

Quickstart Guide LineVu 300 Discovery



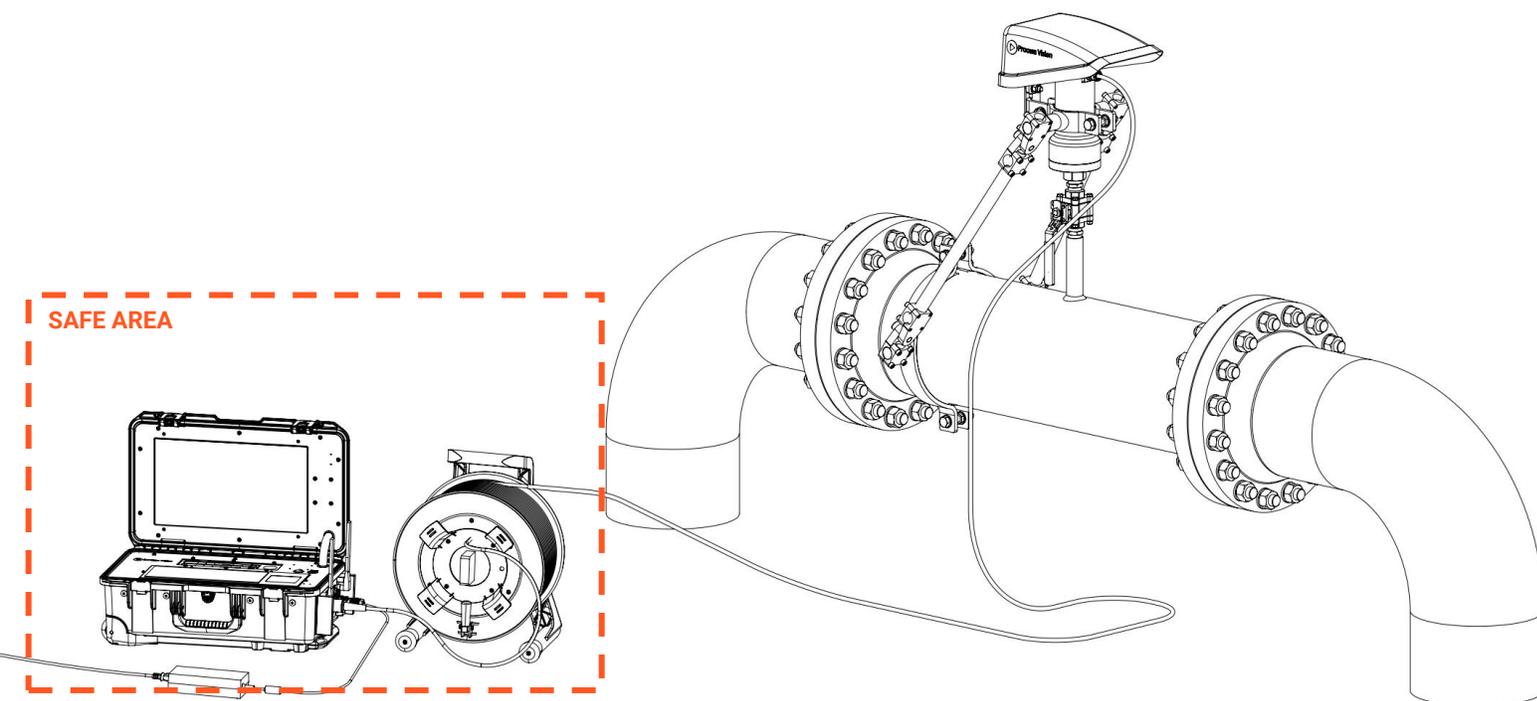
LINEVU SUPPORT



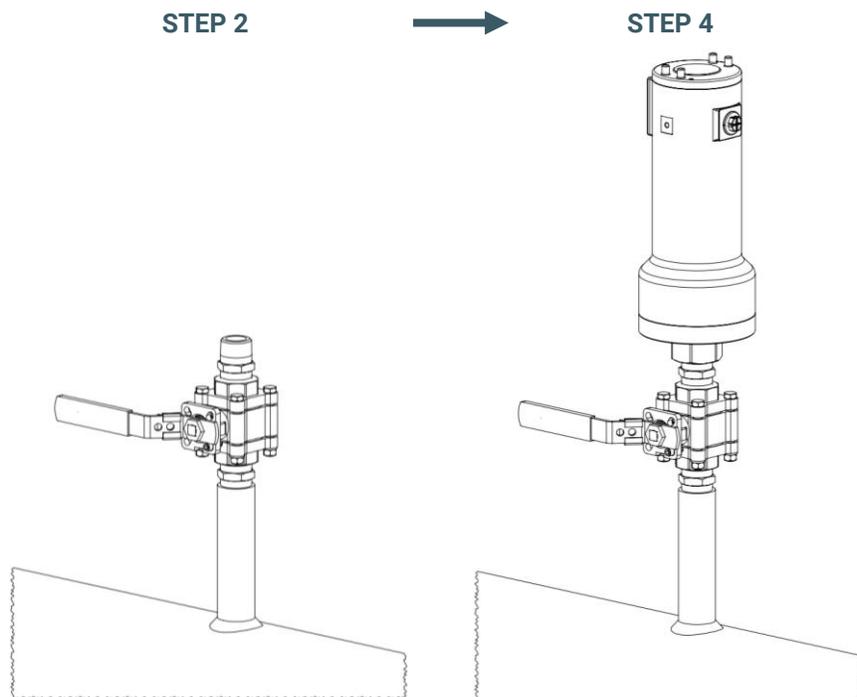
Pre-Installation Checklist

- ☑ **Component Verification**
Confirm that all required components, tools, and equipment are accounted for, including those listed under "**Special Tools, Materials, and Equipment.**" (In the full installation manual - [Discovery Installation Guide](#))
- 📄 **Documentation Review**
Ensure this quick-start manual has been reviewed to understand all steps and required tools before beginning the installation.
