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1. Getting Started

1. What is the *LIST Aerial Photo Index Viewer*

The *LIST Aerial Photo Index Viewer (Viewer)* is an online photo viewer that allows you to search and view available aerial photography and aerial orthophotography (orthophotos)* over Tasmania.

The LIST has a library of aerial photography dating back to the 1940's and is currently in the process of creating a digital index and digital scans of that photography.

The *Viewer* shows the aerial and orthophoto coverage for each frame that is currently indexed and enables you to view a low resolution (preview) version of the selected frame. It then allows you to send an enquiry to the LIST about obtaining full resolution scans or orthophotos of the desired frame(s) in digital format. (Note it is not an online ordering system).

*An orthophoto is an aerial photo that has been scale corrected and georeferenced. This enables it to be used as a mapping background as it will be aligned with other information such as contours or property boundaries.

2. Compatible browsers

The *Viewer* will work in all browsers providing Adobe Flash Player is installed. If it is not installed, your browser will tell you.

3. A quick look at the *Viewer*

See diagram on the next page for a description of key components of the *Viewer*.

Show help

Zoom to full extent

Hide sidebar

Turn on Aerial Photo Index

Turn on Orthophoto Index

Sliders to filter by year(s)

Sliders to filter by scale

Tick on to see displayed coverage as a list. Change sort order by clicking on column header.

Click on table item to see Aerial Photo Details.

Click to zoom to an MGA55 coordinate or enter a location name.

Click to show the Cart contents.

Click on a coverage box to display the Aerial Photo Details.

Click to zoom in or out, or turn mouse wheel forward to zoom in and turn mouse wheel backwards to zoom out.

Click to orient photo to north.

Click to enlarge preview.

Aerial Photo Index

Display Photo Centres

Orthophoto Index

Filter / Search

Sliders

Year: 2010 - 2012

Scale: 1000 - 72500

Single Image

Film Frame

Project Number

Show results in Table view

Film	Frame	Scale	Date
1460	006	15000	
1460	030	15000	
1460	032	15000	
1460	034	15000	
1460	043	15000	
1460	046	15000	
1460	051	15000	
1460	053	15000	
1460	054	15000	
1460	056	15000	
1460	057	15000	
1460	058	15000	
1460	062	15000	
1460	063	15000	
1460	064	15000	

Zoom to Location

Cart

Aerial Photo Details

Film: 1460
 Frame: 034
 Run: 15
 Scale: 15000
 Date:
 Project: A152
 Easting: 539241
 Northing: 5441288
 Season: 2010-2011
 Photo ID: 192039
 Scan Resolution:

Add to Cart Orientate

2. Selecting an Index

You can select which indexes you wish to be displayed by clicking on the **Aerial Photo Index** or the **Orthophoto Index** buttons in the options bar on the left of the screen.



The Aerial Photo Index will be displayed in blue and the Orthophoto Index will be displayed in red.

3. Finding a location

1. Zooming to a location

To zoom to a location, click on the **Zoom to Location** option towards the bottom of the options column. A **Zoom to Location** field will appear.



In the **Location** cell, enter the name of a locality, a road/street name or a feature name (*e.g. Hobart, Tamar River, Orford Bowls Club*), then click on the magnifying glass or press enter. A list of results will appear below. If there is more than one result, click on the best match. The viewer will zoom to that location.

2. Zooming to a coordinate

To zoom to a coordinate, click on the **Zoom to Location** option towards the bottom of the options column if not already open. Select the **Coordinate** option to activate the easting and northing fields.




In the fields enter a six digit MGA55 easting and a seven digit MGA55 northing then click on the magnifying glass. The viewer will zoom to that coordinate.

3. Zooming

There are two ways to zoom in or out:

- Move the mouse to the desired location and turn the mouse wheel forward or back.
- Click on the + or - button at the top right corner of the map view.



To zoom to the full extent, click on the  button towards the top left of the options column.

