

SinoFSX - 8183 SCENERY

# 青岛流亭国际机场

Qingdao Liuting International Airport



V 1.0.3

## 1.机场简介 INTRODUCTION

青岛流亭国际机场 (IATA: TAO, ICAO: ZSQD), 位于中国山东省青岛市城阳区流亭街道, 距青岛市中心约 23 千米, 为 4E 级民用国际机场, 是中国十二大干线机场之一。

青岛流亭国际机建成于 1944 年; 1987 年 11 月完成一期扩建工程; 2004 年完成二期扩建工程; 2005 年升格为国际机场; 2007 年完成三期扩建工程。

截至 2017 年 8 月, 青岛流亭国际机场拥有两座航站楼, 总面积 12 万平方米; 拥有一条长 3400 米、宽 45 米的跑道, 机位 70 个; 1 号航站楼站坪面积 18.4 万平方米; 2016 年共运营定期航线 133 条, 通航城市 77 个。

2017 年, 青岛流亭国际机场旅客吞吐量 2321 万人次, 同比增长 13.2%; 起降架次 17.88 万架次, 同比增长 6.5%。

Qingdao Liuting International Airport (IATA: TAO, ICAO: ZSQD) is located in Liuting Street, Chengyang District, Qingdao, Shandong province, China. It is about 23 kilometers away from Qingdao downtown and is a 4E civil international airport. It's also one of the 12 main airports in China.

Liuting Airport was built in 1944. Completed the first phase of the expansion project in November 1987; It completed the second phase of in 2004; In 2005, it upgraded to international airport; The third phase of the expansion project was completed in 2007.

As of August 2017, Qingdao Liuting International Airport has two terminals with a total area of 120,000 square meters. It has a 3,400 meters long and 45 meters wide runway and 70 Stands. Terminal 1 has an apron of 184,000 square meters. In 2016, a total of 133 regular flights and 77 navigable cities were operated.

In 2017, the passenger throughput of Qingdao liuting airport was 23.21 million, up 13.2% year on year. There were 178,800 lifts and landings, an increase of 6.5 per cent year-on-year.

## 2.地景特点 SCENERY CHARACTERISTICS

- 较精细的航站楼、机库、周边建筑建模
- Detailed terminals, hangers and area buildings' models
- 按照 eAIP1806 制作的真实滑行道和停机位，可供连飞使用
- Real TWY and stands according to eAIP 1806 for online flying
- 按照 eAIP1806 设置的甚高频无线电信标导航台
- VORS placed by eAIP 1806
- 较好地还原机场周围细节
- Well restored around-airport-sceneries
- 包含青岛航空真实 AI 飞行计划和机模
- Include QDA AI plans and model

## 3.安装说明 INSTALL GUIDE

1. 把“ZSQD”文件夹放入“Addon Scenery”文件夹中
1. Copy the folder ‘ZSQD’ into ‘Addon Scenery’
2. 备份并删除默认地景文件夹“1002”中的“APX80190.bgl”、“cvx8019.bgl”、“OBX80190.bgl”和安装的其他青岛机场。
2. Backup and delete basic scenery files ‘APX80190.bgl’, ‘cvx8019.bgl’ and ‘OBX80190.bgl’ in folder ‘1002’ and other old Qingdao Airports.
3. 在游戏中手动添加即可。
3. Add the airport in the simulator.
4. （可选）把“AI”文件夹中的“Traffic\_QingdaoAirlines\_Summer2017.bgl”放置到“游戏目录/Scenery/World/scenery”文件夹中，把“Faib Airbus A320 QDA”文件夹放置到“游戏目录/Simobjects/Airplanes”中。
4. （NOT NECESSARY）Copy “Traffic\_QingdaoAirlines\_Summer2017.bgl” in the “AI” into “GAMEFOLDER/Scenery/World/scenery”，copy “Faib Airbus A320 QDA” folder into “GAMEFOLDER/Simobjects/Airplanes”.