- 🛡️ **Safety Measures**
Any safety concerns related to the LineVu product should be communicated to the LineVu support team for guidance.
- ✂️ **Equipment Preparation**
Ensure a visual inspection of all equipment to confirm no damage occurred during transit. If any damage is found, please notify your Process Vision representative before installation is started.

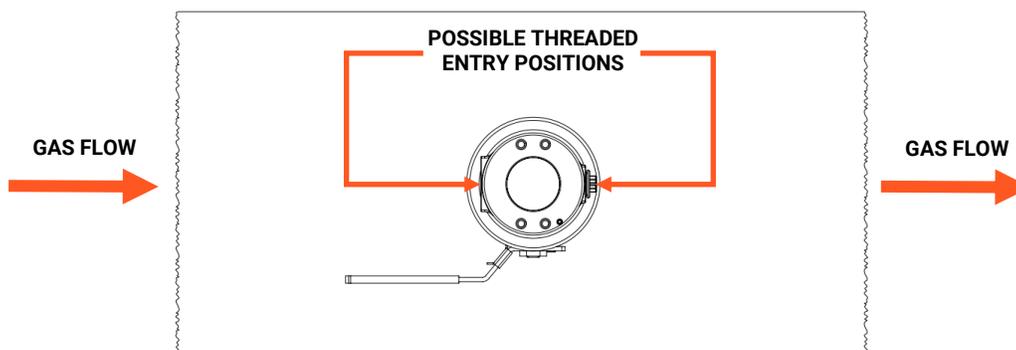
LET OUR SUPPORT TEAM KNOW IN ADVANCE TO ENSURE HELP IS AVAILABLE DURING INSTALLATION.



