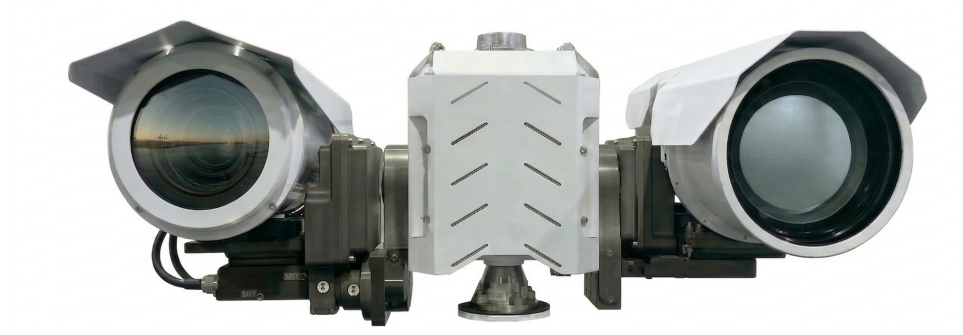


Jaeger MK4

Installation Manual



Silent Sentinel Jaeger MK4 Installation Manual

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PDF-JAEGAR-MK4-INSTALL

Revision: 1 – EN

20260508

Regulatory Notices

Disclaimer

Please note that certain features, facilities, and capabilities described in this document may not be applicable to or licensed for use on a specific system, or may be dependent upon the characteristics of a specific unit or configuration of certain parameters. Please refer to your representative or contact for further information.

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USA FCC (EMC) Requirement

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



NOTE

This equipment has been tested and found to comply with the limits for a [Class A digital device](#), pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against [harmful interference](#) when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate [radio frequency energy](#) and, if not installed and used in accordance with the instruction manual, may cause [harmful interference](#) to radio communications. [Operation](#) of this equipment in a residential area is likely to cause [harmful interference](#) in which case the user will be required to correct the interference at his own expense.

Silent Sentinel Jaeger MK4 Installation Manual

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Supplier's Declaration of Conformity

Per FCC CFR 47 Part 2 Section 2.1077(a)

Responsible Party

Name: Motorola Solutions, Inc.

Address: 2000 Progress Pkwy, Schaumburg, IL. 60196

Email: VSACompliance@motorolasolutions.com

Hereby declares that the product:

Model Name: JPTX-MK4-I360200W conforms to the following regulations:

FCC Part 15, subpart B, section 15.107(b) and section 15.109(b).

Canada ICES (EMC) Requirement

This Class A digital apparatus complies with CAN ICES-003(A) / NMB-003(A).

For the EU

ESD to the system when it is operating could cause a temporary loss of video. When servicing the system appropriate ESD mitigation procedures should be followed. The operator should remove any static by grounding themselves before servicing the system.



WARNING

Operation of this equipment in a residential environment could cause radio interference.

EU WEEE



— This symbol means that according to local laws and regulations your product should be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. Some collection points accept products for free. The separate collection and recycling of your product at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment WEEE.

For All Countries

The use of EMC compliant support and auxiliary equipment with this device is required in order to fully comply with the EMC regulatory standards.

Safety Information

The Jaeger MK4 system is a modular platform designed to support various optical sensors, including both cooled and uncooled thermal cameras. NexOS provides the primary interface for managing these sensors, controlling pan and tilt movements, and facilitating VMS interaction.

Safety Precautions:

- **Qualified Personnel:** Installation must only be carried out by competent and qualified engineers in accordance with local codes.
- **Adequate Support:** Heavy or awkward components must be handled by more than one person.
- **Electrical Safety:** Disconnect power from all sources before working on the equipment and ensure all connections are made with the power turned off.
- **Mechanical Handling:** Do not back-drive the pan or tilt axis of the camera, as this will damage the motor drive and invalidate the warranty.
- **Cleaning:** Do not use caustic or abrasive cleaning products on the unit.



WARNING

When adjusting the boresight it will be necessary to work close to the installed assembly while it is powered on and functional. If possible, temporary controls should be placed next to the assembly and operated by the person working on the unit. If this is not possible then great care must be taken that all pan and tilt movements are coordinated between the site operative and the person at the remote controls. If necessary, use barriers and warning signs to ensure that other personnel are not endangered by the assembly.



CAUTION

As part of the commissioning process the laser illuminator and laser rangefinder will need to be energized. All personnel in the vicinity of the assembly must wear certified laser safety eyewear and avoid looking directly into the lasers at all times. If necessary, use barriers and warning signs to ensure that other personnel are not endangered by laser emissions.

