

HySpex Modular Industrial Housing Toolkit



The HySpex Modular Industrial Housing Toolkit is designed to protect HySpex hyperspectral systems in demanding industrial environments.

These modules can be deployed in different configurations to best suit each individual application. The modules are especially suitable for installation in extremely dusty environments over conveyor belts, mining trucks, and material processing facilities.

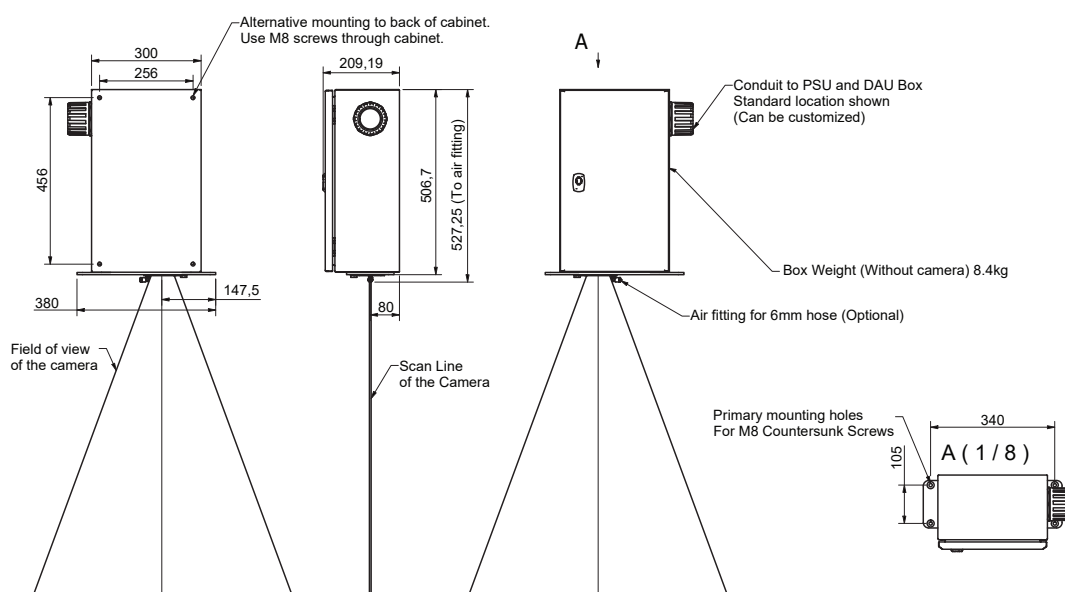
HySpex

Single Camera Housing

IP65 housing for a HySpex Classic or Baldur camera.

The housing has an access door on the front panel, with the camera mounted to the bottom of the housing over a fused Silica window.

204613 Single Camera Housing VNIR Assembly	
For VNIR cameras	
204875 Single Camera Housing SWIR Assembly	
For VNIR cameras	
Compatible cameras	HySpex VNIR, SWIR, and Baldur cameras
Mounting	Base plate or back-of-box
Size (cm)	45.6 x 38 x 20.9
Weight	9kg (Excluding camera)
Material	Powder-coated steel, anodized aluminium
Environmental protection	IP65 dust-tight and water-resistant
Operating conditions	-20°C to +45°C with Hyspex cameras
Window Air Nozzle (Optional)	Air nozzle blows air across the window to avoid dust buildup and reduce cleaning requirements (Requires clean, dry, compressed air).