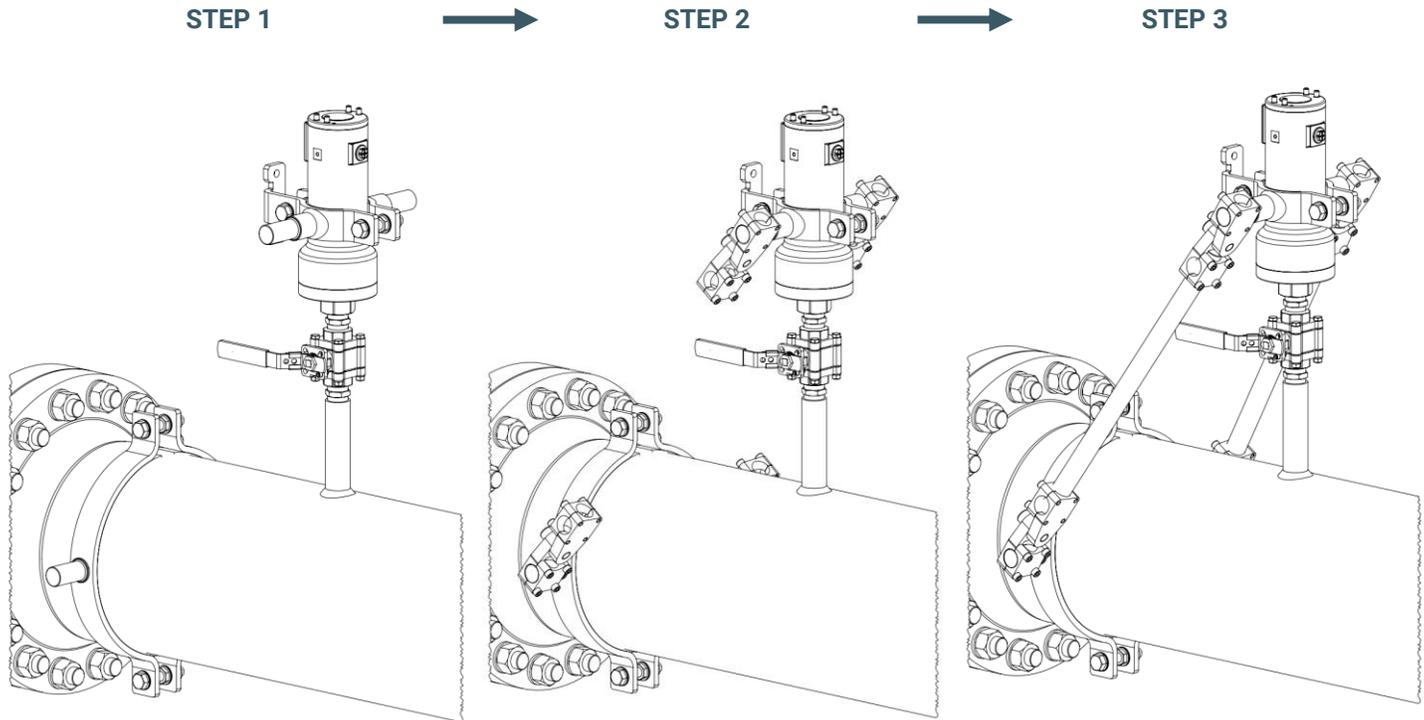
Install LineVu to Tapping Point



- STEP 1** Carefully remove the LineVu unit from the packaging. Place it on a clean, flat surface near the tapping point, ensuring the unit remains undamaged during handling.
- STEP 2** Apply pipe tape to the threads of the provided blackened 1" NPT Hex Adapter, ensuring the bore remains clear to prevent obstruction of the unit's view. Securely attach the Hex Adapter to the pre-installed valve. If installing a new valve, use the second blackened 1" NPT Hex Adapter before mounting the valve.
- STEP 3** Carefully turn the LineVu unit onto its side and thoroughly clean the sapphire window (clear window) using the provided long reach cleaning swabs before installation.
- STEP 4** Mount the LineVu unit onto the tapping point with the threaded entry aligned with the flow of gas or in the opposite orientation as shown below. If proper alignment is not possible, please provide Process Vision with photos or details describing the unit's rotational position.



Install Bracing System

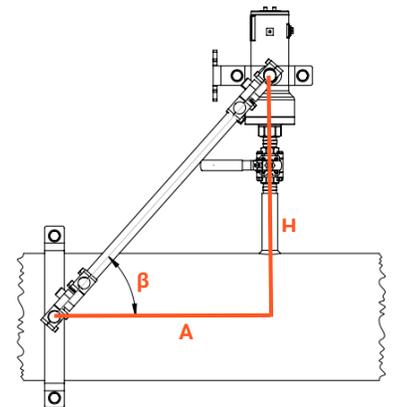


STEP 1 Use the provided fixings to attach the two pipe clamps to the LineVu body and the main pipeline. Ensure the clamps are oriented as shown in the diagram above. Leave the pipeline clamp slightly loose to allow for later adjustments.

STEP 2 Attach the AVT Uni-Clamps to the pipe clamps installed in step 1. Ensure they are properly aligned and secure.