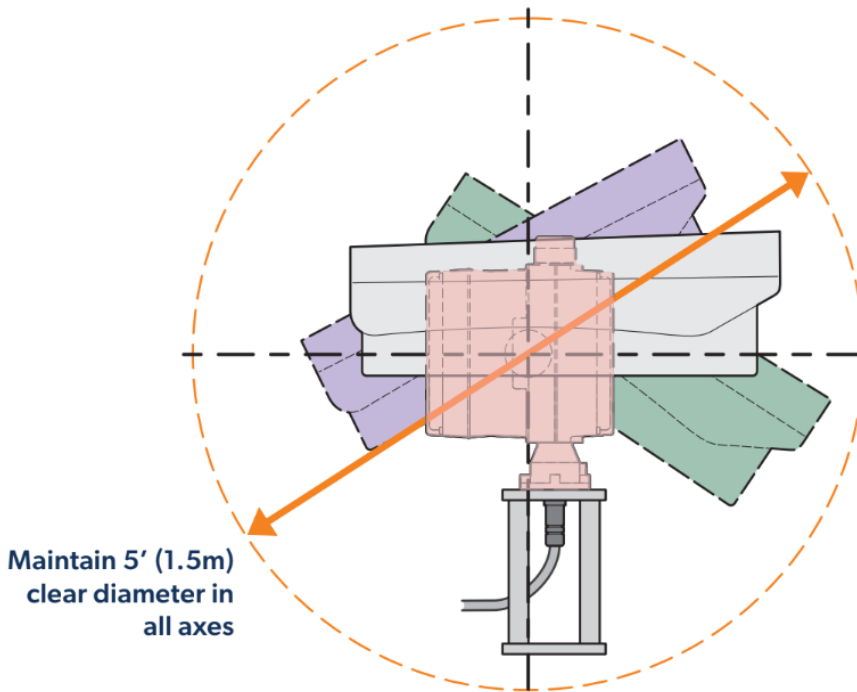
System Size and Clearance

The main pan/tilt (PT) unit has a diameter of 5' (1.5m) and can rotate in all directions.



CAUTION

Ensure that this space is kept clear of personnel and objects when rotating the unit.



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Introduction

The Jaeger MK4 Installation Manual provides instructions for installing the Jaeger MK4 system with one-to-two payloads and boresighting.



NOTE

The Jaeger platform is highly customizable and this manual only covers the Jaeger MK4 system with two-payloads. See "Product documentation" at pelco.com for additional resources.

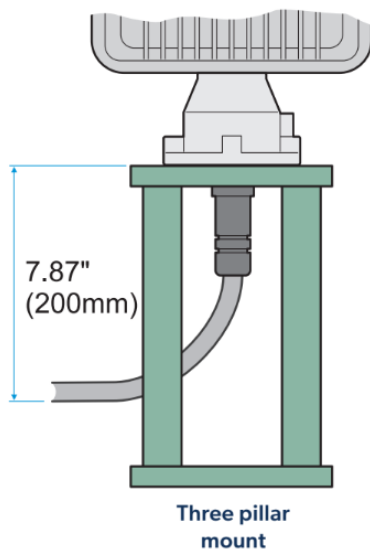
Preparation

The following topics are required to prepare for the installation.

Required Tools & Materials

To install a Jaeger MK4, you will need the following tools and materials:

- M3 Allen key tool: Required for removing the cover plate screws from the rear (horizontal) adjustment mechanism and for securing the cover plate of the vertical adjustment mechanism. It is also used to loosen the locking screw for vertical adjustment.
- M2.5 Allen key: Required to loosen (but not remove) the two locking grub screws located in the recess holes either side of the adjustment wheel for horizontal adjustment.
- Chisel-tip (slot) screwdriver: Used to turn the adjustment wheel for both horizontal adjustment and vertical adjustment.
- Pillar mount: For best results use a three pillar mount to link the PT unit with the main mounting surface. This will allow the mounting bolts to be inserted and tightened, and also provide sufficient space and access for the main power and control connection. Connection is made via a MIL spec connector and multicore cable. The length of the connector plus the minimum bend radius of the cable mean that a minimum of 7.87" (200mm) space is required immediately below the PT unit mount.



Package Contents

The contents of the Jaeger MK4 system can be broken down into: the main Jaeger pan/tilt (PT) system, the fixtures and fittings required for mechanical installation, and additional associated accessories or kits, like the Isolation Kit.

Main Jaeger MK4 PT System

The Jaeger PT system comprises of one Jaeger PT Unit and up-to two payloads.

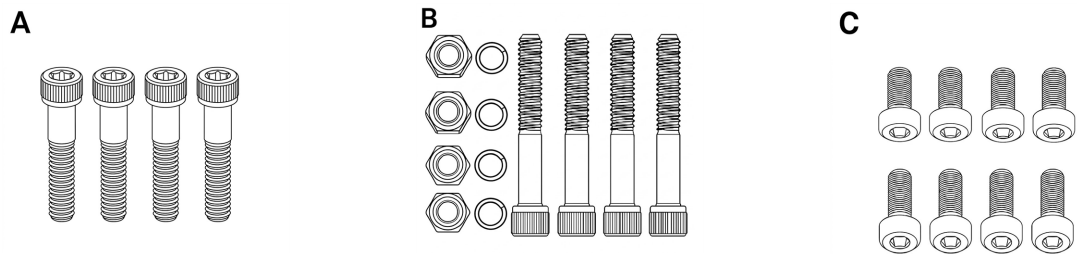


NOTE

The number and type of payloads can vary from unit to unit, and the installation documentation only considers the 2-payload system.

Fittings and Fixings (Nuts and Bolts)

The following fittings are provided with the Jaeger System to facilitate mechanical installation:



	Fitting Category	Item	Quantity
A	Top Mount Fittings	M6x35	4
B	Main Jaeger Fittings	M8x60	4
		Spring Washers	4
		M8 Nuts	4
C	Side payload Fittings	M8x30	1 per payload
		Flat Washer	1 per payload

Cable Information

Jaeger cables come in various lengths, up to 50m, and in two different formats:

1. Double ended: Each end of the Jaeger cable is terminated with a MIL38K Connector (typically used if a pre-terminated PSU is purchased).
2. Bare Ended: The Jaeger end is terminated with the MIL38K Connector, but the PSU end of the cable is left as 'flying leads' with only the RJ45 and BNC conductors terminated.