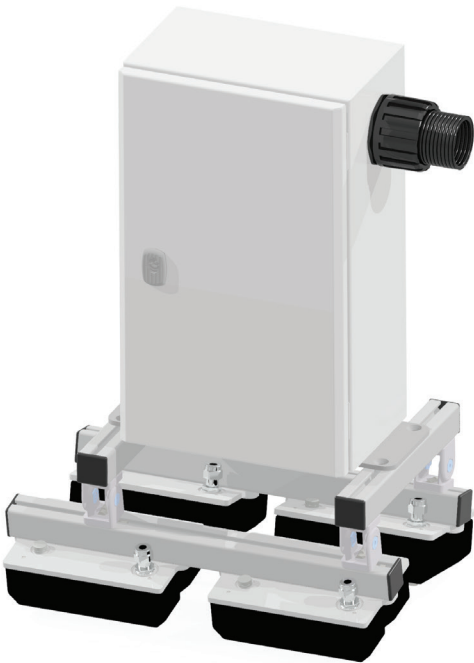
HySpex Lamp Mounting Kit

For mounting of 4 Sealed Lamps to a Single Camera Housing.

Standard configuration shown for the use of 2-4 lamps. Contact HySpex for inquiries regarding reconfiguring for more or fewer lamps and the installation of additional third-party sensors.

This frame is an ideal mounting location for the Camera Housing and can be extended to mount the system to the surrounding facility.

204617 Lamp Mounting Kit	
Material	Anodized aluminium profiles
Compatible camera module	204613 Single Camera Housing Assembly
Compatible lamps	2-4 X 204615 Sealed Lamp Assembly
Customization requests	Contact HySpex with your requirements



Mounting kit shown here with Camera Housing and 4 lamps.

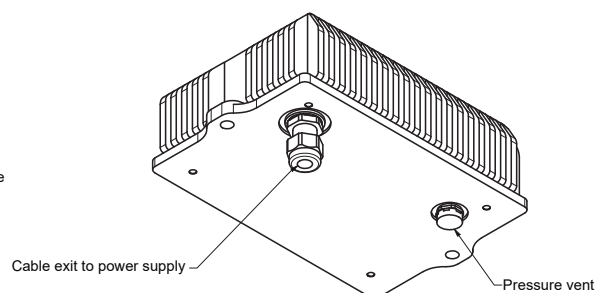
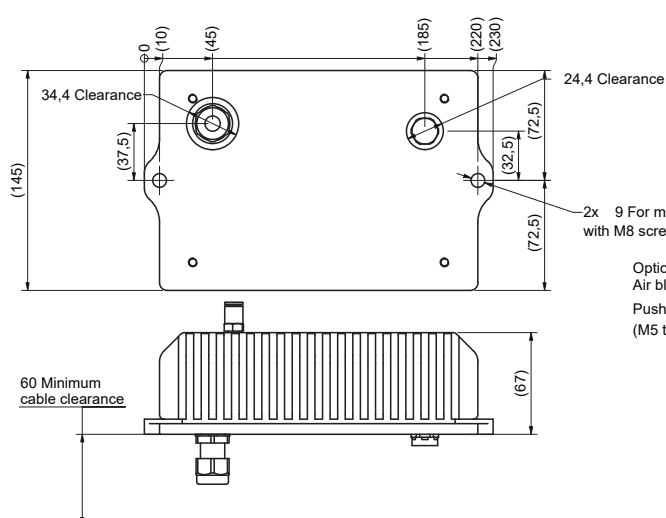
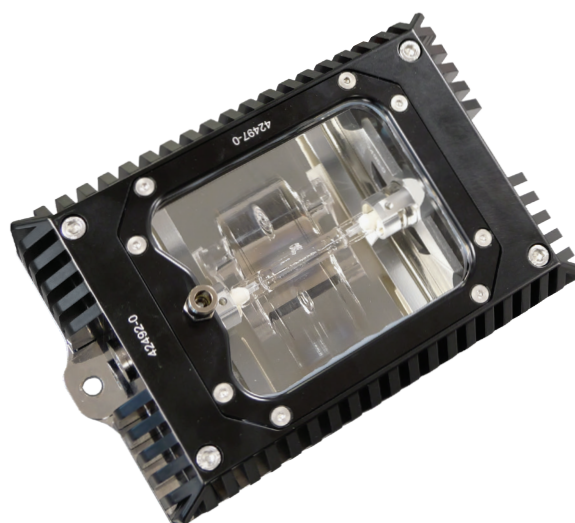
HySpex Sealed Lamp

IP65 lamps for HySpex cameras.

