

MATRIX 320™ C-MOUNT

MOUNTING INSTRUCTIONS

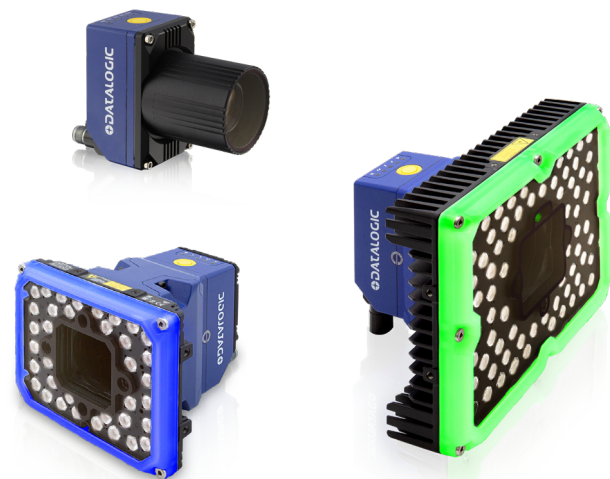



Image Based Industrial Reader

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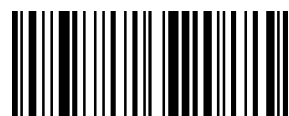
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821007762 (Rev. C) April 2022

Mounting instructions for Matrix 320 C-Mount without illuminator



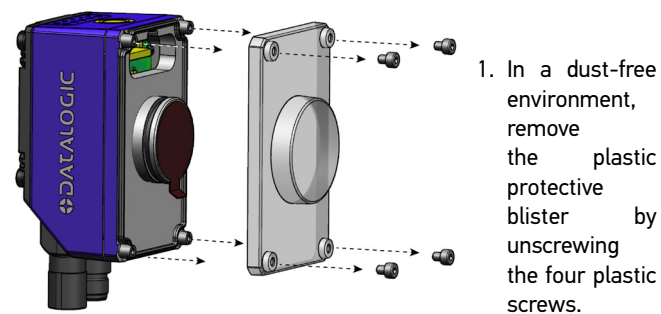
CAUTION: Before starting the procedure, make sure the reader is powered off.



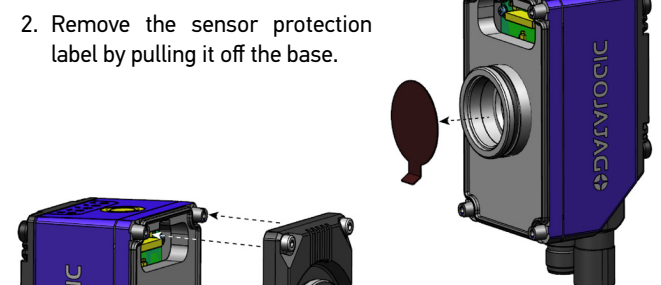
CAUTION: Do not touch the sensor aperture lens glass, or lens cover glass. These areas must be kept clean. Avoid any abrasive substances that might damage these surfaces during cleaning.



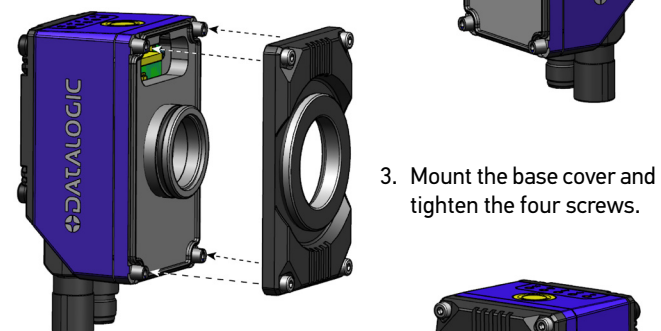
CAUTION: Observe ESD precautions when installing or removing a filter, cover, illuminator or other accessories.



