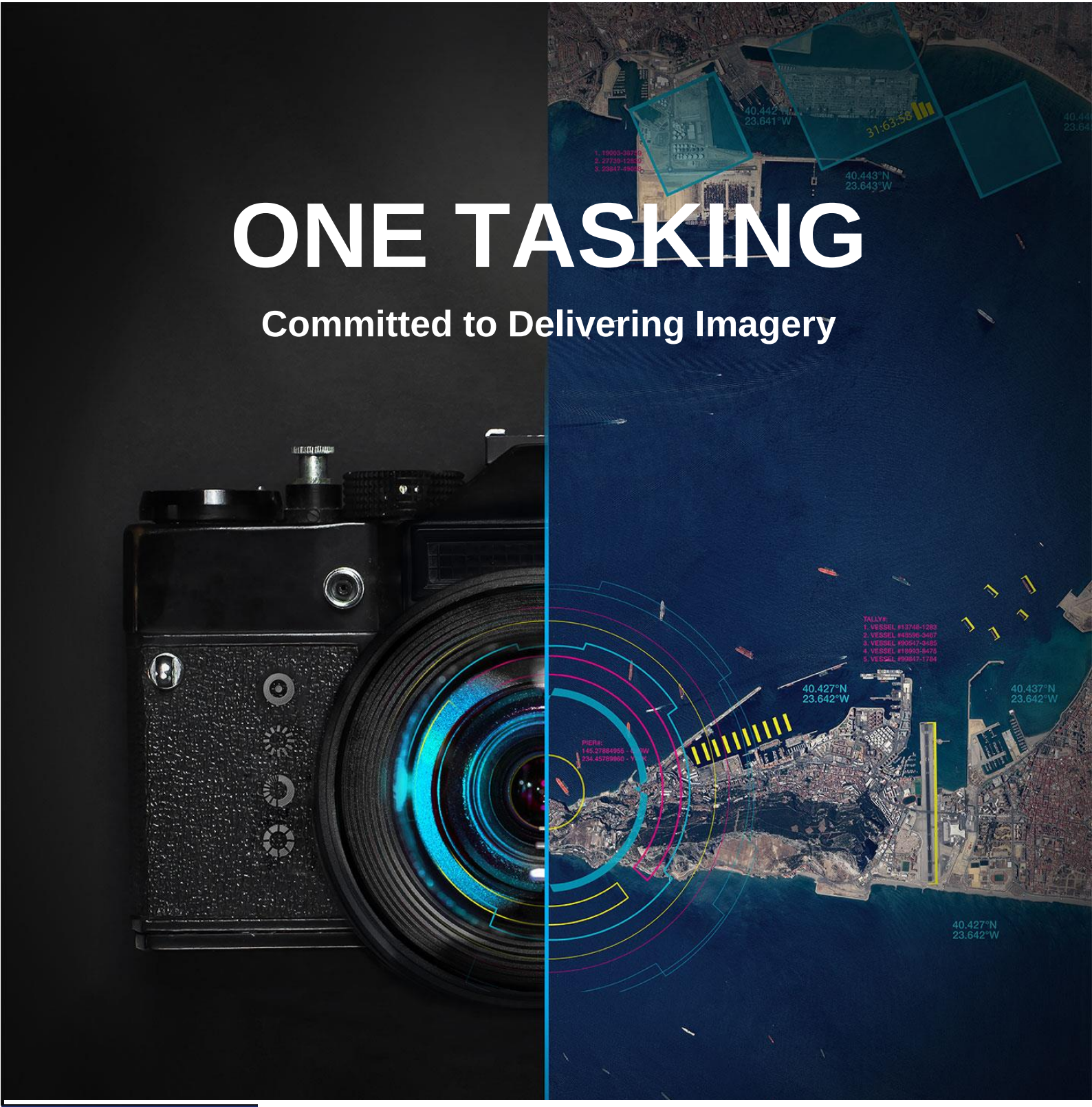


ONE TASKING

Technical specifications for Pléiades Neo

September 2021

AIRBUS

Get Information When You Need It

Commissioning a satellite and obtaining the imagery you requested, exactly when you need it, is risk-free, fast and incredibly easy.

Airbus, the first satellite-tasking services provider, provides direct access to the world's most freshest satellite imagery, thanks to One Tasking.

With One Tasking, we set an unprecedented commitment to deliver new imagery collections when and where you need them[1], revolutionising the satellite imagery market.