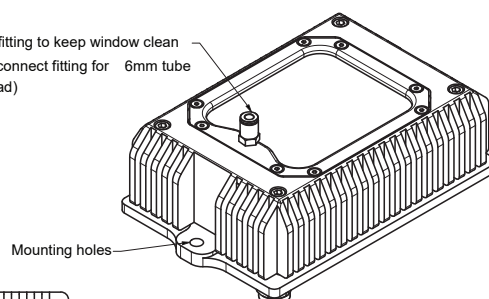
The sealed lamp replaces our standard lamps with a rugged sealed aluminium housing with a fused silica window.

204615 Sealed Lamp Assembly

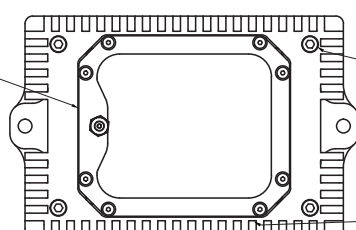
Illumination	Halogen, 12V 150W
Mounting	Two screws, back of housing
Size (cm)	23 x 14.5 x 6.7
Weight	3kg
Material	Anodized aluminium
Environmental protection	IP65 dust-tight and water-resistant
Operating conditions	-20°C to +45°C
Window Air Nozzle (Optional)	Air nozzle blows air across the window to avoid dust buildup and reduce cleaning requirements (Requires clean, dry, compressed air).



Optional:
Air blow fitting to keep window clean
Push-to connect fitting for 6mm tube
(M5 thread)



Glass sealant: Sikasil C (Clear) Alcoxy Silicone



HySpex PSU and DAU Box

Electronics cabinet to support the operation of HySpex cameras.

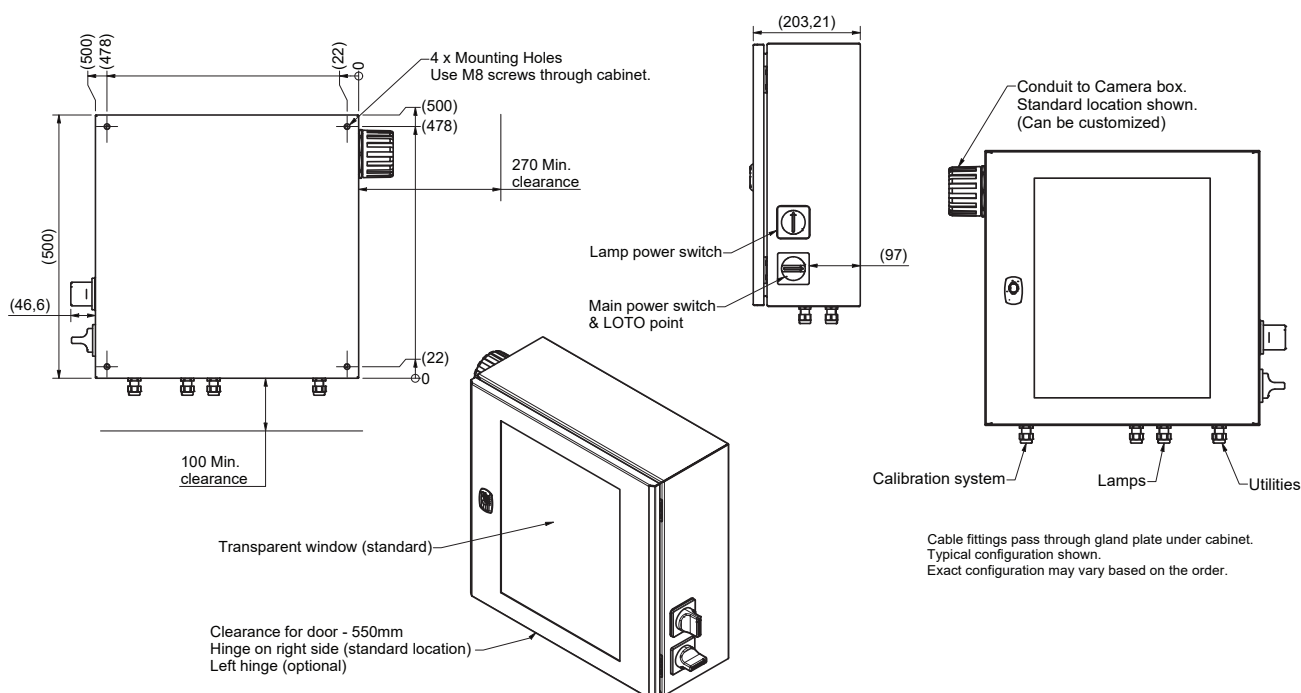
The cabinet contains the required power supplies and control systems to operate the HySpex cameras. The front of the cabinet is an access door with a clear window to more easily monitor the status of the electronics.

