

MIRI Target Acquisition Overview

The JWST [Mid-Infrared Instrument \(MIRI\)](#) provides target acquisition (TA) capabilities for the [low-resolution spectroscopy](#), [medium-resolution spectroscopy](#), and [coronagraphic imaging](#) modes.

Target acquisition (TA) is a procedure that centroids a source and places it accurately within an aperture, region of interest (ROI), or [subarray](#). The filters available for MIRI TA are F560W, F1000W, F1500W and FND. TA procedures are discussed in the context of the observatory in memos and reports by Gordon & Meixner (2008), Meixner et al. (2006), Nelan et al. (2005), and Meixner et al. (2004).

TA procedures within the [Astronomer's Proposal Tool \(APT\)](#) are available for:

- [Low-resolution spectroscopy](#)
- [Medium-resolution spectroscopy](#)
- [Coronagraphic imaging](#)
- [Imaging](#)

References

[Gordon, K. & Meixner, M., 2008, JWST-STScI-001407 \(PDF\)](#)

Mid-InfraRed Instrument (MIRI) Target Acquisition Strategies and Use Cases

[Gordon, K., 2008, JWST-STScI-001347 \(PDF\)](#)

Mid-Infrared Instrument (MIRI) Low Resolution Target Acquisition for Faint Sources

Meixner, M. et al., 2004, STScI-JWST-TM-2004-0018A

Mid-Infrared Instrument (MIRI) Target Acquisition Requirements and Strategies

Nelan, E. et al., 2005, STScI-JWST-R-2005-0001

JWST Science Instrument Target Acquisition Concepts

[JWST technical documents](#)