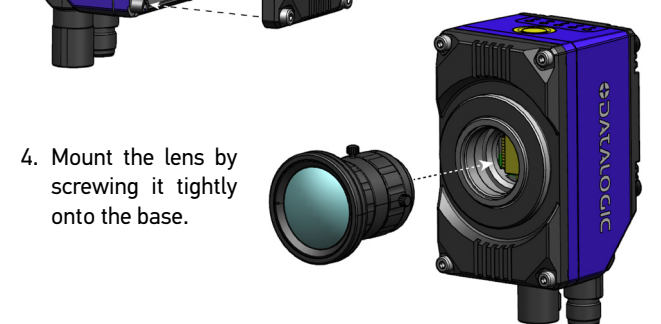
1. In a dust-free environment, remove the plastic protective blister by unscrewing the four plastic screws.



2. Remove the sensor protection label by pulling it off the base.



3. Mount the base cover and tighten the four screws.



4. Mount the lens by screwing it tightly onto the base.



5. Mount the lens cover onto the base cover.

6. Mount the heat sink (see "Heat Sink mounting instructions").

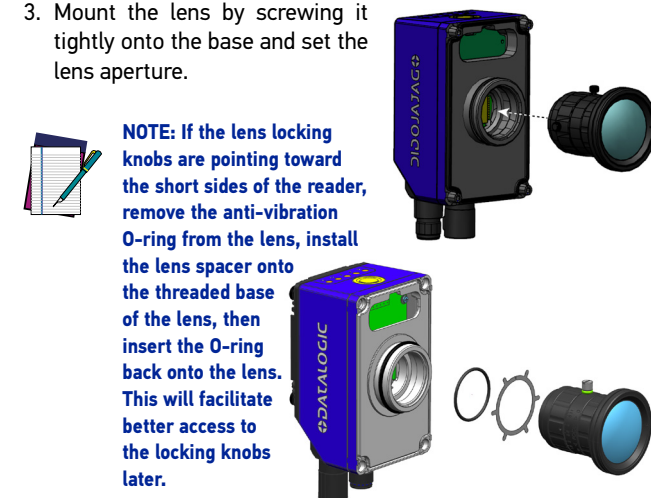
Mounting instructions for Matrix 320 C-Mount with 36 LED or 72 LED illuminator

Follow STEP 1 and STEP 2 under "Mounting instructions for Matrix 320 C-Mount without illuminator", then proceed as follows.

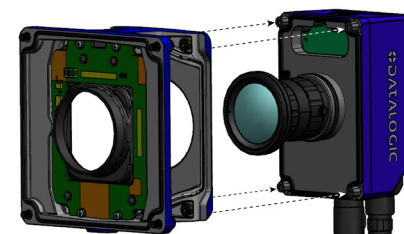
3. Mount the lens by screwing it tightly onto the base and set the lens aperture.



NOTE: If the lens locking knobs are pointing toward the short sides of the reader, remove the anti-vibration O-ring from the lens, install the lens spacer onto the threaded base of the lens, then insert the O-ring back onto the lens. This will facilitate better access to the locking knobs later.



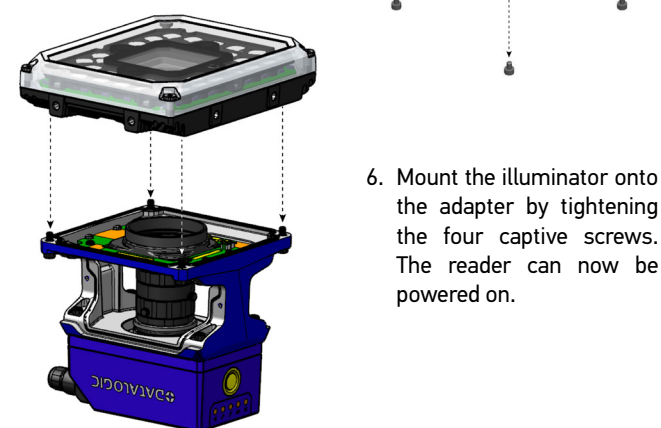
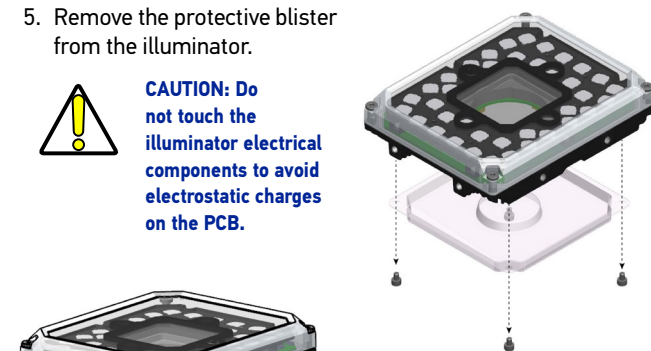
4. Mount the adapter onto the base by tightening the four captive screws.