STEP 3 Measure the distance between the two Uni-Clamps to determine the required length for the struts. Cut the provided struts to the measured length, then install and securely tighten all fixings to complete the assembly. If cutting is not possible, rotate one of the Uni-clamps per pair to allow the pipe to pass through.

IMPORTANT! Ensure bracing arm installation angle (β) is equal or less than 45° (alternatively, $A \geq H$).



IS THERE AN ORDER TO
INSTALLING THE BRACING KIT?

SCAN FOR THE BRACING
INSTALLATION INSTRUCTIONS

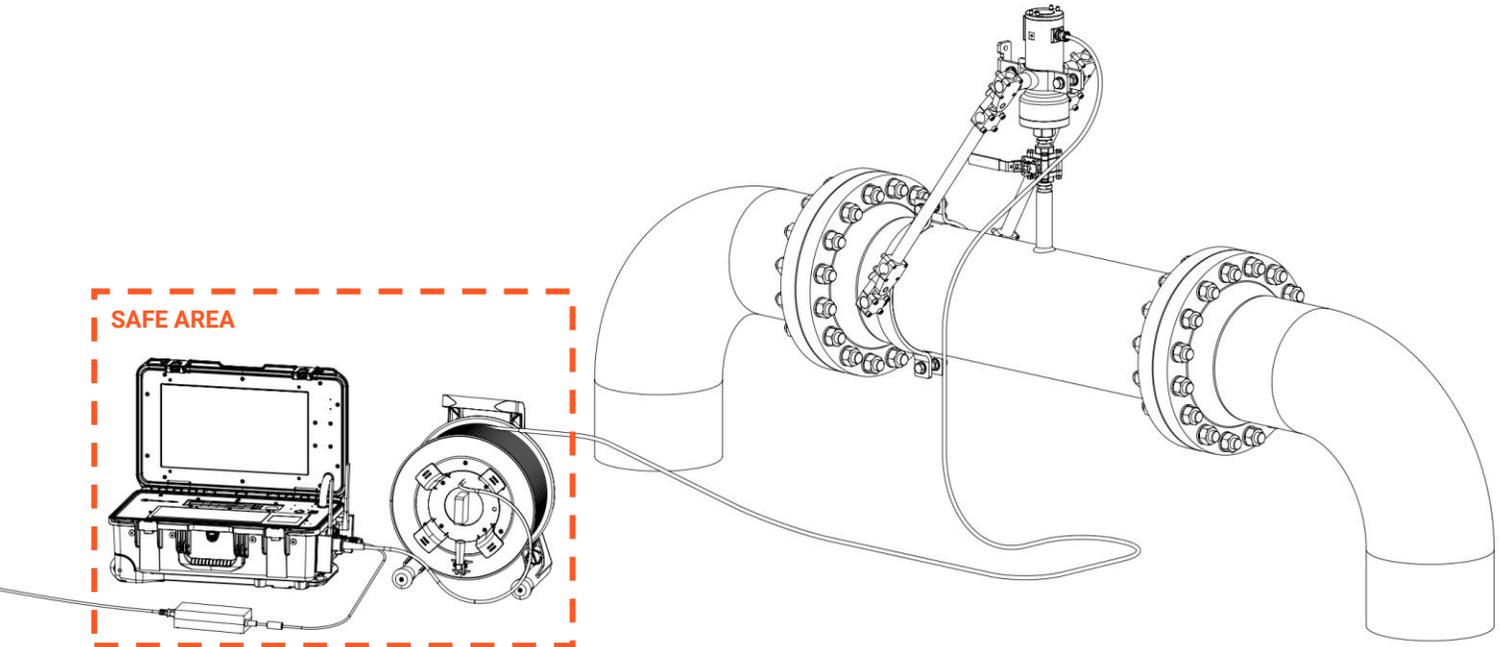


HOW DO I INSTALL THE BRACING?

WHAT TORQUE IS REQUIRED?

Consult the [AVT Reliability Easy-Brace® installation instructions](#) for further details.

