

**SOLARIS***upv*

*Sun Position Detection API*

A central illustration featuring a globe with the words 'CLEAN ENERGY' written across it. Above the globe, there are icons for wind turbines, a factory with smokestacks, solar panels, and power transmission towers. A sun is positioned above the towers. The entire scene is framed by green leaves and stems. The background is decorated with various shades of green and blue circles and wavy lines.

**CLEAN  
ENERGY**

# Sun Position Detection API

<https://www.de-vis-software.ro/sun-position-detection-api.aspx>



# Agenda

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# 1. What is SolarisUPV?



SolarisUPV is a Sun Position Detection API using an input photo powered by Artificial Intelligence and powerful cloud infrastructure.

## Target Audience

This API is meant for IT developers which are making apps to detect sun position in a photo taken by a camera. Domains of using it: automated adjusted position of solar photovoltaic panels so that the sun is centered in the photo and the pv panels will have maximum yield.

## 2. Which Are The Benefits?

### **Automated Process**

All processes are automated. You just have to follow the required rules for getting a high accuracy reading.

### **Easy to Integrate in your APPS**

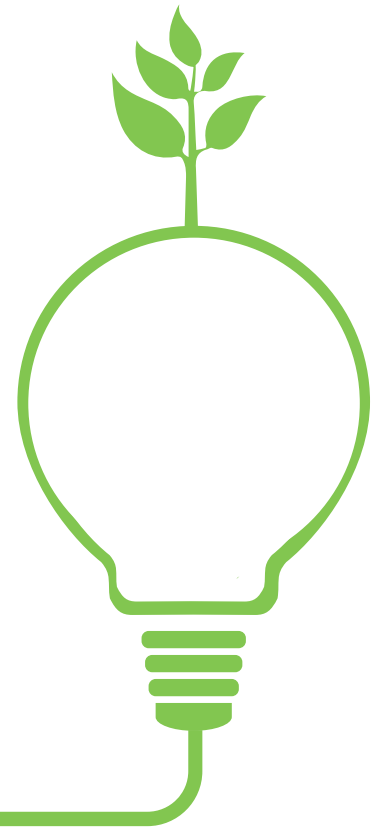
We have multiple sample source codes presented on our website written in different programming languages which will help any developer to easy integrate the API in the APP(s).

### **Chat Support 24 x 7**

If you have questions or need some help, we are glad to quick answer you and offer the best we got.

### **You Own Commercial Copyright**

Yes, you may call our API in your APPs and feel free to sell your applications without any extra fee than our pricing packages.



# 3. How To Use It?

## 1. Register

Register a new account on our website with real data.

## 2. Activate Trial

Login to our website, go to Pricing and click on Try it Now blue button.

## 3. Input JSON

Construct your input JSON string as instructed.

## 4. Send Request

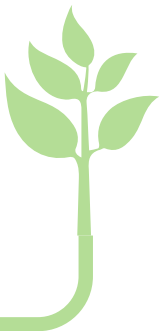
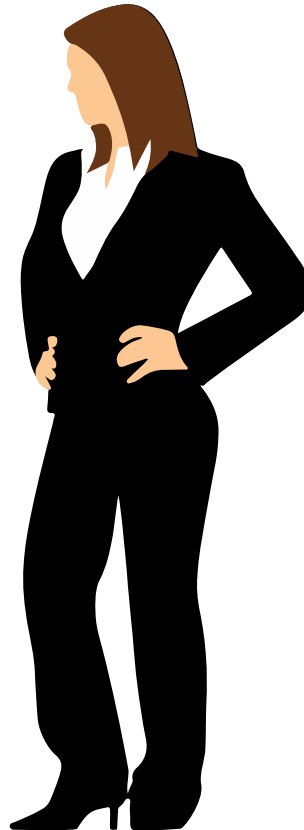
Send POST request with your input JSON body and required headers to our API.

## 5. Get Response

Get JSON response from our API which contains detected sun position and calculates pan and tilt angles for maximum yield of the solar panels from photo.

## 6. Use in Your APPs

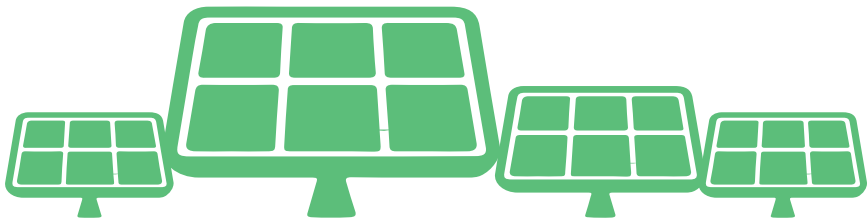
Process our API response and use it as you wish in your APPs, you own commercial copyright for use our API.



# 4. Input / Output JSON Strings

## Input JSON String

```
{  
  "base64_Photo_String": "iVBOA...base64 photo...GAAAA",  
  "photo_url": "NO",  
  "boundingBoxCrop": "NO"  
}
```



## Output JSON String

```
{  
  "created": "2020-10-11T05:42:29.631Z",  
  "predictions": [  
    {  
      "probability": 0.851797163,  
      "tagId": "2b68fcba-2415-4589-9153-87766d50e334",  
      "tagName": "sun|-30|60",  
      "boundingBox": {  
        "left": 0.6558597,  
        "top": 0.4943004,  
        "width": 0.110477746,  
        "height": 0.09599301  
      },  
      "boundingBoxPhoto": ""  
    },  
    "final_photo": "kZJRgABAQEASABIAAD/2wBD"  
  ]  
}
```



# 5. Pricing Packages

## Other Common Features

- Unlimited Devices.
- Get sun position in one photo.
- Get pan and tilt angle of solar panels.
- Get confidence score for recognized sun position in the photo.
- Administration console.
- Premium support through online chat and/or tickets, very supportive help and quick responses.

Free 7 Days TRIAL	Monthly TIER	Yearly TIER
<b>\$0</b>	<b>\$80</b>	<b>\$816</b>
<b>FREE</b>	<b>No Discount</b>	<b>15% Discount</b>
<b>50 Reqs / Day</b>	<b>10000 Preds/Month</b>	<b>10000 Preds/Month</b>
<b>Unlimited Devices</b>	<b>Unlimited Devices</b>	<b>Unlimited Devices</b>
<b>NO Copyright</b>	<b>Commercial Copyright</b>	<b>Commercial Copyright</b>
<b>Chat Suport 24 x7</b>	<b>Chat Support 24 x 7</b>	<b>Chat Support 24 x 7</b>
<b>Try it NOW!</b>	<b>Buy NOW!</b>	<b>Buy NOW!</b>



# Thank You

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