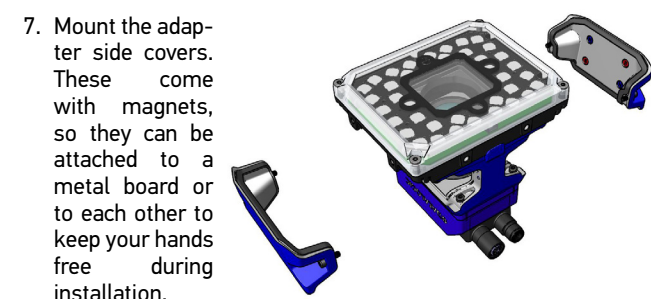
5. Remove the protective blister from the illuminator.



CAUTION: Do not touch the illuminator electrical components to avoid electrostatic charges on the PCB.



6. Mount the illuminator onto the adapter by tightening the four captive screws. The reader can now be powered on.

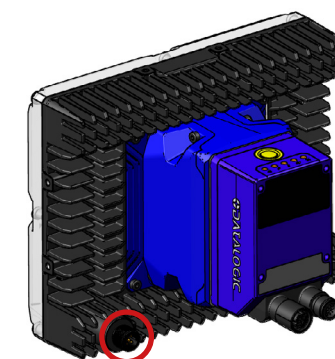


7. Mount the adapter side covers. These come with magnets, so they can be attached to a metal board or to each other to keep your hands free during installation.

8. Mount the heat sink (see "Heat Sink mounting instructions").



72 LED ILLUMINATOR ONLY: after completing the mounting procedure, connect the power cable to the illuminator connector.



Available cables

Cable	Order no.
CAB-LP-03 LIGHTING POWER 3M	93A050033
CAB-LP-05 LIGHTING POWER 5M	93A050037



NOTE: Most lenses come with a green round sticker to identify the focus locking knob. The two knobs differ in the dimension of the O-ring, designed to fit a specific adjustment ring, and are not interchangeable. Make sure that the knob with the green O-ring is always placed in the position identified by the green sticker. Once you set the desired diaphragm and focus through the adjustment rings, fix the positions by locking the corresponding knobs.



Heat Sink mounting instructions

When to mount the heat sink

The heat sink provided in the package is to be used as an adapter for rotating brackets and for heat dissipation. Its use is recommended especially in high ambient temperature applications. Refer to the Product Reference Guide for more information.

How to mount the heat sink

The Matrix 320 package contains the following materials to mount the heat sink:

- 1 heat sink
- 4 black screws
- 4 black washers

To install the heat sink on the reader, please follow this procedure:

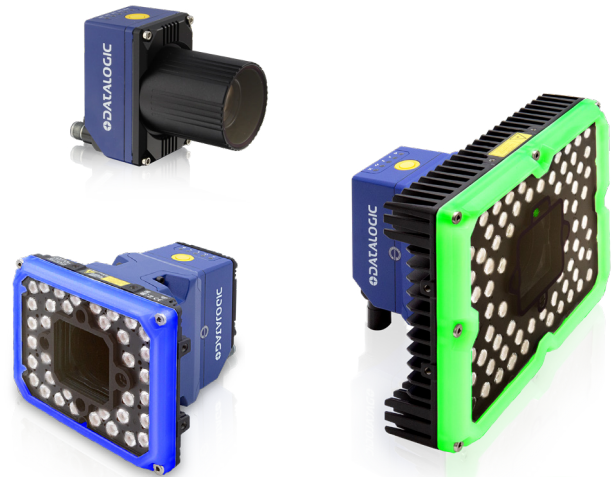
1. Insert the screws and washers through the heat sink and thread them loosely into the Matrix 320 reader, as shown in the figure below.
2. Tighten the screws.



NOTE: In case it ever becomes necessary to ship the Illuminator+Adapter+Base assembly back to Datalogic, the packaging used for the shipment must be suitable to protect the product and avoid damage during transport.