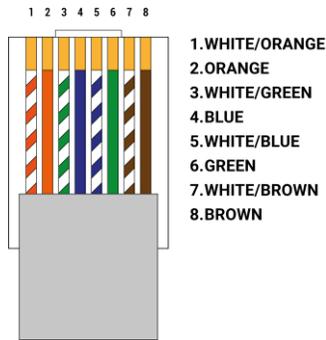
Connect LineVu to Discovery Unit



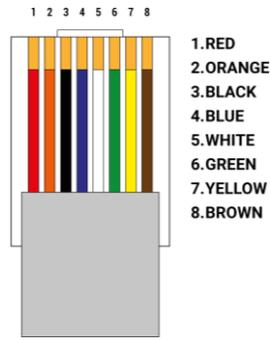
- STEP 1** Route the ethernet cable from the safe area to the LineVu unit. Leave some extra cable to create strain relief loops, ensuring flexibility and reducing tension on the cable and secure with cable ties.
- STEP 2** Loosen the security set screw and remove lid from the LineVu unit. Remove the pre-installed blanking plug from the threaded entry. Assemble the M20 fiber washer and then the gland into the exposed gland entry. Ensure all components are securely fitted.

CAUTION: Removing the LineVu lid will expose the threaded Ex-d flame path – TAKE EXTREME CARE TO NOT DAMAGE AND REPORT TO MANUFACTURER IF DAMAGE OBSERVED BEFORE USE

- STEP 3** Feed the un-terminated ethernet cable through the fitted gland, leaving some excess cable to simplify the termination process for the RJ-45 connector. If pre-terminated, then skip step 4 and 5.
- STEP 4** Terminate the ethernet cable using the provided S/FTP CAT6A connector. Refer to the pinout diagrams below and the provided tutorial QR code for detailed guidance.
- STEP 5** Perform an end-to-end test of the ethernet cable to verify connectivity before connecting it to the LineVu unit. Once confirmed, secure the gland by tightening it around the ethernet cable.
- STEP 6** Refit the lid and lightly tighten the set screw to prevent accidental loosening.
- STEP 7** Attach an earthing cable to the LineVu unit's earthing point using the supplied M6 bolt and spring washer. Ensure the ring terminal thickness does not exceed 1.0 mm and tighten the bolt to a maximum of 3 Nm.
- STEP 8** Connect the shorter end of the Ethernet cable reel to the Discovery Unit.



T-568B STANDARD

PROCESS VISION
ETHERNET CABLE REEL

SCAN TO WATCH TUTORIAL

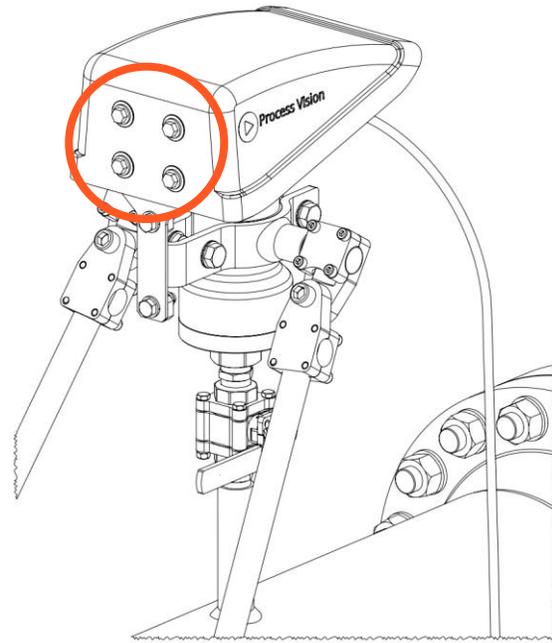
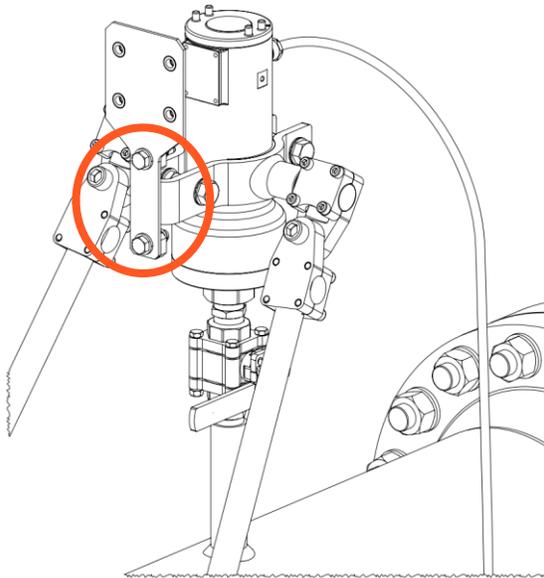