Isolation Kit Contents (Optional)

Isolation Kit package contents:

- Gasket kit for electronically and galvanically isolating payload mount from mounting surface

Power/Interface Requirements

The following voltage input and power draw are required to power a Jaeger MK4 payload:

- Voltage Input: 48 VDC
- Power Draw (PT Unit Only): 100W (Max 150W)



NOTE

Power draw may be up to 1000W depending on the configuration.

These specifications do not include large payloads, optional heating or cooling inside payload enclosures, or optional infrared lights.



NOTE

Top mounted (fixed) sensors are powered separately from the PTZ system.

Installation

The following tasks outline the systematic process for mounting the main PT unit, connecting payloads, and boresighting your Silent Sentinel payload to ensure proper installation and performance. Please follow these instructions carefully to maintain the unit's integrity.

Installing the Main Pan/Tilt (PT) Unit

Install the main Jaeger pan/tilt (PT) unit by itself before attaching payloads. The PT unit must be securely mounted to a sturdy surface that is able to withstand the weight of the whole assembly, plus dynamic wind loading plus a suitable safety factor.



NOTE

For best results use a three pillar mount to link the PT unit with the main mounting surface. This will allow the mounting bolts to be inserted and tightened, and also provide sufficient space and access for the main power and control connection. Connection is made via a MIL spec connector and multicore cable. The length of the connector plus the minimum bend radius of the cable mean that a minimum of 7.87" (200mm) space is required immediately below the PT unit mount.



CAUTION

The PT unit weighs 66 lbs (30kg). Lifting and mounting should be always completed by two people.

Requirements:

- x4 M8x60: Use socket head screws made with premium grade stainless steel with high tensile strength. The compact base of the PT unit has x4 M8 holes and must only be used with M8 fixings that are fully rated for the task.
- x4 Spring Washers
- x4 M8 Nuts

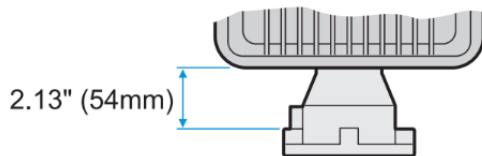
Steps:

1. Lift the PT unit onto the secure mounting surface. Ensure that a clear diameter of 5' (1.5m) is maintained in all axes between the assembly and any other object.
The base of the PT unit is very compact and 'top heavy' when not secured to a surface. For this reason the unit should never be left standing upright on a surface without being secured.
2. Locate the primary mounting points on the base of the Jaeger main unit. See [Appendix A: Base Connector Pin-out on page 24](#) for the location of the Jaeger Mounting Points.

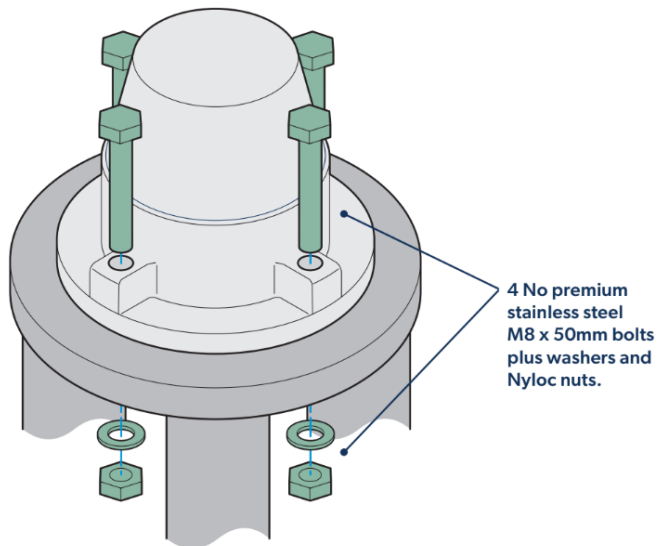


NOTE

There is very limited space between the bottom of the PT unit body and the top of the four bolt holes (2.13" 54mm). For this reason, if inserting bolts from the top down into the mounting surface) a maximum bolt length of 50mm is possible.



3. Insert x4 M8 50mm stainless steel bolts and attach washers and nuts.
4. Tighten all bolts evenly.



Installing the Isolation Kit (Optional)

The Isolation Kit provided with the payload prevents galvanic corrosion by isolating the metal of the unit from the metal of the mast or platform it is secured on.



TIP

Use the isolation kit when installing cameras to certain mounting surfaces, especially metal-to-metal, to isolate the camera mount from touching the other surfaces. If the camera is installed directly on a surface, like stainless steel for example, the camera can experience ground loops and galvanic corrosion.

1. Insert the black rubber matting between the payload base and the mount to electrically isolate the metal surfaces.
2. Coat the supplied aluminum bolts with an isolating compound.

Installing the Top Mount

Install the top mount to the main Jaeger MK4 pan/tilt (PT) unit using the components provided. The main PT unit must be securely installed to the mast before installing the top mount.

Requirements:

- x4 M6 bolts
- Washers (sprung washers are recommended)

Steps:

1. Locate the pins on the Top Mount connector.
2. Line up the provided top mount with the locating pins and use the provided fixings to attach the top mount: x4 M6 bolts and x4 sprung washers.