A unique satellite constellation, unrivalled tasking capabilities and world-class tasking experts…

Our constellation showcases optical and radar satellites, an extensive range of resolutions, acquisition modes and intraday revisit rates, as well as unrivalled tasking capabilities.

You can place your tailored imagery request directly from the OneAtlas platform, or through our dedicated Customer Service Team. Our tasking experts ensure we acquire the right image for your project.

From the highest priority requests to the largest area coverage, One Tasking's unrivalled acquisition success rate ensures you will receive the imagery you need, precisely when you need it.

Key Benefits

- Best choice for maximising the success of your collection campaign, exactly when and where you need it
- Access to all our flexible and complementary sensors
- Superior availability for ultra-fast delivery
- Streamlined offer, to lighten the ordering process for all satellites and sales channels
- 24/7 access

[1] Subject to normal/appropriate operating conditions.

Content

1 Offer Description

1.1 One Tasking Overview

From the largest medium-term coverage through to the most urgent requests, frequent passes or repeated monitoring, we commit to delivering the right information at the right time, thanks to our One Tasking options.

<table>
<tr><th></th><th>ONE DAY</th><th colspan="2">ONE NOW</th><th>ONE PLAN</th></tr>
<tr><td>Choose the best solution for your need</td><td>Choose your acquisition day</td><td colspan="2">Obtain the information you need in the shortest timeframe</td><td>Obtain qualified coverage within an agreed timeframe</td></tr>
<tr><td rowspan="3"></td><td rowspan="3">When you need imagery on a specific day, our satellites can be tasked with the highest priority to deliver the insight you need. 24 hours before your acquisition date, you receive a weather forecast to let you confirm, postpone or cancel your request at no cost.</td><td colspan="2">When immediate imagery is required, our satellites can be tasked to deliver valuable insights in the shortest possible timeframe.
There are two options available for you to choose from:</td><td rowspan="3">You select your timeframes, dates and preferred acquisition parameters – we ensure you receive the right qualified coverage, perfectly matching your criteria.</td></tr>
<tr><td>ONE NOW</td><td>ONE NOW WEATHER</td></tr>
<tr><td>Intensive acquisitions of the area with up to three acquisitions resulting in three deliveries in the shortest possible timeframe. All acquisitions are delivered regardless of the cloud cover.</td><td>High priority collections taking into account weather forecasts: only the validated coverage is delivered.</td></tr>
<tr><td>Timeframe</td><td>Selected day</td><td>The smallest period needed to guarantee three acquisitions, one attempt per day within seven days – additional acquisitions are made until cloud cover rate reaches 10% or that the customer decides to end the tasking</td><td>The smallest period needed to secure a good image, ≤7 days*.

*By default. Possibility to choose from 3 to 14 days.</td><td>Customer selected.
≥8 days.</td></tr>
<tr><td>Cloud Cover</td><td>Not applicable</td><td colspan="2">· ≤10% by default
· Possibility to select ≤20% or ≤30% to increase acquisition opportunities and delivery time.</td><td>· ≤10% by default

· ≤5% with uplift</td></tr>
<tr><td>Min AOI</td><td colspan="4">• Pléiades Neo: 100 km²</td></tr>
<tr><td>Max AOI</td><td colspan="3">· Pléiades Neo: 14 km EW x 28 km NS
· Bigger areas are subject to feasibility study.</td><td>· N/A
· Large areas are subject to feasibility study.</td></tr>
<tr><td>Acquisition Mode</td><td colspan="4">· Mono by default.
· Stereo and Tristereo subject to feasibility study.</td></tr>
<tr><td>Incidence Angle*</td><td colspan="3">· 0-30° by default
· (≤20° or ≤50° on customer selection.
Reducing the incidence angles might reduce the acquisition opportunities)</td><td>· 0-30° by default

· Or customer selected.</td></tr>
<tr><td>B/H</td><td colspan="4">Customer selected for all options or per default: Stereo 0.4–0.7 /Tristereo 0.2–0.35 between each pair.</td></tr>
<tr><td>Service Level</td><td>· Premium</td><td colspan="2">· Premium</td><td>· Regular</td></tr>
</table>

* The official way to display angles in Airbus' offering is based on the incidence angle. This is applicable to all documents and ordering forms/tools. For customers requesting viewing angle conversion, a simple tool which enables dynamic conversion has been created on our website: https://www.intelligence-airbusds.com/en/8719-angle-conversion.

