Thermal Camera Support

ArcGIS Drone2Map and ArcGIS Reality for ArcGIS Pro extension support many thermal camera models. The two requirements for processing are:

- The presence of the following FLIR metadata tags:
  - L"PlanckR1", L"PlanckB", L"PlanckF", L"PlanckO", L"PlanckR2", L"Emissivity", L"ObjectDistance", L"ReflectedApparentTemperature", L"AtmosphericTemperature", L"IRWindowTemperature", L"IRWindowTransmission", L"RelativeHumidity", L"AtmosphericTransAlpha1", L"AtmosphericTransAlpha2", L"AtmosphericTransBeta1", L"AtmosphericTransBeta2", L"AtmosphericTransX"
- An existing pixel to thermal value calculation

The camera manufacturer may need to be contacted to verify what pixel to thermal value calculation they use. To request support be added for a new thermal camera model, you can email this information to the team directly: Drone2Map@esri.com

Camera Model	Release	Notes
General FLIR camera support	Drone2Map 2023.1, Pro 3.1	FLIR thermal cameras that meet the requirements above.
DJI Dock 2	Drone2Map 2024.1, Pro 3.3	Requires optional DJI thermal package install.
DJI Zenmuse H20N	Drone2Map 2024.1, Pro 3.3	Requires optional DJI thermal package install.
DJI Zenmuse H20T	Drone2Map 2024.1, Pro 3.3	Requires optional DJI thermal package install.
DJI Matrice 30T	Drone2Map 2024.1, Pro 3.3	Requires optional DJI thermal package install.
DJI Mavic 2 Enterprise Advanced	Drone2Map 2024.1, Pro 3.3	Requires optional DJI thermal package install.
DJI Mavic 3 Enterprise	Drone2Map 2024.1, Pro 3.3	Requires optional DJI thermal package install.
DJI Dock 3	Drone2Map 2026.1, Pro 3.7	Requires optional DJI thermal package install.
DJI Zenmuse H30	Drone2Map 2026.1, Pro 3.7	Requires optional DJI thermal package install.
DJI Zenmuse XT S	Drone2Map 2026.1, Pro 3.7	Requires optional DJI thermal package install.
DJI Matrice 4	Drone2Map 2026.1, Pro 3.7	Requires optional DJI thermal package install.