Commodity Description

Item No.	HSK No.	Korean Government Commodity Classification Code(eight-digit)	Description	Unit	Q'ty
ELS72000			Live Cell Imaging System	System	1

Ⅰ. End-user's Use and Feature

1. This equipment requires no setup, no training, start instantly and uses a familiar PC interface without the need for AC power.
2. This equipment affordable enough to place at every lab bench, eliminating the inconveniences of shared microscopes.
3. It produces real-time fluorescence video, high-resolution images, and time-lapse capture; delivering research-grade quality for a fraction of the cost of traditional microscopes.
4. Compact enough to fit in an incubator or a tissue culture hood, portable enough to go into the field, and durable enough for student use.
5. This required maintaining image quality and reliability standards for a hot, humid and cash-poor environment.
6. It focuses instead on the use of solid-state technologies to provide powerful image resolution.
7. Software provides full color imaging for bright-field and phase contrast analysis, single-channel fluorescence and two more fluorescence channels.
8. It is available with a multitude of lensed objectives, including long working distance varieties for imaging through culture-ware.
9. This equipment available with a multitude of lensed objectives, including long working distance varieties for imaging through culture-ware.
10. It is used the LEDs light source that provide stable, bright illumination for thousands of hours, or a CMOS detector with excellent signal to noise ratios.

Ⅱ. Configurations of Goods

1. Main body 1SET

Ⅲ. Performance and Specification

1. Optics : Blue, green & red fluorescence; brightfield
2. Phase Contrast : Phase contrast
3. Objective Compatibilities : RMS-threaded, infinity corrected, 45 mm parfocal distance
4. Light Source : LEDs
5. Fluorescence Filters : Blue / Excitation 370 - 410 nm, Emission 429 - 462 nm
   Green / Excitation 473 - 491 nm, Emission 502 - 561 nm
   Red / Excitation 580 - 598 nm, Emission 612 - 680 nm
6. Camera : High Sensitivity Monochrome CMOS Sensor; 5 megapixel, C-mount

7. Image Formats : JPG, BMP, TIF, or PNG
8. Field of View : Up to 0.78 x 0.78 mm with 20x objective
9. Video Rates : Up to 10 frames per second (fps); up to 30 fps with reduced frame size
10. Automated XY Stage : SBS nest, 6-to 1536-well microplates
    microfluidic chambers (contract Etaluma)
11. XY speed (seconds) : Image 96 wells / a) 1 color focus & image : 13min
    b) 3 color focus & image : 34min
12. Power Requirements : USB for Lumascope; 100-240 V, 50-60 Hz for autostage
13. Dimensions : 37.4 cm W x 43.8 cm D x 46.8 cm H (incl. phase)
    [14.7 in W x 17.3 in D x 18.4 in H]
14. Weight : 13 kg (29lb) without phase accessory; 14 kg (31 lb) with phase accessory
15. Operating Conditions : 0℃ - 42℃, 5% - 95% RH non-condensing

IV. Remarks

1. Supervision of installation, commissioning and on-site training should be performed by qualified engineer with free of charge.
2. Warranty : One year warranty after the performance test.