MATRIX 320™ C-MOUNT


安装说明

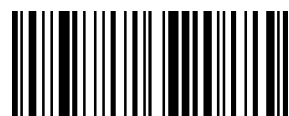


基于图像的工业阅读器

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将鼠标悬停在“支持和服务”菜单上，可访问“服务”和“技术支持”。



821007762 (版本 C) 2022 年 4 月

不带照明器的 Matrix 320 C-Mount 的安装说明



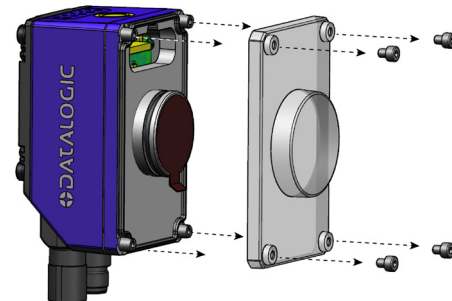
注意：在开始安装之前，请确保读取器已断电。



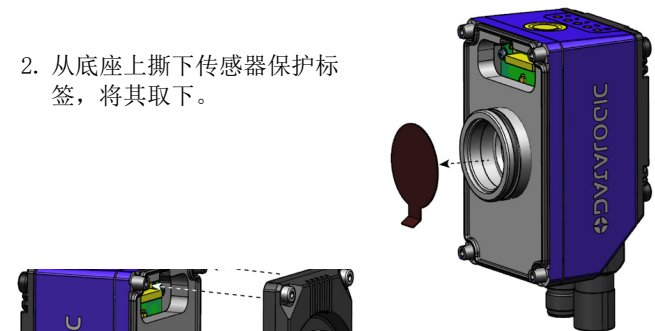
注意：请勿触摸传感器光圈镜头玻璃或镜头盖玻璃。这些区域必须保持清洁。避免在清洁过程中使用任何可能损坏这些表面的磨蚀性物质。



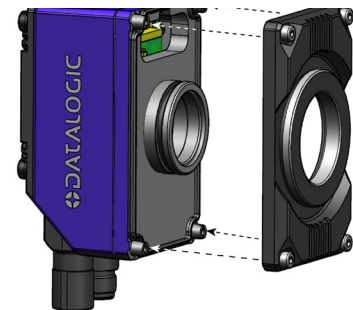
注意：安装或拆卸滤光镜、保护盖、照明器或其他附件时，请遵守静电放电预防措施。



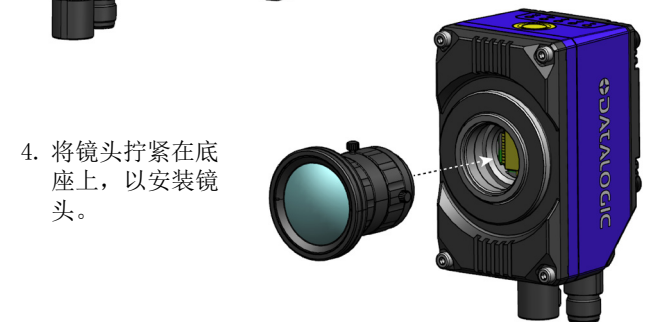
1. 在无尘环境中，拧下四颗塑料螺钉，取下塑料保护泡罩。



2. 从底座上撕下传感器保护标签，将其取下。

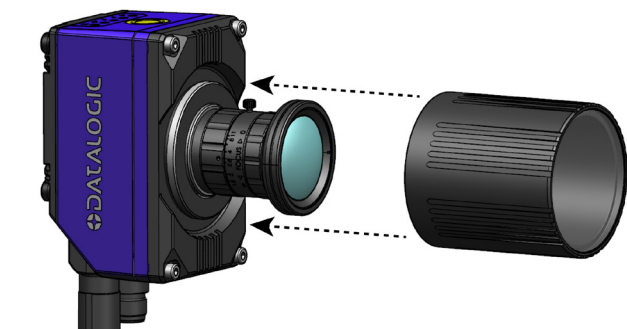


3. 安装底盖并拧紧四颗螺钉。



4. 将镜头拧紧在底座上，以安装镜头。

5. 将镜头盖安装到底盖上。



6. 安装散热器（请参阅“散热器安装说明”）。

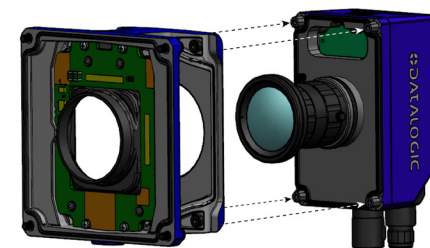
带有 36个LED或72个LED 照明器的 Matrix 320 C-Mount 的安装说明