IMPORTANT

Ensure you use the sprung washers and nuts provided. These components significantly reduce the possibility of bolts working loose when the system vibrates.

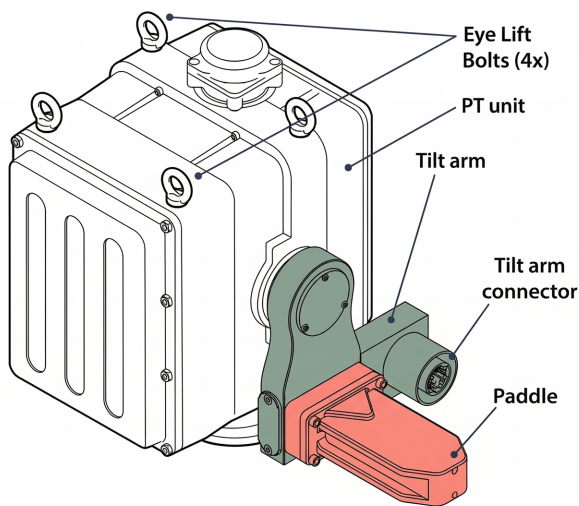
Attaching Payloads

You can attach payloads to both sides of the Jaeger pan/tilt (PT) unit. Typically, the payloads will be installed in the upper position and a corresponding non-optical payload in the lower position. The payloads can be attached to the tilt arms in any order. However, it can be easier to fit the lower payloads first.



CAUTION

Each payload can exceed 44 lbs (20 kg). This procedure should be completed by two people, particularly in exposed conditions.



Components:

- Eye Lift Bolts (4x): Load-bearing attachment points located on the top of the PT unit. These are specifically designed for crane-assisted lifting and rigging to ensure the unit is moved safely and remains level during installation.
- PT Unit: The main housing containing the pan/tilt motors and control electronics.
- Tilt Arm (Green): The structural component that provides vertical rotation for the payload.
- Tilt Arm Connector (Green): The port used to provide power and data to the attached payload.
- Paddle (Red): The mounting platform where the payload or sensor is physically attached.

Requirements:

- 6mm hex key to tighten the bolt

Steps:

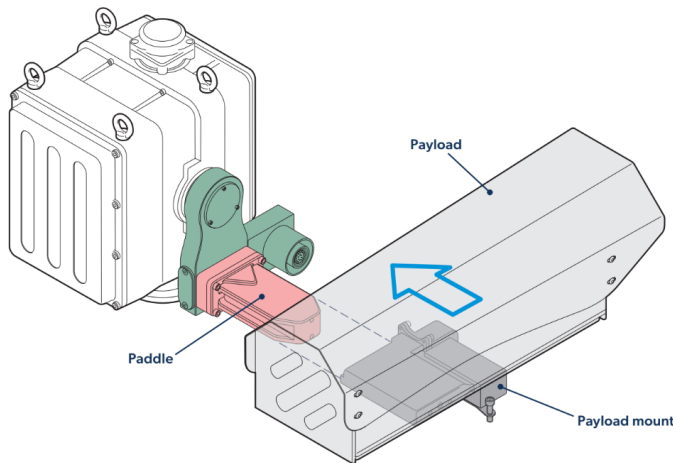
1. Isolate the payload from its power supply before attempting to attach or detach payloads.
2. Remove the protective cap from the tilt shaft and store it in a safe place; the protective cap must be reattached after removing the payload to protect the electrical connections.



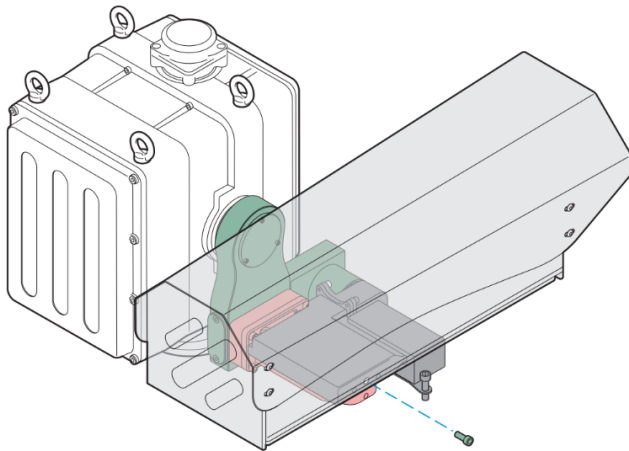
CAUTION

The IP67 protection of the unit is compromised whilst this cap is removed and the payload is unattached.

3. With assistance from a colleague, carefully lift the payload and line up its payload mount with the correct ribs of the paddle.
4. Slide the payload mount fully onto the paddle. Ensure the payload connector engages correctly with the tilt arm connector.



5. Insert the supplied M8 bolt into the main section of the payload mount, where it will engage with the end of the paddle. Use the 6mm hex key to torque the bolt. Do not overtighten the bolts.



6. Repeat the procedure for all remaining payloads.

Removing Payloads

When removing a payload it can sometimes be difficult to initially separate the payload from the paddle and tilt arm connections. To assist, you can use the lock bolt as a jack screw in order to get the payload separated from the PTU.