## 4.航行资料汇编摘录 eAIP EXCERPT

### 4.1.机场地理位置及管制资料 Aerodrome geographical and administrative data

机场基准点坐标及其在机场的位置 ARP coordinates and site at AD	N36° 15.9’ E120° 22.4’ Center of RWY
标高/参考气温 Elevation/Reference temperature	10m/ 30.5°C (JUL)
允许飞行种类 Types of traffic permitted(IFR/VFR)	IFR/VFR
机场性质/飞行区指标 Military or civil airport & Reference code	Civil/4E

#### 4.2.跑道特征 Runway characteristic

跑道号 Designations RWY NR	真方位和磁方位 TRUE & MAG BRG	跑道长宽 Dimensions of RWY (m)	可用滑跑/起飞/加速停止/着陆距离 TORA/TODA/ASD A/LDA	仪表进近系统类型/频率/航向 ILS type/frequency/Track
17	165° GEO 171° MAG	3400 × 45	3400 m	CAT I 110.700 171°
35	345° GEO 351° MAG	3400 × 45	3400 m	CAT I 111.700 351°

#### 4.3.空中交通服务通信设施 ATS communication facilities

服务名称 Service Designation	呼号 Callsign	频率 Frequency
ATIS		127.200
APP	Qingdao Approach	119.400 (124.600) AP01
APP	Qingdao Approach	121.150 (124.600) AP02
APP	Qingdao Approach	119.775 (124.600) AP03
TWR	Qingdao Tower	118.700 (124.300)
GND	Qingdao	121.650
GND	Qingdao Delivery	121.950

#### 4.4.机场使用规定

4.4.1.可使用最大机型：B747-8 及其同类机型。

4.4.2.A3, D (A 滑行道以东) 滑行道供翼展 65m 以下航空器使用。

4.4.3.D (A 滑行道以西) 滑行道供翼展 52 米以下航空器使用。

4.4.4.A6 滑行道供翼展 36 米以下航空器使用。

4.4.5.A7 滑行道仅供停放于 41-51, B1-B3 号机位的航空器滑出使用。

4.4.6. A8 滑行道仅供翼展小于等于 29 米, 停放在 B1-B3 停机位的航空器滑入时使用。

#### 4.4.Airport operations regulations

4.4.1. Maximum aircraft to be available: B747-8 and equivalent.

4.4.2.TWYs A3 and D (east of TWY A) available for aircraft with wing span less than 65m.

4.4.3.TWY D (west of TWY A) available for aircraft with wing span not exceeding 52m;

4.4.4.TWY A6 available for aircraft with wing span less than 36m.

4.4.5.TWY A7 is only available for aircraft to exit stands Nr. 41-51 and B1-B3;

4.4.6.TWY A8 is only available for aircraft with wing span is no more than 29m taxiing in stands Nr. B1-B3 for parking.

4.4.7.在 C1-C7, D1-D7, F1, F2, G1, 5-20, 21, 25, 28, 33, 36-38, 52 及 53 号机位停放的航空器滑进推出; B1-B3, 22, 23, 26, 27, 34, 35, 41-51,60-66 号机位的航空器滑进滑出。

4.4.8.17-20 号停机位由 A6 道口滑入时沿 L6 线进入机位; 17-20 号停机位推出时, 禁止头朝东南推出; 使用 52 号和 53 号停机位的航空器, 推出时只能机头朝东推出。

4.4.9. 航空器不能同时使用的机位/ Pair of stands forbidden to use simultaneously:

正在使用的机位 The stand in use	不能与之同时使用的机位 The stands forbidden to be used
Nr.5	Nr.6
Nr.19 & Nr.20	Nr.20B
Nr.F1	Nr.C1 & Nr.C2
Nr.F2	Nr.C2 & Nr.C3

4.4.7. Aircraft parking/docking at stands Nr.C1-C7, D1-D7, F1, F2, G1, 5-20, 21, 25, 28-33, 36-38, 52 and 53 shall taxi in and be pushed back ; Aircraft parking/docking at stands Nr. B1-B3, 22, 23, 26, 27, 34, 35, 41-51 ,60-66 shall taxi in and out by itself;

4.4.8. Aircraft shall taxi in stands Nr.17-20 from A6 via L6, aircraft pushed back nose to southeast from 17-20 is forbidden; aircraft only permitted to push back nose to east from 52, 53.

