

# HySpex Modular Industrial Housing Toolkit



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

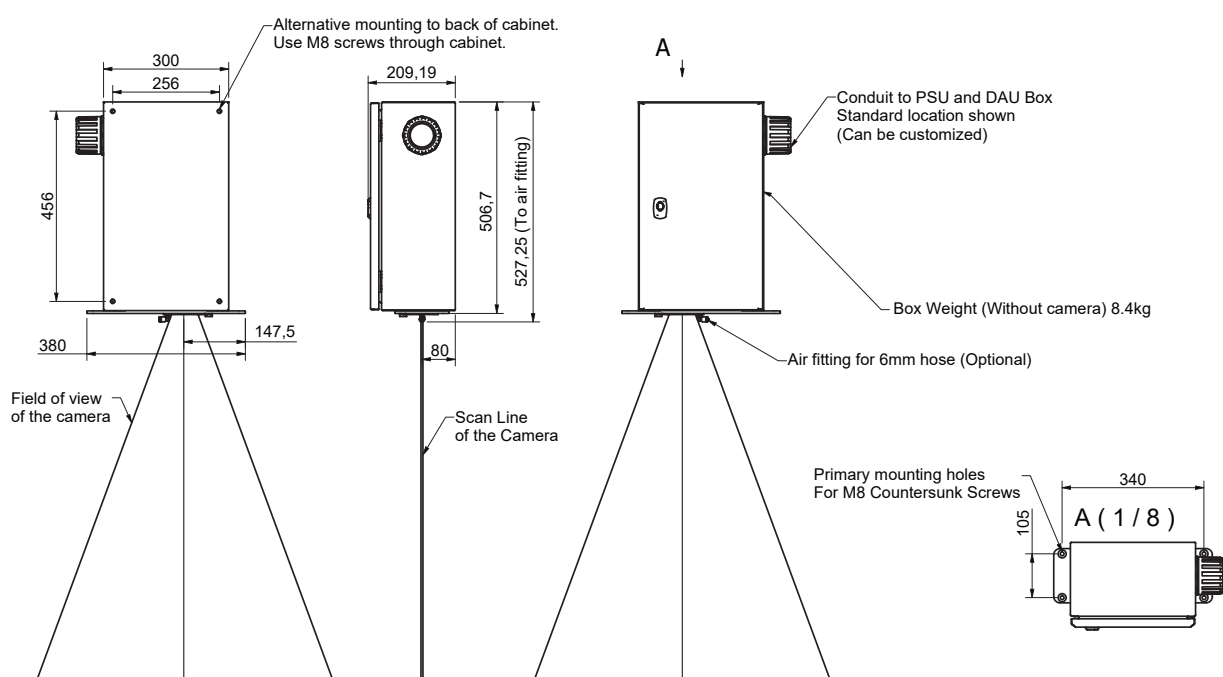
These modules can be deployed in different configurations to best suit each individual application. The modules are especially suitable for installation in extremely dusty environments over conveyor belts, mining trucks, and material processing facilities.

# 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 Assembly |                                                                                                                                      |
|---------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 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.

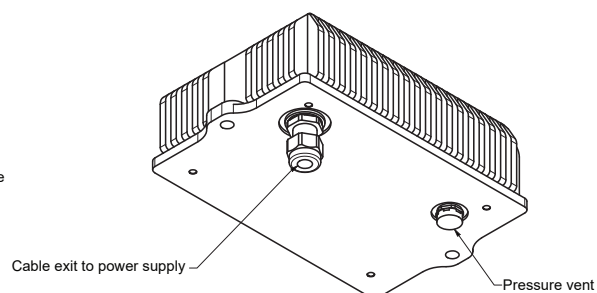
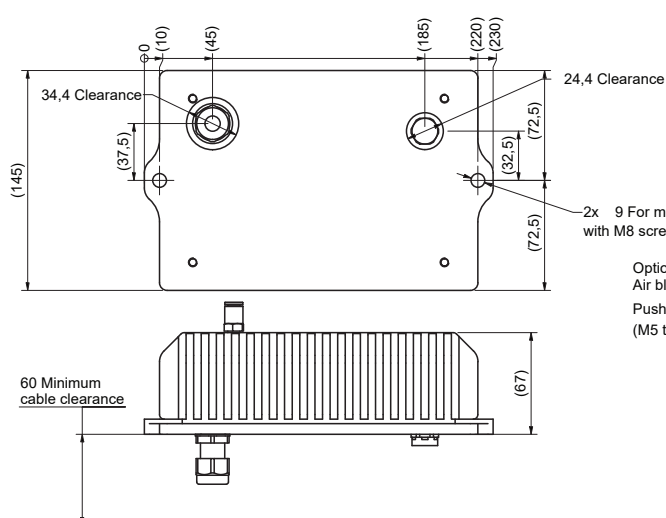
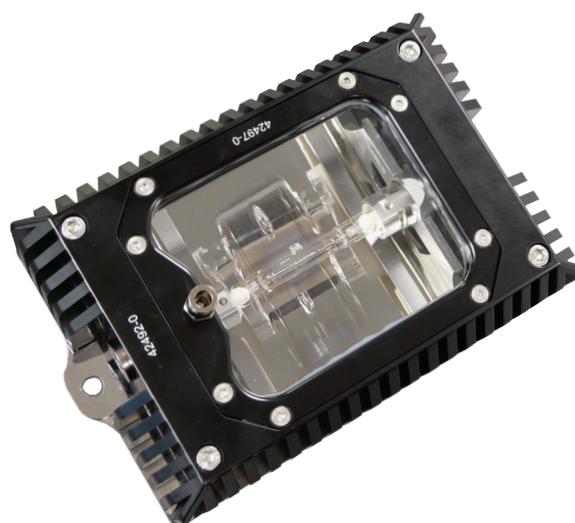
# HySpex Sealed Lamp