CAUTION

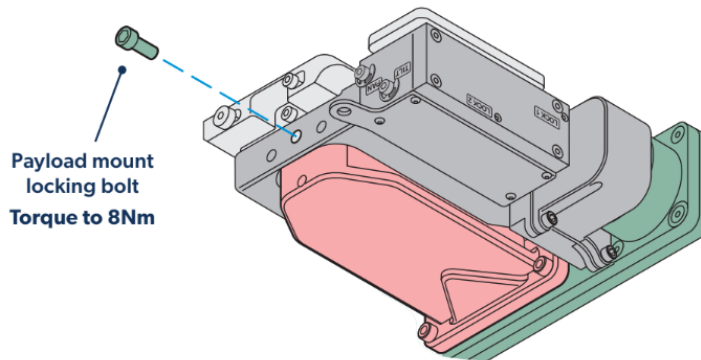
Each payload can exceed 44 lbs (20kg). This procedure should be completed by two people, particularly in exposed conditions.

Requirements:

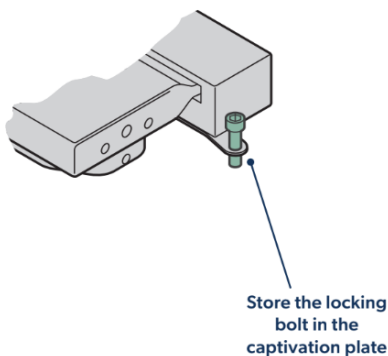
- 6mm hex key to unscrew the bolt

Steps:

1. Isolate the payload from its power supply before attempting to attach or detach payloads.
2. Use a 6 mm hex key to remove the locking bolt from the payload mount.
3. Insert the locking bolt into either of the holes in the payload mount that are adjacent to the central locking hole. Use the 6mm hex key to carefully tighten the bolt so that it presses against the end of the paddle and forces the payload mount to disengage.



4. Carefully remove and store the payload.
5. Store the locking bolt in the captivation plate.



Connecting Cables

The Jaeger system features a single multi-core cable that integrates power, video, and data (including Ethernet). Connect the multi-core cable to the base of the main PT unit of the Jaeger system.



CAUTION

Ensure the cables are properly connected before supplying any power from the PSU to the unit.

Steps:

1. Isolate the payload's main power source by connecting the power cable to a dedicated power source.



IMPORTANT

The length of the connector plus the minimum bend radius of the cable necessitates a minimum of 7.87" (200 mm) space immediately below the PT unit mount.

2. Orientate the MIL spec connector of the main power and control feed so that it aligns with the socket on the underside of the PT unit base.
3. Engage the connector and twist the locking ring clockwise until it clicks fully into place.

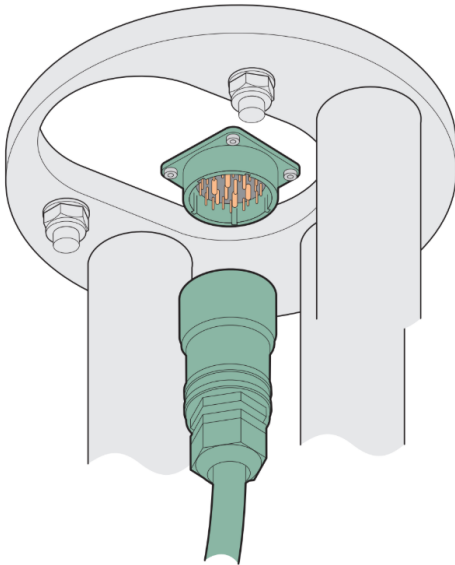


Figure 1: Connecting the power supply connector to the base unit.

Boresighting

The final critical task to set up a Jaeger MK4 system is to align the payloads so they focus on the exact same objects at the same time. This allows operators to switch between payload views without losing track of objects. When the payloads are physically aligned (boresighted) they can track objects at the same time.

Payloads can pan (horizontally) and tilt (vertically), as shown in the image below:

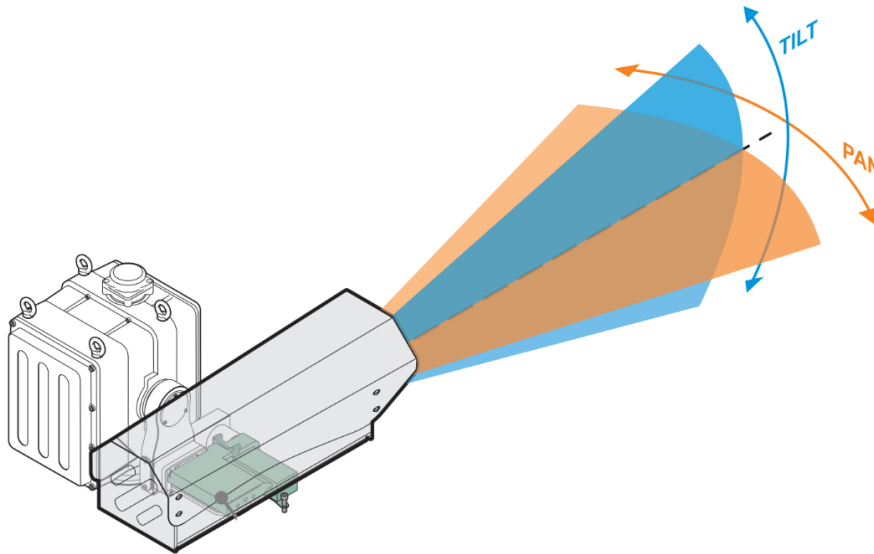


Figure 2: The payloads pan and tilt directions.

