

Versatile, High-Performance, Turn-key

## Hyperspectral Scanning Solution



ClydeHSI Translation Series Hyperspectral Scanning Solutions are complete turnkey hyperspectral solutions that include: spectral camera(s), scanning stage, lighting system, built-in focus target and reflectance standard, as well as data acquisition, viewing and analysis software.

ClydeHSI Translation Series systems are available in several scanning size options from A5 to A1 equivalent areas, are quick and easy to set up on standard tables, and can acquire high resolution spectral images in seconds. The system can operate up to two spectral cameras simultaneously, and is fully compatible with all ClydeHSI hyperspectral cameras and configurations.

Other key features: auto-focus and auto-product height adjustment, fully integrated lighting stage with auto-exposure calculation.

### Key Features:

**A5 to A1 Sizes Available**

**Integrated White Tile and Focus Chart**

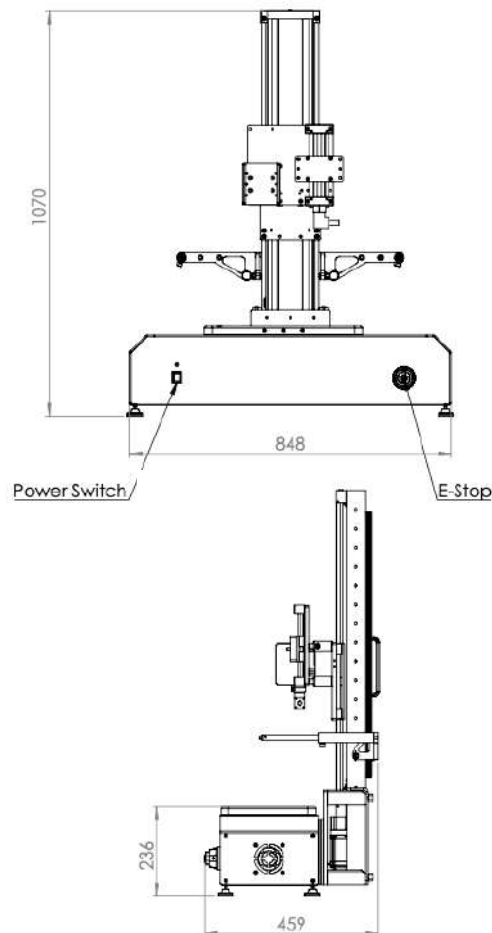
**Auto-focus of Spectral Cameras**

**Auto-exposure Setting**

**Auto-square-pixel Facility**

**Simultaneous Dual Camera  
Acquisition**

**Integrated Illumination System**



## Scanning Stage Technical Specifications

Parameter	Value	Units	Comment
Spectral Range	400-2500	nm	Raman options available: consult ClydeHSI
Scanning Area	A5, A4, A3, A2, A1 options		
Scan Speed	0.2 to 300	mm/s	Automatically synchronised with camera frame rate by software
Camera Stand-off Distance	Up to 1400 for A1 scanner	mm	Fully motorised adjustment via software
White Tile and Focus Grid	Reference position for white tile and focus chart		For automatic exposure time calculation, reflectance corrections, and focussing of spectral cameras
Power	90-260 50/60	V AC Hz	Automatic, universal voltage input. System supplies cameras, lighting, and stage.



### Example System Configuration

Comprising of the following:

- SC-A3 Translation Series Scanner
- VNIR-HR 400 to 1000nm, hyperspectral camera
- NIR-HR+ 950 to 1700nm hyperspectral camera
- Broad-band illumination
- Fore Objective Lens Kit
- Setup, focus, and calibration tiles
- Workstation computer
- Acquisition, visualisation, and analysis software
- Installation and application support.

### Optional Accessories

Comprising of the following:

- Auto-focus and auto-product height adjustment
- Machine vision systems for production line use
- Model creation for ultra-high speed, real-time production line sorting/grading applications
- SWIR-Series hyperspectral camera (1000-2500 nm)
- UV (320-500 nm) hyperspectral camera
- Raman hyperspectral camera and laser line illuminators
- LED and super-continuum laser illuminators