204616 PSU and DAU Box Assembly

Compatibility	HySpex VNIR, SWIR, and Baldur cameras, 1-4 lamps*
Control systems	HySpex NUC + Framegrabber Kit
Mounting	Back of box
Camera connection	IP65 flexible conduit (Max 2 meters from the Camera Housing)*
Size (cm)	45.6 x 38 x 20.9
Weight	<30kg, depending on options
Material	Powder-coated steel
Environmental protection	IP65 dust-tight and water-resistant
Operating conditions	-20°C to +45°C with Hyspex cameras



*Contact HySpex to inquire about customization needs, including different lamp configurations, longer conduit connections, etc.



HySpex

NUC + Framegrabber Kit

Processing computer and Framegrabber card for use with HySpex cameras.

Standard option for installation in the PSU and DAU box, and is well-suited for most customers, offering an economical and versatile solution.

204621 NUC + Framegrabber Kit	
Processing computer	ASUS NUC Mini-Computer (Contact HySpex for details on the latest available version)
Framegrabber	Included, compatible with HySpex SWIR, VNIR and Baldur cameras
Compatible housing	204616 PSU and DAU Box Assembly
Compatible software	Breeze by Prediktera, HySpex Ground

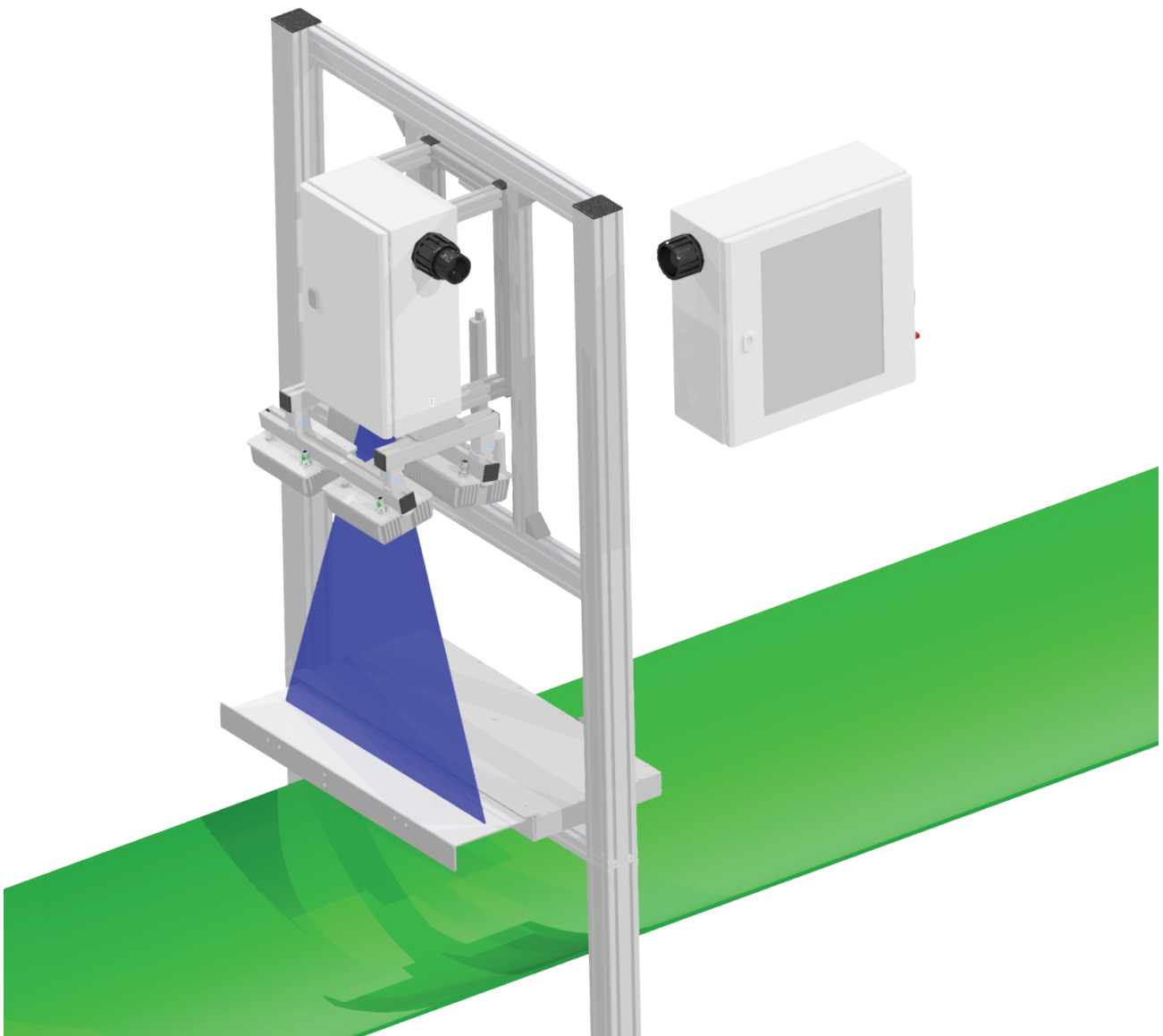
A third-party computer + Framegrabber solution can also be used. Contact HySpex for guidance to best implement a different solution.

HySpex Automatic Calibration System

Automated calibration system to conduct a reflectance calibration using a motorised white reference panel.

The calibration box hides the white reference panel in a housing to protect it from dirt when not in use.