The pan/tilt locknuts and adjusters are located under the payload, as shown in the image below:

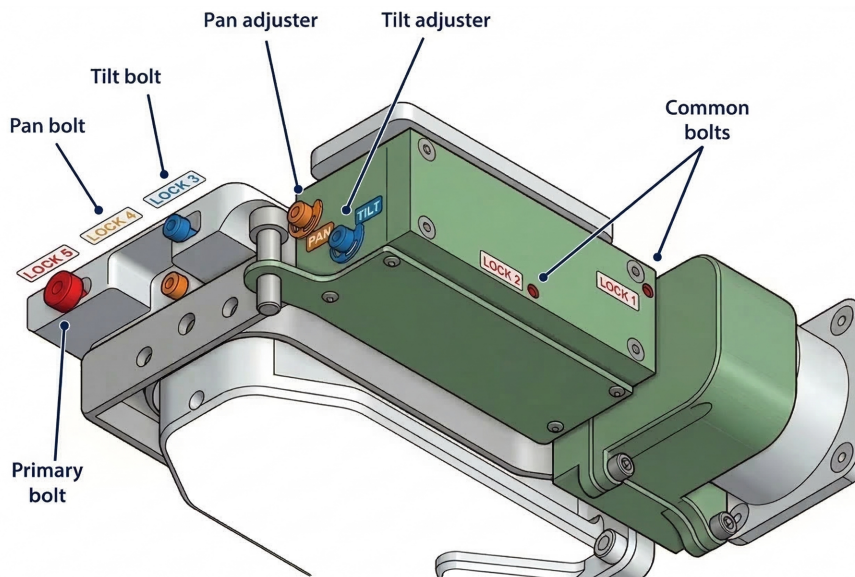


Figure 3: Adjusters and bolts on the bottom of the payload.

Panning

Screw turn	Upper payload	Lower payload
Clockwise	Pan right	Pan left
Counter clockwise	Pan left	Pan right

Tilting

Screw turn	Upper payload	Lower payload
Clockwise	Tilt down	Tilt up
Counter clockwise	Tilt up	Tilt down

Boresighting Payloads

Once all of the payloads are attached and secured onto the tilt arms, you will need to boresight the payloads to align them. To complete this task, the pan/tilt (PT) unit and payloads will need to be operational and you will also need to view the output from both payloads.

The PT adjusters located under the payload mounts allow you to determine the pan and tilt offsets.

Prerequisites:

- Hex key (5mm)

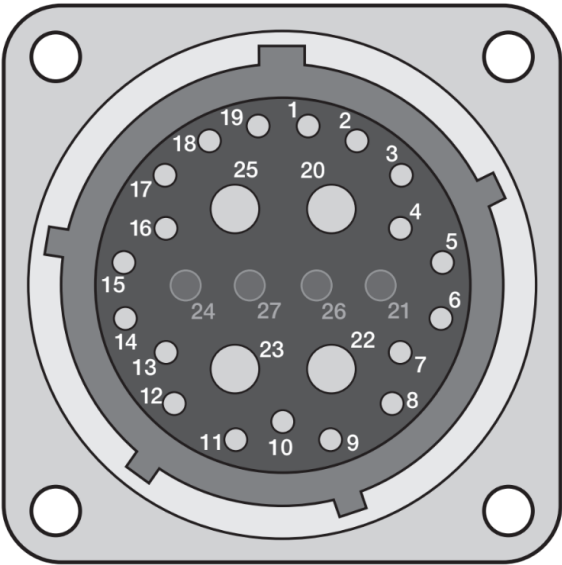
Steps:

1. Ensure the area around the assembly is clear of obstructions and personnel.
2. Use a 5mm hex key to loosen all relevant bolts before starting to adjust the boresight:
 - a. Release the three common bolts.
 - b. Release the pan and/or tilt bolts.
 - c. Turn the associated adjuster screw as you observe the positional change in the payload view.
3. Apply power to the assembly and check that all of the basic functions (pan, tilt, zoom and imaging) are operating and correctly responsive to the controls.
4. Aligning the payloads:
 - a. Zoom the thermal payload to its highest level and focus on a distant object.
 - b. Energize the Laser Illuminator and use its adjustment screws to align it with the center of the thermal image.
 - c. Zoom the daylight payload to its highest level and adjust its mounting screws so that its center aligns perfectly with the thermal image.
5. When the adjustment is correct, torque the pan bolt 4 to 6Nm.
6. Hand tighten the other associated bolt. Do not overtighten.

Once the payloads are boresighted you can verify the alignment in NexOS.