4. Panning

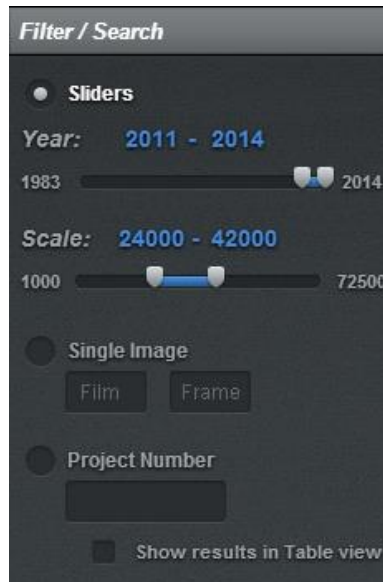
To pan around the map, click and drag the mouse.

4. Filtering the Year and Scale

1. Default settings

When the *Viewer* is opened it always shows the Aerial Photo Index with the year filter set to limit photo coverage to the years 2010 through to 2012. (These are the last two years for which theLIST has frame based aerial photography.)

Also, when the viewer is opened the scale filter will be set to limit the photo coverage to scales of between 1:24,000 and 1:42,000.



2. Changing the year filter

To change the range on the year filter, click and drag the slider buttons, or click once on a slider button and then use the left or right arrow keys on the keyboard to change the range in one year increments or decrements.

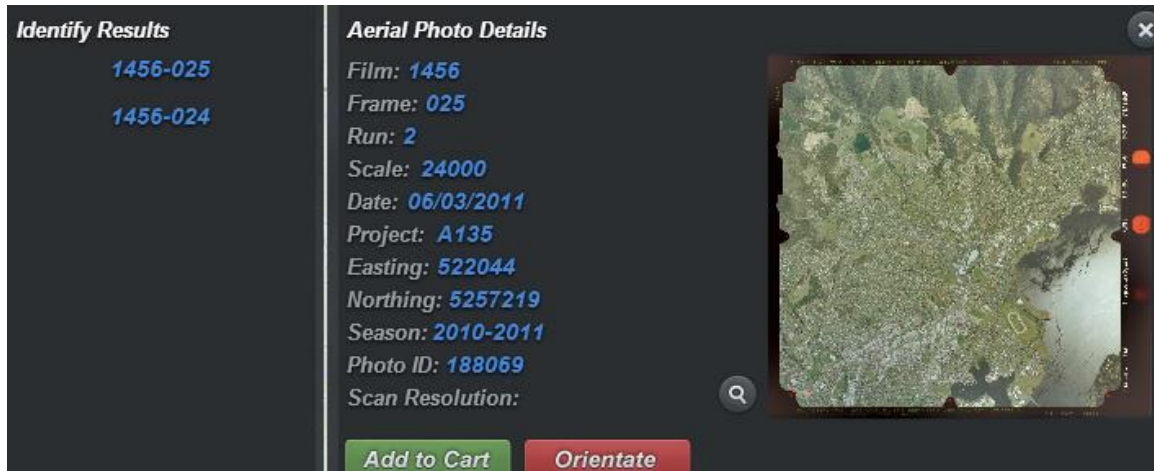
3. Changing the scale filter

To change the range on the scale filter, click and drag the slider buttons, or click once on a slider button and then use the left or right arrow keys on the keyboard to change the scale range in increments or decrements of 500.

5. Viewing photo previews and details

1. Viewing a photo from the map view

Once you have zoomed to your area of interest, click inside a blue coverage box that covers that area. This will open an **Aerial Photo Details** window displaying a preview of the photo along with its details.



If more than one coverage box covers that area, a list of those photos will be displayed in the adjacent **Identify Results** window. Clicking on a result from this list will display the relevant photo.

2. Viewing a photo from the table view

If you wish to view a list of all the photos visible in the current map extent, under the **Filter / Search** option in the options column, tick the **Show results in Table view** box.