1.2 Monitor your Area of Interest (AOI)

Monitor your AOI by planning regular or repeated acquisitions, within the same order request, by selecting multiple timeframes. Same acquisition options and parameters apply to all occurrences.

1.3 Feasibility Study

The feasibility study is a diagnosis performed by our tasking experts in order to organise the acquisition plan and estimate the confidence in covering the Area of Interest within the defined acquisition period and parameters.

To assess feasibility analysis, we ask the customer: **where, by when** and **for which application**. With this information, the tasking team issues a tasking proposal that includes advice and recommendations.

- **OneDay** feasibility study mainly focuses on the accessibility of the entire area on the requested day, with an indication of the incidence angle. Through OneAtlas, an option is given to filter access for acquisitions with different incidence angles, providing the customer with the opportunity to select a different date if the access on the given day for the reduced angle is not available.

- **OneNow**:

    - **OneNow** feasibility study mainly focuses on the first three days when the area can be entirely collected after the desired start date, with an indication of the incidence angle. For OneNow orders placed through OneAtlas, it is possible to filter access for acquisitions with different incidence angles – thus displaying the three new acquisition days able to entirely cover the AOI with the reduced angle. No choice is given on the acquisition days.

    - **OneNow**$^{\text{WEATHER}}$ feasibility studies mainly focus on **the desired timeframe (7 days maximum), compared to the location, the size, the angle and cloud constraints**. No choice is given on the acquisition days.

- **OnePlan** feasibility studies mainly focus on **the desired timeframe compared to the location, size, angle and cloud constraints**. Depending on all requested programming parameters, the Tasking Manager issues a diagnosis (OnePlan, OnePlan$^{\text{PRO}}$) to the customer and proposes alternatives if necessary, in order to increase the chances of success.

- **OnePlan**: if the request includes standard tasking parameters with standard tasking priority level or if our tasking experts suggest standard acquisition parameters.

- **OnePlan^{PRO}**: if the tasking is related to specific tasking parameters or if it is necessary to apply higher tasking priority level, or need advanced professional tasking management from our experts to successfully cover the area.

- In the event of highly restrictive requested tasking parameters, our tasking experts will suggest alternative scenarios.

When an order is submitted via OneAtlas and the automatic diagnosis results in standard acquisition, the tasking is activated automatically and the new collection is delivered (also automatically) following acquisitions.

However, if there are any particular tasking parameters and the order cannot be placed automatically, the tasking team will confirm the feasibility and issue a tasking proposal. The tasking is activated once the customer confirms their order.

1.4 Multi-polygon AOIs

Multi-polygon orders are possible. However, each polygon creates an order. For example, a shape file featuring four polygons will be treated as four separate orders. Each order has its own service level agreement (SLA). The polygons are also independent for the feasibility study, as well as the tasking follow-up.

1.5 Regular and Premium Services

Two service levels are offered in the event of a new acquisition order.

Included Services	Premium Service OneDay, OneNow	Regular Service OnePlan
Ordering	24/7, 365 days a year	Monday–Friday from 07:00–16:00 (UTC) through Customer Care or 24/7 through OneAtlas.
Response Time	<1 hour from receipt of customer request (feasibility study included depending on the request)	<24 hours from receipt of customer request (within 07:00–16:00UTC working hours)
Customer Modification/ Cancellation After Order Confirmation	Cancellation and modifications are possible, free of charge, up to 12 hours before the start date	Cancellation and modifications are possible up to 24h before the start date. In the event of a cancellation after the acquisition start, all qualified images will be invoiced
Tracked Progress	Automatic notification for: • Order confirmation • Order completion • Planned (or missing) acquisitions + expected image download time • Systematic acquisition notification + estimated delivery time (+2 hours) • Delivery notification	Automatic notification for: • Order confirmation • Order completion • Each acquisition • Acquisition notification when matching the agreed cloud cover threshold • Weekly summary • End of acquisitions • Delivery notification
Delivery Lead-Time	Rush delivery: • 12 hours after the image is available in the Airbus catalogue and 24/7/365 • Average performance: 74 minutes	Standard delivery per default (rush delivery optional) • Turnaround is 24 hours after the image is available in Airbus catalogue during working hours, i.e. from Monday– Friday from 07:00–16:00 (UTC) • Average performance: 12h

1.6 Delivery Time

- Standard delivery turnaround is 24 hours[2] from image catalogue availability

In order to shorten as much as possible our delivery times, no systematic image quality control is performed on our standard orthoimages - whether they come from archive imagery or new collections.