Appendix

Appendix A: Base Connector Pin-out



Pin	Function	Conductor
1	Ethernet B1	Brown
2	Ethernet B2	White/Brown
3	Ethernet B3 (Rx-)	Green
4	Ethernet B4 (Rx+)	White/Green
5	Ethernet B5	Blue
6	Ethernet B6	White/Blue
7	Ethernet B7 (Tx-)	Orange
8	Ethernet B8 (Tx+)	White/Orange
9	Telemetry (D+)	Yellow
10	Telemetry (D-)	Blue
11	Chassis/Earth	Green/Yellow stripe
12	Ethernet A1	Brown
13	Ethernet A2	White/Brown
14	Ethernet A3 (Rx-)	Green

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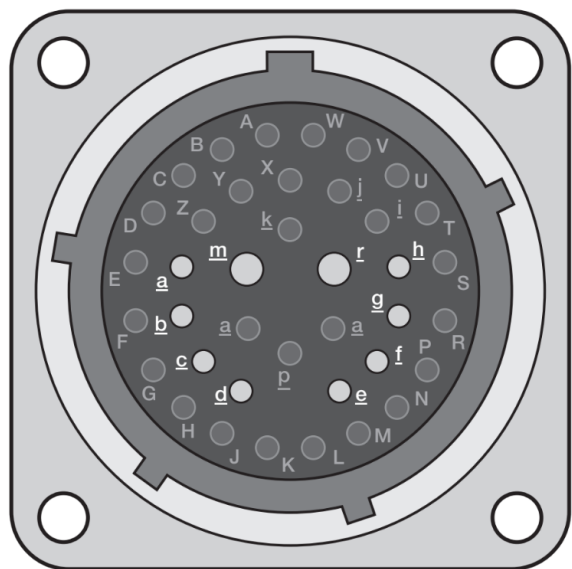
15	Ethernet A4 (Rx+)	White/Green
16	Ethernet A5	Blue
17	Ethernet A6	White/Blue
18	Ethernet A7 (Tx-)	Orange
19	Ethernet A8 (Tx+)	White/Orange
20	PTZ power positive (48VDC)	Red
20	PTZ power positive (48VDC)	Orange
21	N/C	-
22	Power DC (through)	Brown
23	Power DC (through)	Blue
24	N/C	-
25	PTZ power negative (48VDC)	Black
25	PTZ power negative (48VDC)	White
26	N/C	-
27	N/C	-

Appendix B: Payload Side Connector Pin-out



NOTE

Ethernet wiring allocations are based on the TIA-568B standard.

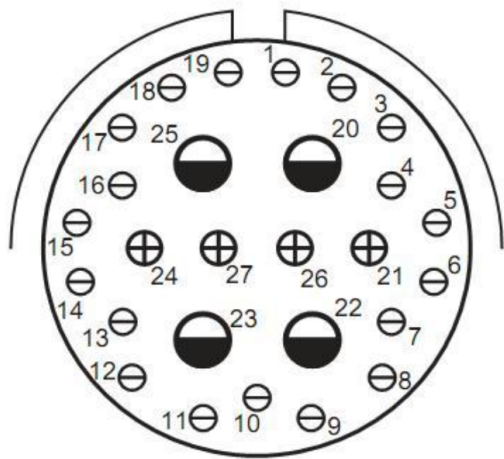


Pin		Function	Conductor
a		Ethernet 1	Brown
b		Ethernet 2	White/Brown
c		Ethernet 3	Green
d		Ethernet 4	White/Green
e		Ethernet 5	Blue
f		Ethernet 6	White/Blue
g		Ethernet 7	Orange
h		Ethernet 8	White/Orange
m		camera power positive	Brown
r		camera power negative	Blue
Chassis	Earth		Green/Yellow

All other contacts: N/C

Appendix C: Physical Connectors

Jaegar Base Connector (IL38K)



Amphenol TV-Series (D38999):

- Base Socket: Amphenol TVP00ZN21-29P
- Cable Connector: Amphenol TV06ZN-21-29SN
- Contact arrangement: 21-29.
- Contacts No.20 and No.25 are Coaxial types for Video transmission.

Contact assignments and conductors (JCMX Cable):

Pin	Function	Conductor
1	Ethernet B 1 (Pass-thru)	(Net2 Blue) Cat5e Brown
2	Ethernet B 2 (Pass-thru)	(Net2 Blue) Cat5e White/Brown
3	Ethernet B 3 (Pass-thru)	(Net2 Blue) Cat5e Green
4	Ethernet B 4 (Pass-thru)	(Net2 Blue) Cat5e White/Green
5	Ethernet B 5 (Pass-thru)	(Net2 Blue) Cat5e Blue
6	Ethernet B 6 (Pass-thru)	(Net2 Blue) Cat5e White/Blue
7	Ethernet B 7 (Pass-thru)	(Net2 Blue) Cat5e Orange
8	Ethernet B 8 (Pass-thru)	(Net2 Blue) Cat5e White/Orange
9	Telemetry (+)	UTP Yellow
10	Telemetry (-)	UTP Blue