<input checked="" type="checkbox"/> Show results in Table view			
Film	Frame	Scale	Date
1456	024	24000	
1456	025	24000	
1456	026	24000	

The list can be sorted in ascending or descending order by clicking on the column headers.

Moving the mouse up and down the list will highlight each photo coverage on the map view, while clicking on an item in the list will display a preview of the photo along with its details.

3. Orienting and enlarging the photos

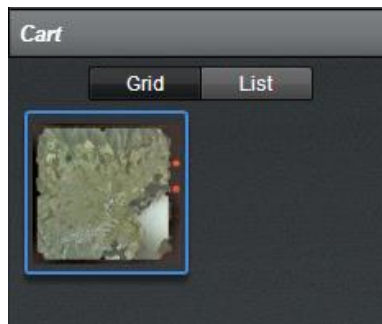
The orientation of the photo preview in the **Aerial Photo Details** window is initially determined by how the film was scanned. Click on the **Orientate** button to ensure that the photo is oriented to north.

To view an enlarged photo, click on the  button near the bottom right of the preview. Click anywhere to close the enlarged preview.

6. Sending an enquiry

1. Adding photos to your cart

When you have found an Aerial photo you would like to order, click the **Add to Cart** button in the **Aerial Photo Details** window. A **Cart** view will appear in the left hand column with the details of the photo(s) you have ordered.



You can view your order in two ways. Click on the **Grid** option to view previews of the photos you have ordered. Click on the **List** option to view a list of the details of the photos.

Additional photos can be added by repeating the processes above.

To remove photos from the **Cart**, click and drag the photo preview or details from the **Cart** to the map view.

Once you have one or more photos in your **Cart**, click the **Send Enquiry** button at the bottom of the **Cart** view in the options column. This will take you to your **Selected Imagery** page.



This page allows you to review your selection. You can also review the costs of the photos by clicking on the link to the **TASMAP Pricing Policy**.

Click the **Back to Map** button (bottom left) if you wish to modify the contents of your cart.

Click the **Next Page** button (bottom right) to proceed. This will take you to the **Delivery Details** page.

Delivery Details

Select your preferred options:

Delivery Format: Digital - DVD
 Digital - Web Download

File Format: TIFF
 JPEG
 ECW
 PDF

Client Group: Personal
 Government
 Educational Purposes
 Commercial/Value-Adding
 Consultant

For other custom requirements not detailed above, please use the comments section on the next page.

Select your preferred delivery format, file format and client group from the options provided. Please note the following information about these options:

2. Delivery formats

Delivery by DVD	Delivery by DVD incurs a charge per DVD, including postage (<i>see theLIST Aerial Photo Costs link</i>) in addition to the cost of the photos.
Delivery by Web Download	Delivery by <i>Web Download</i> does not incur an additional charge.

3. File formats

TIFF (.tif)	<p>TIF format is uncompressed and is around 1.2 GB in size for a colour photo scan and 300-400 MB for greyscale. However, they are zipped for web download and the ZIP file will be around 2/3 to 3/4 of the uncompressed size. Note that zipping doesn't affect the image quality; all of the original information is still intact.</p> <p>TIF format orthophotos can hold internal georeferencing (<i>geotiff</i>).</p> <p>Orthophotos will generally be a bit smaller than a scan as they have been cropped during processing to remove the photo frame.</p>
JPEG (.jpg)	<p>While photos supplied in JPEG format are compressed, maximum quality is maintained by using minimum compression. JPEG file sizes are around 400 - 500 MB for colour scans and 200 - 300 MB for greyscale.</p> <p>Orthophotos can be supplied in JPEG format but the coordinate reference for georeferencing is stored in an accompanying world file (<i>.jgw</i>).</p>

ECW (.ecw) ECW format is the archived format for theLIST orthophotos. A compression value of 1 is used to maintain maximum quality and minimum compression. File sizes are around 300 MB for a colour orthophoto and 100 MB for greyscale.