Install Sunshade

STEP 1



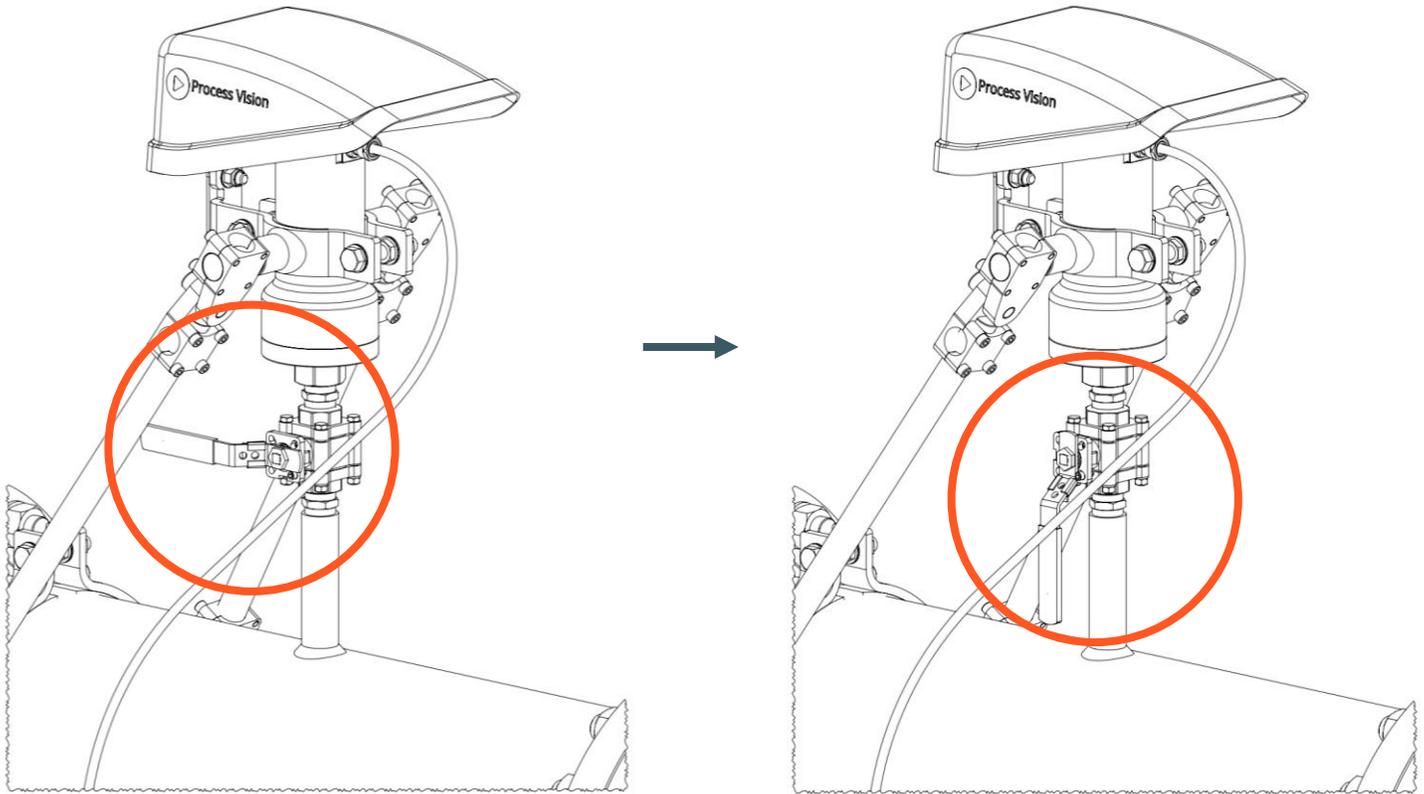
STEP 2



STEP 1 Attach the sunshade bracket to the bracing clamp with the flat side facing outward. Secure it using the supplied bolts, washers, and locknuts. Tighten the bolts to a maximum torque of 65 Nm.