For online orders, customers are informed that an image with an increased viewing angle (>20°) may impact the overall geometry of the final product. In case of orders related to orthoimages, it is

[2] for data archived in Toulouse or Kiruna

recommended to select an image with less than 20° viewing angle. Nevertheless, the option is given to customers who need a quality control to be performed on their imagery.

- Rush delivery is 12 hours[3], 24/7/365, from image catalogue availability

  The rush delivery option is included free of charge with OneDay and OneNow; it is optional and on request for OnePlan.

  It is available:

  - for all geometric processing options: Primary, Projected and Standard Ortho processing levels;
  - for all radiometric processing options: Basic, Reflectance and Display;
  - in DIMAP;
  - in GeoTIFF or in JPEG 2000;
  - and only with FTP delivery.

Because of customers' emergency needs and in order to deliver the image at the earliest possible time, rush deliveries also skip quality control, manual cloud cover correction and Refined Attitude Data integration.

[3] for data archived in Toulouse or Kiruna

2 One Tasking Options Detailed

2.1 OneDay

Choose your acquisition day

OneDay allows you to task the satellites on a specific day. The satellite resource will be booked for your requested date and will collect your area with the highest priority. The new acquisitions will be delivered to you regardless of cloud cover. However, the OneDay tasking option for a specific chosen day is now risk-free: 24 hours before your acquisition date, you will receive a weather forecast to let you confirm, postpone or cancel your request at no cost. This option is especially useful when you need an image for a specific event, for example, to provide intelligence to a security agency which is planning a military operation on a particular day.

Timeframe	Selected day
Number of Acquisitions	1
Start Date	Any day, during the upcoming year. Same day order/acquisitions can be placed – if feasible, or the day after.
Cloud Cover	Not applicable
Minimum Order Size	100 km²
Max AOI Bounding Box	14 km EW x 28 km NS Bigger areas are subject to feasibility study.
Acquisition Mode	Mono by default. Stereo or Tristereo subject to feasibility study.
Incidence Angle*	0-52° ≤20° or ≤30° on customer selection. Be aware that reducing the incidence angles might reduce the acquisition opportunities
B/H	From 0.2–0.8 By default: 0.4–0.7 for Stereo 0.2–0.35 between each Tristereo pair
Service Level	Premium
Delivery Lead-Time	Rush

Weather Forecast Alert

A weather forecast alert is sent 24 hours before the acquisition. Customer can postpone or cancel the request at no cost.

In the event of the acquisition not being completed on the requested day, the order is cancelled at no cost.

All images collected on the requested day are delivered and invoiced.

2.2 OneNow

Access useful information in an instant.

When immediate imagery is required, our satellites can be tasked to deliver valuable insights in the shortest possible timeframe:

Depending on the customer's needs, two possibilities are available: **OneNow** and **OneNow** WEATHER

- Thanks to **OneNow**, we ensure up to three acquisitions resulting in three deliveries in the shortest possible timeframe. All acquisitions are delivered regardless of the cloud cover. The tasking ends as soon as a good image is acquired.

  The main objective is to deliver the images as soon as they are collected in order to provide our customers with fresh and detailed information on what is happening on the ground.

  In the event of poor weather conditions, we continue collecting imagery over your area until successful data is acquired.

- **OneNow** WEATHER has been specifically designed for customers who urgently only need one validated coverage of their area. This option still consists of acquiring the area at the soonest availability with the highest satellite tasking priority, but also takes into account the weather forecasts and statistics: satellite attempts are thus made only when the cloud cover is expected to match with the expected validation criteria. Only the validated coverage is delivered to the customer.
  In the event of poor weather conditions and upon customer's decision, we extend the survey period and continue to collect the area until it is successfully covered.

2.2. 1. OneNow

Timeframe	The shortest period needed to secure three acquisitions, ≤7 days; the timeframe may be extended if additional attempts are necessary.
Number of Acquisitions	Up to three acquisitions. In case of poor weather conditions, additional acquisitions can be made until cloud cover is reached and up to 14 days or the customer decides to end the tasking.
Start Date	From selected starting day, during the upcoming year. Same day order/acquisitions can be placed – if feasible, or the day after. Otherwise, as soon as an opportunity comes along within the ≤7-day timeframe.
Cloud Cover	≤10% by default. Possibility to select ≤20% or ≤30% to increase acquisition opportunities and delivery time.
Minimum Order Size	Pléiades Neo: 100 km²
Max AOI Bounding Box	Pléiades Neo: 14 km EW x 28 km NS Bigger areas are subject to feasibility study[4].
Acquisition Mode	Mono by default. Stereo and Tristereo subject to feasibility study.
Incidence Angle*	0-52° (≤20° or ≤30° on customer selection. Be aware that reducing the incidence angles might reduce the acquisition opportunities)
B/H	From 0.2–0.8 By default: 0.4–0.7 for Stereo 0.2–0.35 between each Tristereo pair
Service Level	Premium
Delivery Lead-Time	Rush

The tasking ends as soon as a validated image is acquired. All acquisitions are delivered regardless of the cloud cover.

