller
 - ✓ Anti-vibration Table
 - ✓ Live-cell Incubator
 - ✓ Data processing unit

6. Contact us

Sinwoo Image Technology(SITech)

501,17-1 Hatap-ro, Gwonseon-gu, Suwon-si, Gyeonggi-do, 16606, Korea

T : +82-31-298-9378

E : sales@sitech.kr