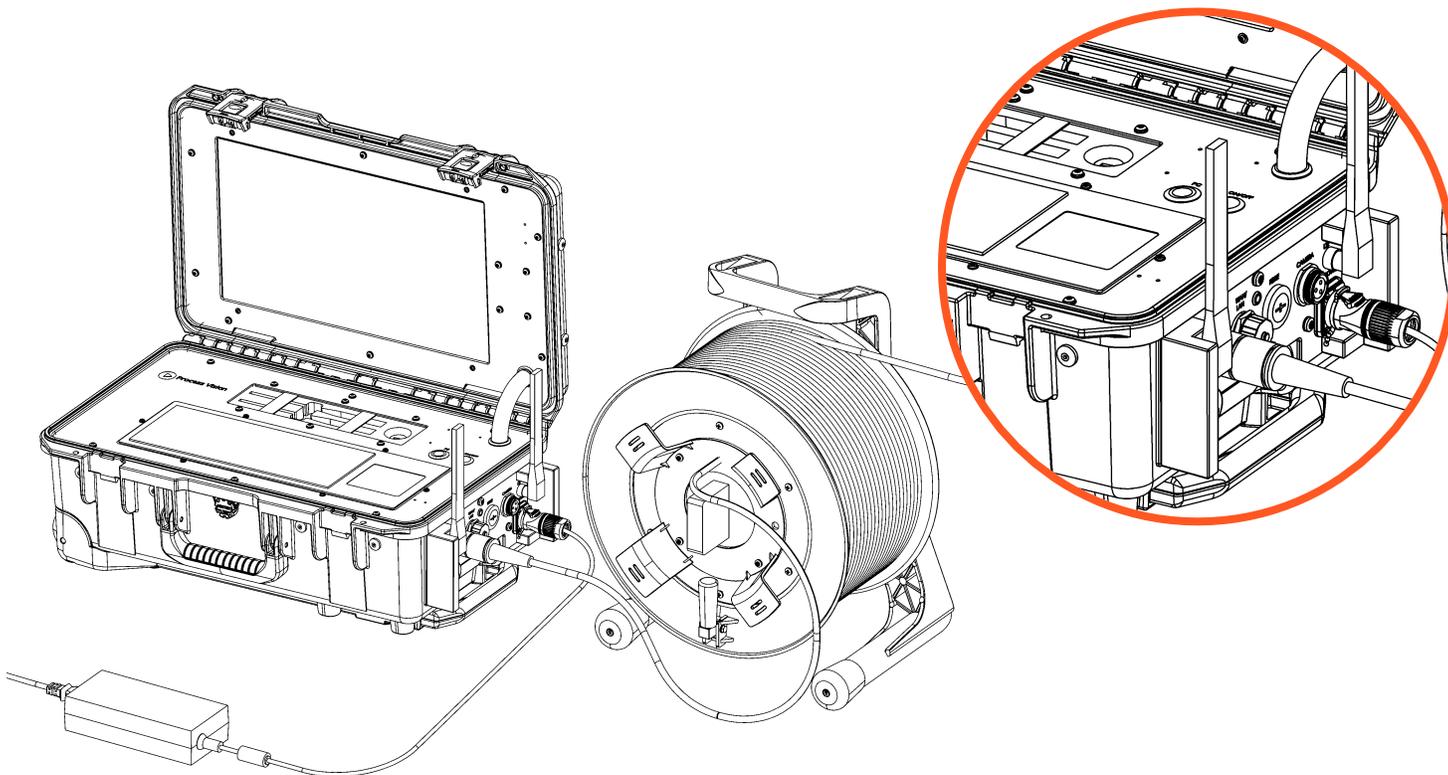
STEP 2 Align the sunshade with the bracket and attach it using the provided bolts. Tighten the bolts to ensure the sunshade is securely mounted. Max 25 Nm.

Opening the Valve



CAUTION: Open the valve slowly to allow pressure to equalize and prevent contamination from spraying onto the camera window.

System Power-Up & Initialization



- STEP 1** Attach the antennas securely to the Discovery Unit. Connect the Discovery Power Supply to the designated port on the Discovery Unit.
- STEP 2** Press the ON/OFF button to turn on the Discovery Unit.
- STEP 3** Wait for the Discovery Unit to boot up and notify the Process Vision Support Engineer to begin commissioning.

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Support and Assistance

Connect with our support team through [Support Portal \(support.processvision.com\)](https://support.processvision.com)
or, alternatively email us support@processvision.com

LINEVU SUPPORT