In the event of poor weather conditions and on request at order placement, we can keep collecting imagery over your area, on top of the initial three acquisitions. Additional acquisitions stop after successful data is acquired and up to 14 days, or the customer decides to end the tasking. All additional acquisitions are invoiced.

[4] With our commitment to delivering useful results, larger areas are subject to a feasibility study before acquisition of imagery. In this instance, there is no commitment to collect imagery of the complete area three times. The main objective is to collect the area as soon as possible.

In the event of the acquisitions not being completed on time (up to three acquisitions within 7 days), the customer is given the choice of:

- an extension of the acquisition period, or
- if one acquisition is missing and the other two do not validate the tasking, then the two collections are delivered for free.

2.2. 2. OneNow[WEATHER]

At Airbus, we make sure we develop our services to enhance our operations and our customers' satisfaction. OneNow [WEATHER] is a new option and evolution of the best-seller OneNow.

With OneNow[WEATHER], we combine increased weather-intelligence and high priority, to deliver the right image in the shortest possible timeframe. We will task our satellites over your AOI when the weather is good enough to ensure a cloud-free image[5], as many times as needed to provide the operable information of what is happening on the ground.

Timeframe	The shortest period to acquire a good image, between 3 and 14 days.
Number of Acquisitions	The validated coverage only
Start Date	From selected starting day, during the upcoming year. Same day order/acquisitions can be placed – if feasible, Otherwise, as soon as an opportunity (weather included) comes along within the 3 to 14-day timeframe.
Cloud Cover	≤10% by default. Possibility to select ≤20% or ≤30% to increase acquisition opportunities and delivery time.
Minimum Order Size	100 km²
Max AOI Bounding Box	Pléiades Neo: 14 km EW x 28 km NS Bigger areas are subject to feasibility study[6].
Acquisition Mode	Mono by default. Stereo and Tristereo subject to feasibility study.
Incidence Angle*	0-52° (≤20° or ≤30° on customer selection. Be aware that reducing the incidence angles might reduce the acquisition opportunities)
B/H	From 0.2–0.8 By default: 0.4–0.7 for Stereo 0.2–0.35 between each Tristereo pair

[5] In accordance with selected cloud-cover acquisition parameter.
[6] With our commitment to delivering useful results, larger areas are subject to a feasibility study before acquisition of imagery. In this instance, there is no commitment to collect imagery of the complete area three times. The main objective is to collect the area as soon as possible.

Service Level	Premium
Delivery Lead-Time	Rush

The tasking ends as soon as a validated image is acquired.

In the event that the weather does not allow collection of a validated image[7] within the chosen timeframe, the order is closed and not invoiced.

If the acquisitions are not completed on time, the customer can:

- extend the acquisition period;
- or accept an image with a higher cloud cover; in this particular case, the acquisitions shall be invoiced.

[7] Either the image does not meet to necessary cloud coverage to be validated, or that the satellite did not acquire the area, due to poor weather not triggering the tasking.