The lift raises the camera and lamps to allow for focusing on a sample and calibration box at different heights.



204405 Retractable Calibration Box Assembly	
Calibration panel	White reference (Reflectance), 80cm wide. Suitable for 1m 40° lens
IP rating	IP40, for use in dusty environments (Requires compressed air)
Calibration process	On-demand, automatic (start of new scan), or via API

204663 Lift Assembly	
Lift system	24V DC motor
IP rating	IP 65 (Static)
For use with	Automatic calibration requiring different heights for samples and reference panel

Contact HySpex for guidance on how to best implement Automatic Calibration with your system.



HySpex

Industrial Interface

For the control, monitoring, calibration, and troubleshooting of HySpex systems.

The systems can also be operated remotely or connected to any third-party screen/keyboard system using USB and HDMI connections.

204618 Portable 16" Monitor

System	Handheld screen for use only when needed
Environmental	Not IP-rated. Should be kept in a clean, dry area when not in use

204620 Industrial Mounted 21.5" Touchscreen

System	21.5" PCAP Industrial Touchscreen, for permanent installation next to camera system
Mounting	Standalone box or Door of PSU + DAU box (replaces window)
Environmental	IP65, 0°C to +50°C

204619 Industrial Workstation

System	Industrial workstation with Monitor and Keyboard, built in a rugged stainless housing
Environmental	Dust and water-resistant, Washdown compatible

The industrial workstation is made-to-order and available with various configurations and mounting solutions. Contact HySpex for details.