按照“不带照明器的 Matrix 320 C-Mount 的安装说明”中的步骤1和步骤2进行操作，然后按以下步骤进行。

3. 将镜头紧紧拧在底座上进行安装，并设置镜头光圈。



注意：如果镜头锁定旋钮指向阅读器的短边，请从镜头上取下防震O型环，将镜头垫片安装到镜头的螺纹底座上，然后将O型环插回镜头上。这将有利于以后更好地接触到锁定旋钮。

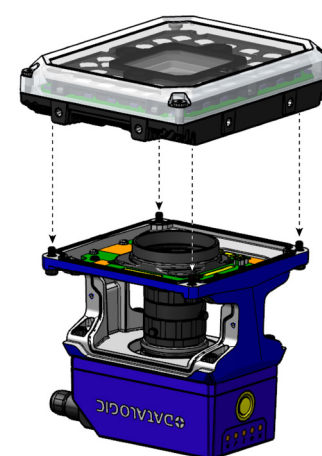


4. 拧紧四颗防松脱螺钉，将适配器安装到底座上。

5. 从照明器上取下保护泡罩。

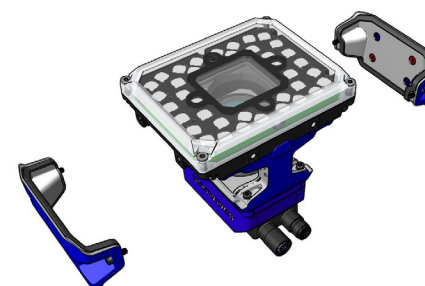


注意：请勿触摸照明器电子元件，以免在PCB上产生静电荷。



6. 拧紧四颗防松脱螺钉，将照明器安装到适配器上。现在可以接通读取器的电源。

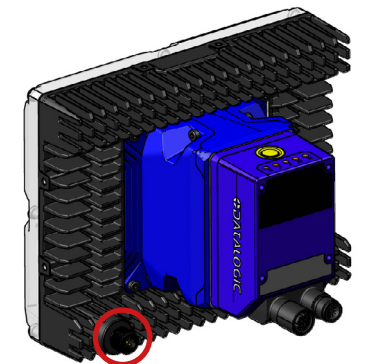
7. 安装适配器侧盖。侧盖带有磁铁，因此可以附着到金属板上或相互附着，以便在安装过程中腾出双手。



8. 安装散热器（请参阅“散热器安装说明”）。



仅适用于72个LED照明器：完成安装程序后，将电源线连接到照明器的连接器。



可用的电缆

电缆	订购号
CAB-LP-03 LIGHTING POWER 3M	93A050033
CAB-LP-05 LIGHTING POWER 5M	93A050037



注意：大多数镜头都有一个绿色的圆形贴纸来识别聚焦锁定旋钮。这两个旋钮在O型圈尺寸上有所不同，是为配合特定的调整环而设计的，不能互换。请确保带有绿色O型圈的旋钮始终放在绿色贴纸所标识的位置上。一旦你通过调节环设置了所需的光圈和焦距，通过锁定相应的旋钮来固定位置。



散热器安装说明

何时安装散热器

包装中随附的散热器用作旋转支架的适配器并进行散热。特别推荐在高环境温度应用场合中使用。有关更多信息，请参阅《产品参考指南》。

如何安装散热器

Matrix 320 包装中包含以下用于安装散热器的材料：

- 1 个散热器
- 4 颗黑色螺钉
- 4 个黑色垫圈

要将散热器安装在读取器上，请遵照以下步骤：

1. 将螺钉和垫圈穿过散热器，将其拧入 Matrix 320 读取器，但不要拧紧，如下图所示。
2. 拧紧螺钉。



注释：如需将照明器 + 适配器 + 底座总成运回 Datalogic，运输所用的包装必须可以妥善保护产品并避免在运输过程中造成损坏。