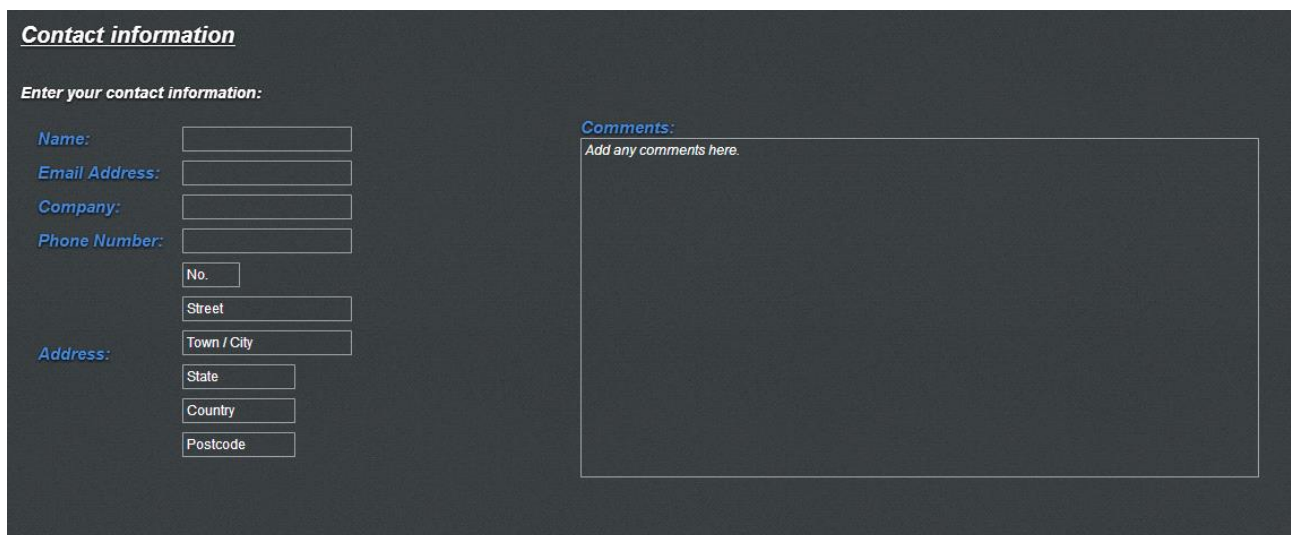
ECW format contains internal coordinate references for georeferencing.

PDF (.pdf) This format is normally used for orthophoto maps where various data layers can be superimposed over an orthophoto background. In a PDF file the data layers can be turned on or off as required. For example contours, property boundaries and coordinate grids, or lats and longs can be added as layers.

The cost for this type of product varies, therefore, a quote is provided on request.

To continue, click on the **Next Page** button (bottom right). This will take you to the **Contact Information** page.

4. Entering your contact information



The screenshot shows a form titled "Contact information" with the instruction "Enter your contact information:". The form includes the following fields:

- Name:
- Email Address:
- Company:
- Phone Number:
- Address:
 - No.
 - Street
 - Town / City
 - State
 - Country
 - Postcode
- Comments:

Enter your contact information (email address and company are not compulsory).

In the **Comments** box detail any specific requirements. Here you can detail an area for cropping by specifying the street address, title reference, property identifier, or coordinates. Or enter the requirements for a PDF orthophoto map, i.e. location as well as required map layers like contours, property boundaries, coordinate grid, lats and longs, etc.

Click on the **Send Enquiry** button. (Please note that once you have clicked this button you are unable to go back.)

You will receive an automatic email to confirm that your enquiry has been received. Within 2 to 3 working days you will be contacted by an officer assigned to respond to your enquiry. The officer will clarify the details of your enquiry and discuss costs and payment options.

7. Further Support

For general enquiries regarding aerial photography email aerialphotos@dpiwwe.tas.gov.au