## 5.地景使用说明 SCENERY USAGE NOTES

- 跑道东侧南北两端的 Windsocks 可以用于观测风向。
- 跑道南端设有 2 个等待坪, 用于管制员改变起飞顺序, 等待引导线为黄色虚线, 具体使用方法请百度。
- 根据卫星图: 航站楼南端的机位 19, 20 之间有一个幽灵机位——机位 20B, 应该是作为复合机位停放重型机的, 由于 FSX 并不知道 20B 使用时 19, 20 不能使用, 生成 AI 机时容易冲突, 就没有添加到机位列表, 不能出生在这个机位, 只能自己进入, 所以, 连飞时可以使用, 机位表示为黄色虚线。
- The windsocks besides the runway can be used to instruct the real wind direction.
- There are 2 stand-by aprons besides the RWY 35, in order to allow the ATC changing the take-off queue, for more details, please search on the internet.
- According to the satellite maps, there is an orphan stand Nr.20B between stands Nr.19 and 20. The stand is a composite stand for heavy aircrafts. Due to the fact that FSX does not know the rule that 19, 20 is not available when 20B in use, it might crash when FSX generates AI aircraft. Due to which, stand 20B is not in the stands list. You cannot born in this stand, but you can taxi in the stand by yourself. You can use it when online flying. The parking guide line is yellow dashed line.

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|--|---|
| 4. 机坪北段货坪上也有两个复合机位——F1, F2, 同上一条, 可以自行滑入, 但不能出生于此。 | 4. There are 2 composite stands F1, F2 on the cargo apron, too. The details of these stands' usage can be found in the previous information. Also, you can taxi-in by yourself but cannot born on those stands. |
| 5. 本地景配合 REX 发布的 World Wide Airport 使用效果更佳。        | 5. This scenery product can performance better with the REX World Wide Airport.   |

## 6.开发及测试人员 DEVELOPING TEAM

设计、开发 / Developer : SINO/CDG8183    e-mail : allen5261@foxmail.com  
测试 / Testing : SINO/CSN0217

## 7.版权说明 COPYRIGHT

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QDA AI plans collected from Avsim Library.

AI model made by Faib.

AI repaint painted by SINO/CDG8183.

H-5 fighter models made by Ralf Kreibich from Avsim Library.

Cargo hanger models collected from 3DWarehouse.