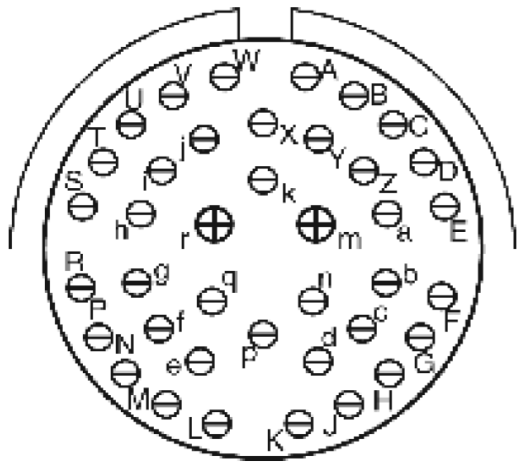
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11	Earth / Chassis	Green/Yellow Stripe
12	Ethernet A 1 (PTZ Data)	(Net1 Grey) Cat5 Brown
13	Ethernet A 2 (PTZ Data)	(Net1 Grey) Cat5 White/Brown
14	Ethernet A 3 (PTZ Data)	(Net1 Grey) Cat5 Green
15	Ethernet A 4 (PTZ Data)	(Net1 Grey) Cat5 White/Green
16	Ethernet A 5 (PTZ Data)	(Net1 Grey) Cat5 Blue
17	Ethernet A 6 (PTZ Data)	(Net1 Grey) Cat5 White/Blue
18	Ethernet A 7 (PTZ Data)	(Net1 Grey) Cat5 Orange
19	Ethernet A 8 (PTZ Data)	(Net1 Grey) Cat5 White/Orange
20	Video 1 (CVBS) (Coax Contact)	Coax 1 (Black)
21	Aux Power DC Positive	Orange
22	Power DC Positive (Through)	Brown
23	Power DC Negative (Through)	Blue
24	Aux Power DC Negative	White
25	Video 2 (Coax Contact)	Coax 2
26	Power Positive (PTZ) 28VDC	Red
27	Power Negative (PTZ) 28VDC	Black

Indicated conductor colors applicable to CA-MIL38K/JCMX cable assemblies.

Available functionality will depend on the installed PT unit and camera configurations.

Side camera Mounting Connector (MIL-D38999 G39)



Amphenol D38999 Series-III/TV

- PTZ Hub Socket: Amphenol D38999/20FG39SN
- Connector on camera: Amphenol D38999/26FG39PN (For attached equipment)
- Contact arrangement: G39 / 21-99 - [G39T]
- Contact “r” is a Coaxial type for Video transmission on HD-SDI models
- Available on limited pan models only

Contact assignments and conductors:

Pin	Function	Note
A	Power Positive	12VDC (4A)
B	Power Negative / Ground	0V (4A)
C	Serial 1 (D -) (INV)	Ti side Camera (RS485) (P1)
D	Serial 1 (D+) (NON)	Ti side Camera (RS485) (P1)
K	Serial 4 (D+)	Aux Comms (IP RS485 +)
L	Serial 4 (D -)	Aux Comms (IP RS485 -)
S	Serial 2 (TMU Rx)	Day side Lens/Cam (RS232) (P2)
T	Serial 2 (TMU Tx)	Day side Lens/Cam (RS232) (P2)
X	Serial 3 (TMU Rx)	Ti side Lens (RS232) (P0)
Y	Serial 3 (TMU Tx)	Ti side Lens (RS232) (P0)
c	Ethernet 1 (Rx-)	TIA-568B Gn 6
d	Ethernet 2 (Rx+)	TIA-568B W/Gn 3

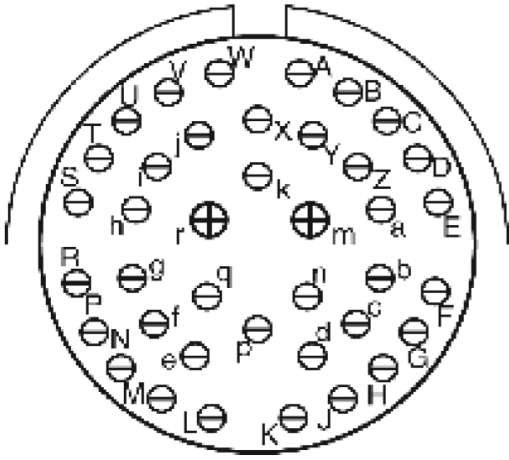
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g	Ethernet 3 (Tx-)	TIA-568B Or 2
h	Ethernet 4 (Tx+)	TIA-568B W/Or 1
i	P2 Comm switcher	(Not Fitted)
j	Return-video Signal	For IP encoder cameras
k	Return-video Ground	For IP encoder cameras
n	Video CVBS Signal	-
p	Wiper Trigger	-
q	Video CVBS Ground	-
r*	Video HD-SDi	Coaxial contact (Not Fitted to all types)

* Wide/Coaxial contact.

Contact identity letters are case sensitive.

Top camera Mounting Connector (MIL-D38999 G39)



Amphenol D38999 Series-III/TV:

- Top Mounting Socket: Amphenol D38999/20FG39SN
- Connector on camera: Amphenol D38999/26FG39PN (For attached equipment)
- Contact arrangement: G39 / 21-99 - [G39A]
- Connections pass through directly to base connector

Contact assignments and conductors:

Pin	Function	Conductor	Base Connector (MIL38K)	RJ45 (TIA)
A	Ethernet 1	Cat5e Brown	1	8
B	Ethernet 2	Cat5e White/Brown	2	7
C	Ethernet 3	Cat5e Green	3	6
D	Ethernet 4	Cat5e White/Green	4	3
E	Ethernet 5	Cat5e Blue	5	4
F	Ethernet 6	Cat5e White/Blue	6	5
G	Ethernet 7	Cat5e Orange	7	2
H	Ethernet 8	Cat5e White/Orange	8	1
m	camera Power Positive	Power Brown	22	-
r	camera Power Negative	Power Blue (Alternate: Black)	23	-
	Earth (Chassis)	Power Green/yellow (Alternate: White)	11	-

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Contact identity letters are case sensitive.

More Information & Support

For additional product documentation and software and firmware upgrades, visit support.pelco.com.

Technical Support

Contact Silent Sentinel Technical Support at support.pelco.com/s/contactsupport.