IP65 lamps for HySpex cameras.

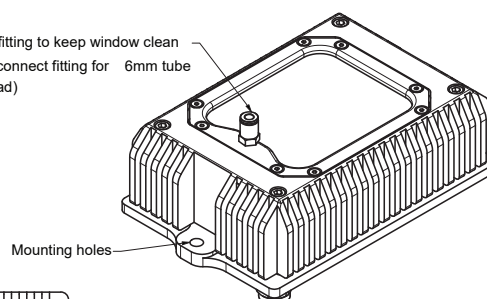
The sealed lamp replaces our standard lamps with a rugged sealed aluminium housing with a fused silica window.

## 204615 Sealed Lamp Assembly

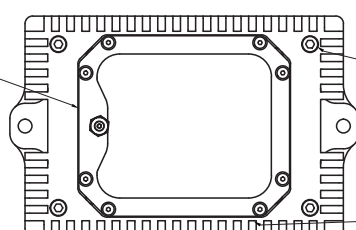
|                              |                                                                                                                                      |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| 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

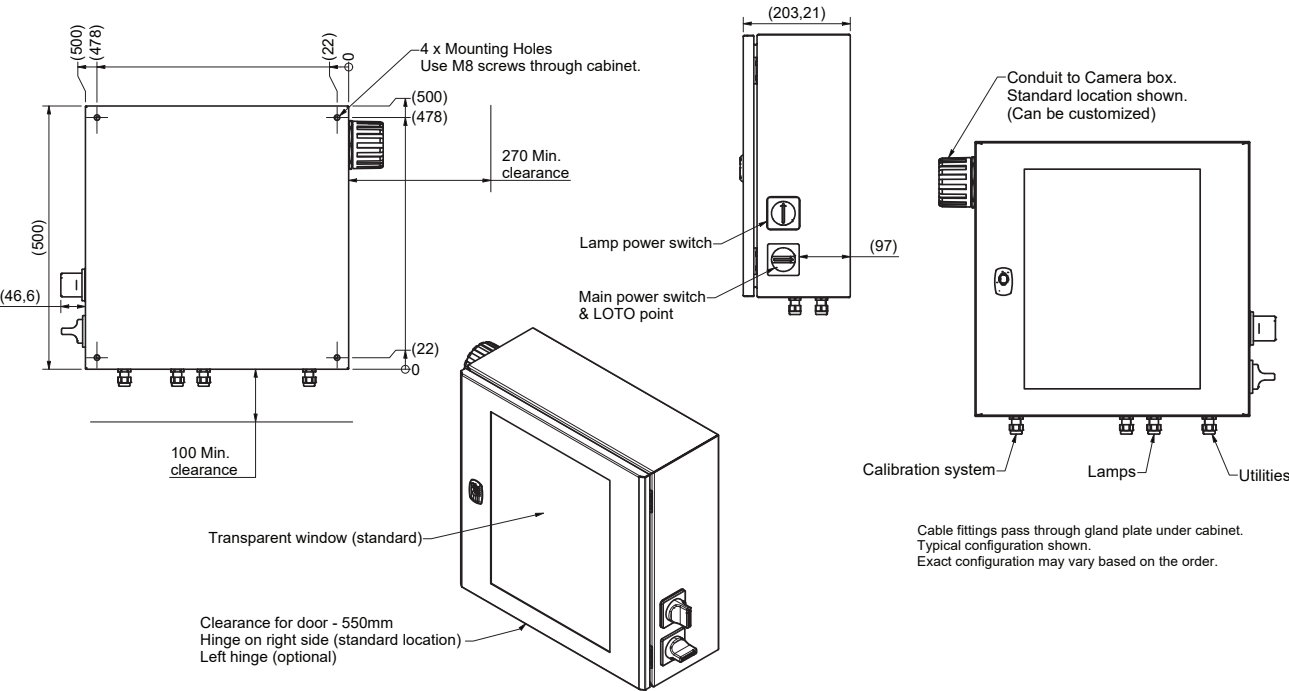
Electronics cabinet to support the operation of HySpex cameras.

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

## 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.