2.3 OnePlan

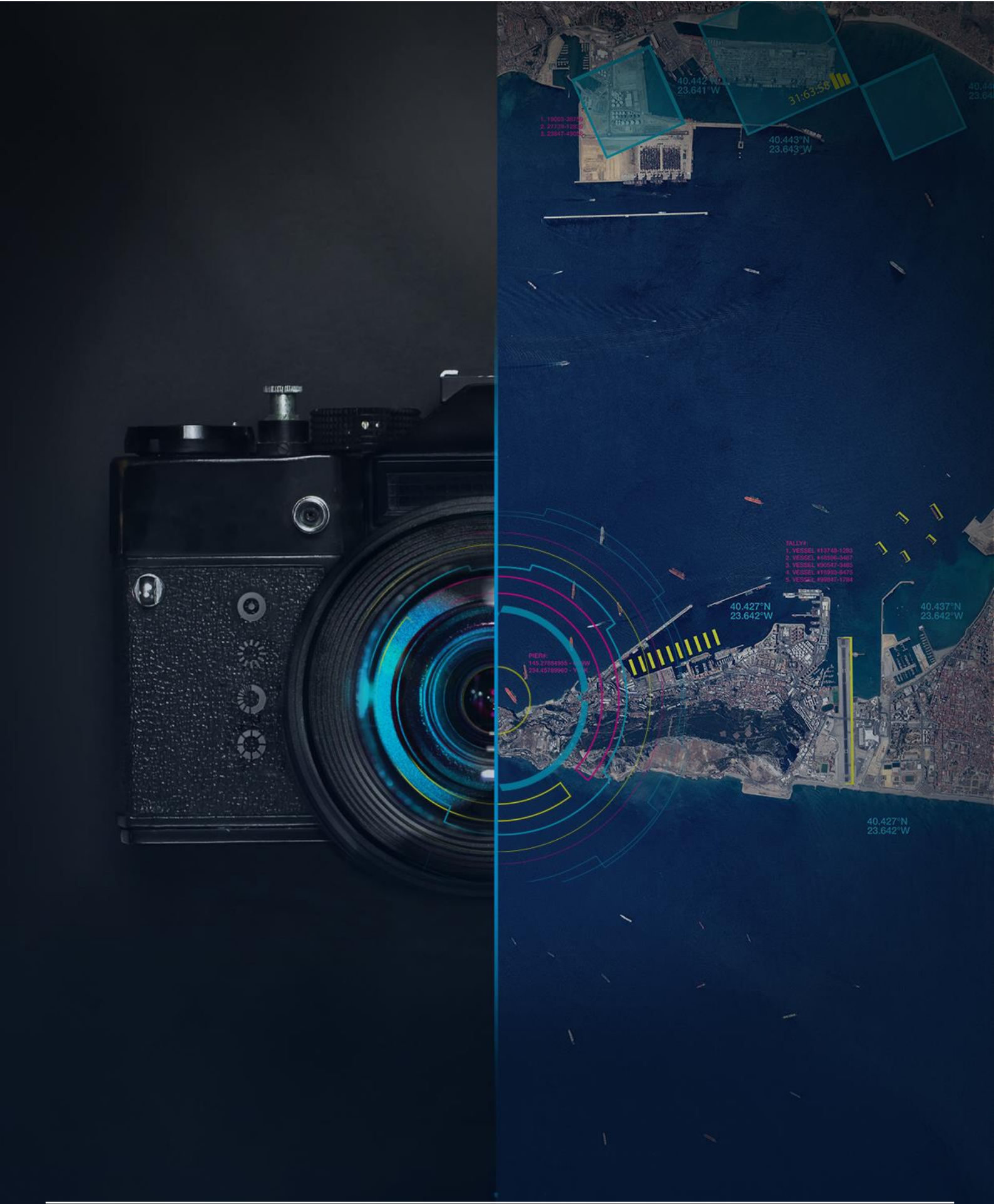
Obtain qualified coverage within an agreed timeframe

Whether you are looking for a map update, infrastructure planning or any other specific project, OnePlan provides you with the imagery you need. You select your timeframes, dates and preferred acquisition parameters – we ensure you receive the right qualified coverage, perfectly matching your criteria.

Timeframe	From 8 to 365 days
Start Date	Any day during the upcoming year
Cloud Cover	≤10% by default. ≤5% with uplift.
Minimum Order Size	100 km²
Max AOI Bounding Box	N/A Large areas are subject to feasibility study.
Acquisition Mode	Mono by default. Stereo and Tristereo subject to feasibility study.
Incidence Angle*	0-30° by default Or customer selected [5–52°].
B/H	From 0.2–0.8 By default: 0.4–0.7 for Stereo 0.2–0.35 between each Tristereo pair
Feasibility	Diagnosis on the probability of collecting the AOI in full complying with the specifications: **OnePlan standard,** or **OnePlan**[PRO], resulting from the feasibility study.
Service Level	Regular
Delivery Lead-Time	Standard Rush (in option)

In the event of the AOI not being entirely collected and/or does not achieve specifications by the end of the agreed timeframe, the customer will be given the choice to:

- extend the acquisition period, or
- close the request and receive all the acquisitions collected on specifications. In this particular case, all acquisitions shall be invoiced per delivery.



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