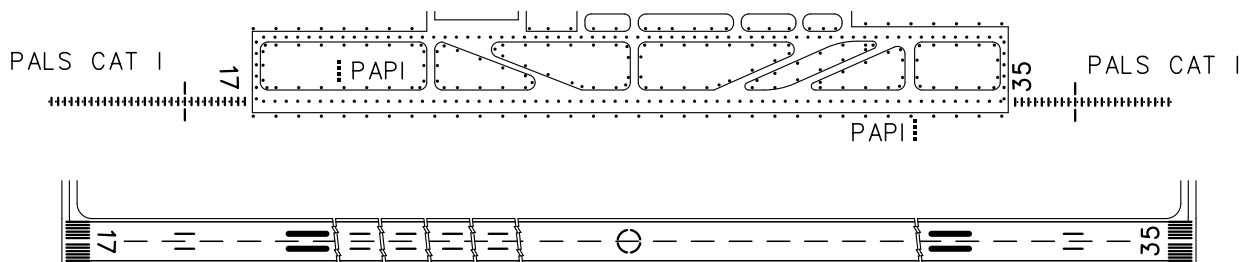
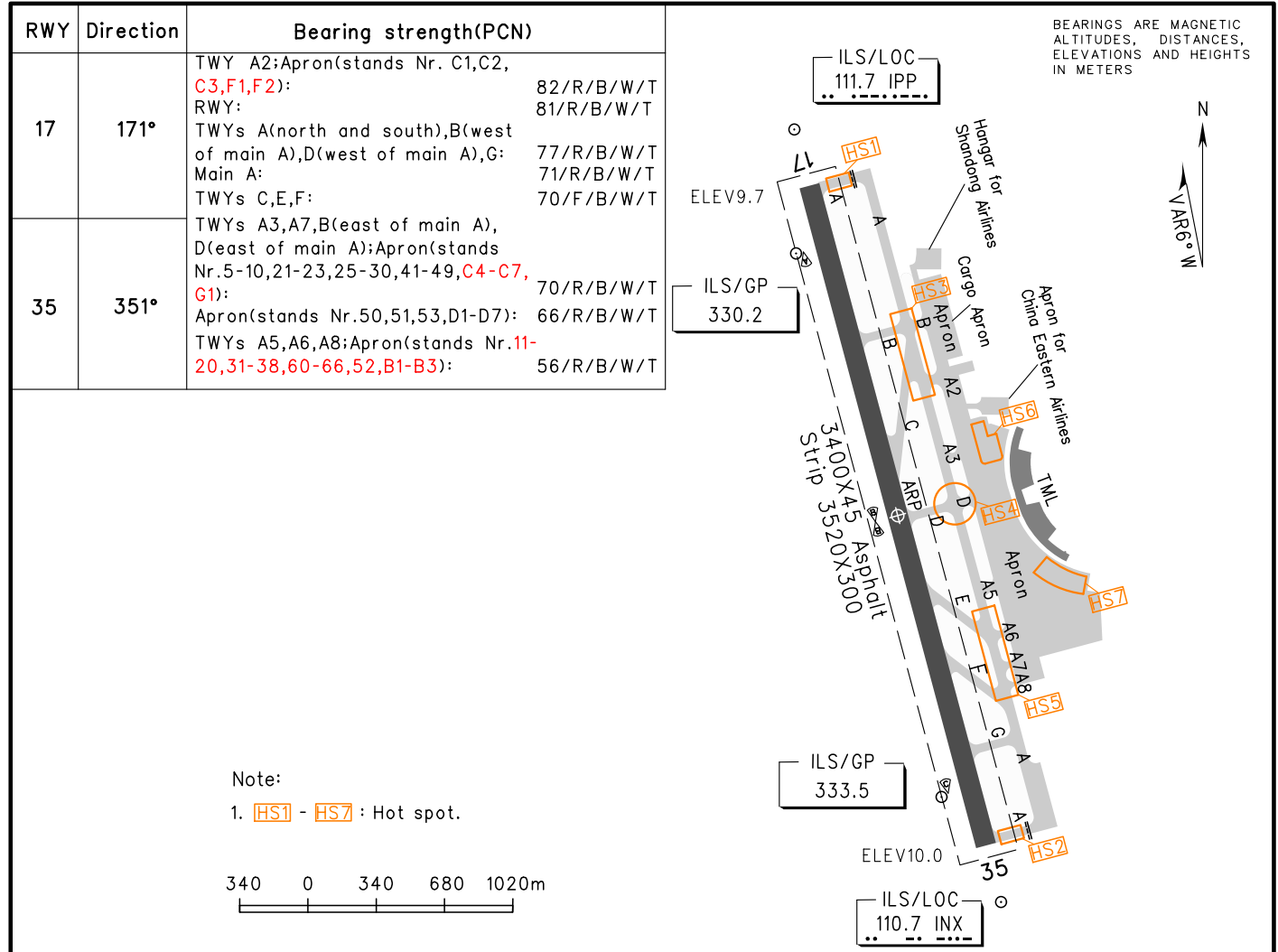
Airline Hanger, Main Terminal and Airport Hotel model built by Sino/CDG8183.

## 8.机位图 STAND MAPS

D-ATIS 127.2  
TWR 118.7(124.3)  
GND 121.65  
121.95 for delivery  
(DCL AVBL)

**ZSQD QINGDAO/Liuting**  
N36°15.9'E120°22.4' ELEV 10m

## AERODROME CHART



TAKE-OFF MINIMA(WITH RELIABLE ALTN)(m)					LIGHTS	
	RWY17		RWY35		RWY17	RWY35
	REDL	NIL(Day only)	REDL	NIL(Day only)		
A					PALS CAT I	PALS CAT I
B	RVR 400	RVR 500	RVR 400	RVR 500	SFL	SFL
C	VIS 800	VIS 800	VIS 800	VIS 800	PAPI	PAPI
D					REDL	REDL
					RCLL	RCLL

**Note:** RWY17: ceiling 280m,VIS 5km, if climbing gradient less than 4.0%.

Changes: PCN.

D-ATIS 127.2  
 TWR 118.7(124.3)  
 GND 121.65  
 121.95 for delivery  
 (DCL AVBL)

# AIRCRAFT-PARKING CHART-ICAO

ZSQD QINGDAO/Liuting

