

# orxCAMERA structure

## Summary

```
[CameraTemplate]
FrustumHeight = <float>
FrustumWidth  = <float>
FrustumNear   = <float>
FrustumFar    = <float>
ParentCamera  = CameraTemplate
Position      = <vector>
Rotation      = <float>
Zoom          = <float>
GroupList     = Group1 # ... # GroupN
```

## Details

Here's a list of the available properties for an orxCAMERA structure:

- FrustumNear/FrustumFar: Defines the near and far planes for the 📷 [camera frustum](#). The near plane is excluded whereas the far plane is included when doing render culling.
- FrustumHeight/FrustumWidth: As orx's cameras are 2D ones, their frustum are 📷 [rectangle cuboids](#) instead of real 📷 [frustums](#). If you want to achieve a 1:1 aspect ratio with your main display window, you can use the `Display.ScreenHeight` and `Display.ScreenWidth` values.
- ParentCamera: If defined, this camera will be a child of the other camera in the same way it's done for orxOBJECTs that have a ParentCamera property.
- Position: Camera's initial position.
- Rotation: Camera's initial rotation (along its Z-axis).
- Zoom: Camera's initial zoom.
- GroupList: Groups (of objects) will be rendered in the order of declaration. Up to 16 groups can be associated to a camera. Defaults to “default” group. <sup>1)</sup>

<sup>1)</sup>

Good discussions on GroupList rendering orders can be found at <http://orx-project.org/forum?func=view&catid=16&id=7254#7279> and <http://orx-project.org/forum?func=view&catid=12&id=7344>

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