

ARIANE LAUNCH COMPLEX N. 4

ELA-4

The first Ariane 6 rocket was launched on July 9, 2024 at 7:00 p.m. UT
from the ELA 4 zone of the Kourou Guiana Space Center
specially built for it.



*This add-on is for **Open Orbiter 2024**
but also works with Orbiter **2016***



I - ABOUT INSTALLATION

You are not required to install my **KOUROU ELA-4** add-on, so that this rocket can operate. But you will not have a very pleasant environment... See for yourself :



*Without **KOUROU ELA-4** add-on*



*With **KOUROU ELA-4** add-on*

If you want a rocket on this site, install the Ariane 6 add-on.

Yes, because this add-on does not include a rocket.

A few **scenarios** are provided in this add-on, but only for observing the area and its infrastructure. (*See below*).

New Features:

Compared to the Orbiter 2016 version :

- The Assembly Tower and the Launch Umbilical Mast have been redesigned.
- The scenery elements (except the Launch Center) have also been redesigned.
- The ground texture is new (grass has grown).
- A new detailed area (near the small lake) has few 21 resolution tiles.

I haven't checked, but this add-on should be compatible with Orbiter **2016**

This ELA-4 site at the Guiana Space Centre in Kourou will continue to be improved in what I hope is a near future.....

During installation, if you have previously installed my "French Guiana Surface Tiles" add-on (v.1) and/or the "Kourou CSG Space Center v5.1" add-on, some new files will overwrite older files (tiles, but also meshes). This is normal; don't worry.

That said, I advise against installing these two add-ons in OpenOrbiter 2024. Keep your good old Orbiter 2016 for them...

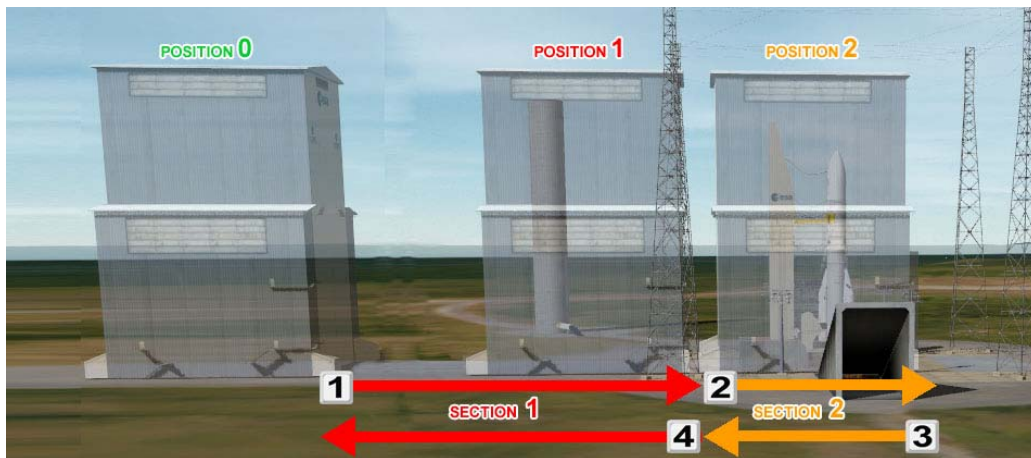
II - COMMANDS AND CONTROL KEYS

A) The mobile Assembly Tower



- 1** Moves the Assembly Tower forward (segment 1)
- 2** Moves the Assembly Tower forward (segment 2)
- 3** Moves the Assembly Tower backward (segment 1 or 2 depending on the position of the tower)
- 4** Moves the Assembly Tower backward (segment 2 or 1 depending on the position of the tower)

Note : The Tower will only move on segment #2 if the doors are open



Yes, but caution !



If you move forward and then backward with the doors open, and after that start again moving toward the umbilical mast with the doors still open, a charming voice (who hasn't understood anything) will ask you to open the doors, even though they're already open... Are you following me? In that case, don't vew her and press again the key that controls the opening... Ok ?..

- O** Open the gates
- C** Close the gates

- Ctrl + L** Turn on the spotlights (assuming we are in front of the mast with the tower in the background)
 - 1st press : turn on the left side headlights
 - 2nd press : turn on the right side headlights
 - 3rd press : turn on the central spotlight (fixed on the Tower, it moves with it !)
 - 4th press : turn off the left side headlights
 - 5th press : turn off the right side headlights
 - 6th press : turn off the central spotlight

- Alt + B** Turn on the Water Tower's beacons
 - 2nd press : turn off the beacons






B) The Umbilical Mast


-  Open its arms and retract the umbilicus
-  Close its arms and position the umbilicus (2nd press)

III - SCENARIOS

A) The list of the 5 scenarios

Five scenarios provided are in the folder <Orbiter 2024> \ **Scenarios** \ **ELA4**

-  1 ELA4 Tour Mobile (jour)
-  2 ELA4 Tour Mobile (nuit)
-  3 ELA4 Tour Ombilicale (1)
-  4 ELA4 Tour Ombilicale (2)
-  5 ELA4 Tour du petit Lac

Descriptions are...in the relevant scénario(s) ! 

B) Notes on scn file sections

Normally you should be familiar with the structure of .scn files, but just a little reminder and clarification.

1°/ The Mobile Assembly Tower:

```
ELA4_Tower:Kourou\Towers\VB-ELA4-Tower
STATUS Landed Earth
POS -52.7610215 5.2727425
HEADING 161.00
AFCMODE 7
NAVFREQ 0 0
ANIM_0 1.00000 0 (Optional) Moving section 1 (not traveled by default) here section covered
ANIM_1 0.00000 0 (Optional) Moving section 2 (not traveled by default) here section not covered
ANIM_2 1.00000 0 (Optional) Opening Doors (closed by default) here open
BEACONS 0,1,2,3,4,5,6 (Optional) State of the Beacons (off by default) here all are on
LIGHTS 0,1,2 (Optional) State of the Projectors (off by default) here all are on
END
```

2°/ The Umbilical Mast :

```
ELA4_Ombilic-Tower:Kourou\ELA4_Mat
STATUS Landed Earth
POS -52.7604642 5.2711303
HEADING 161.00
AFCMODE 7
NAVFREQ 0 0
SLP 0 0.0000 (Optional) Status of the Arms (open by default) here open
or Status of the Umbilicus (plugged in by default) here open
SLP 2 1.0000 (Optional) Status of the Arms here closed
Status of the Umbilicus here unplugged
END
```

3°/ Rocket Booster Supports :

Note: These "palettes" do not appear in the vessel list if you press the **F3** ke.



No booster holder



Holders for 2 booster



Holders for 4 boosters

For version 6.2 (2 boosters) of the Ariane 6 rocket you must have these lines in your scenario :

```
Palette 62:Kourou\Towers\VB-ELA4-Palette62
STATUS Landed Earth
POS -52.7604642 5.2711303
HEADING 341
AFCMODE 7
NAVFREQ 0 0
END
```

For version 6.4 (4 boosters) of the Ariane 6 rocket you must have these lines in your scenario :

```
Palette 64:Kourou\Towers\VB-ELA4-Palette64
```



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