LIONWORKS

S t a n d a r d s

All work of Lionworks will be done with these standards!

for Sceneries

> Original flight charts + photos and international airport data as draft
> Satellite pictures will be used as back ground pictures for the design
> Original settings of all airport data
> Using of preferably original looking textures (if possible photo real)
> Surface distribution of taxiways / aprons like the original
> Taxiways with turning curves down
> Taxiway center lines with turning curves down and night lighted (green)
> Terminal preferably based on the original, if existing with all gates
> Original control tower with preferably photo real textures
> All antennas: Radar, VOR, NDB, ILS (GS & Loc), Radio
> All streets at and around the airport & parking lot
> All hanger and building (but not to small) in preferably original design
> Detailed apron environments (Lampe post, Trees, Signs ect.)
> Runway holding points at the taxiways + minimum of taxiway signs
> ATIS + ATC with all known frequencies, includes approach assignment
> Airport equipment + marshalled or docking system
> Original static aircrafts (if available painted by Udo Entenmann)
> If required original dynamic Aircrafts (by Pablo Schultze-Rhonhof)
> 3D Objects primary designed by Pablo Schultze-Rhonhof or Jürgen Mewes
> Photo real trees and bushes (no default palms!!)
> Adjustment of the airport environment (city + houses, rivers, mountains, coastline)
> So few as possible default buildings (only as gap filler and for cities)

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for Aircrafts

> All settings like original data of the aircraft types and subtypes
> > Data base of the Physics-University-Wuerzburg & of the aircraft companies

> All basic measurements, weights & performance data in to the Air file (Specifications) listed
> Viewpoint – set to the correct position of the flight deck (Pilot seat)
> Exact distribution of the fuel tanks and the correct position in the aircraft
> Exact settings of the gear position (trace, wheel base...) and scrap points
> Original number of flaps positioned, original flaps spool time and flaps lift
> Basic weight set to original weight (with full fuel tanks = maximum ramp weight)
> Detailed settings of the wings (aerofoil) -> (wingspan, wing area, dihedral, aspect ratio)
> Settings of the horizontal tail (ailerons) -> (wingspan, area, position)
> Fine adjustment of the airframe / Aerodynamic drag
> > so that given flight data and performance can be achieved during the flight

- > Video Data serves as guideline
> Engine performance: setting of original thrust of the used engine type
> Reverse thrust setting (on 7 to12 %)
> setting of the spool time and engine idle speed
> exact setting of the fuel consumption and exhaust gas temperature
> exact setting of the engine position on the aircraft
> Setting of the wing angle and the position of the spoiler

Paint:
> Detailed paint with original logos, registration, original livery and smoothed writings

>> all aircraft will be tested in a check flight and as the case may be with
fine adjustments following

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for Panels:

Every panel, made or edited by Lionworks must have the following equipment:

> Nav-Instruments (Radio compass o. Pilot Flying Display) + RMI (VOR, ADF) + DME
> Fuel Instruments (for all tanks / total fuel) >> optional "Fuel Management Gauge"
> Autopilot (CAT III capable)
> Engine Instruments (N1 and FF must be for direct reading, preferably digital)
> Air Speed Indicator – starts with "0", preferably digital and includes Mach Speed
> Enough Standby Instruments (ASI, Altimeter, HSI, Whiskey Compass)
> Radio for all required frequencies (Com, Nav1, Nav2, ADF, and Transponder) at the main panel
> Thrust Lever on main panel
> Radar Altimeter or / and Callout, or GPWS, or FMC with the same function
> GPS or INS
> Autopilot-Off Warning
> Digital Spoiler Positions Display
> Wind speed Indicator
> Outboard Temperature Indicator (OAT) and may be True Air Temperature (TAT)
> Flight Control Surface + Trim display (Trim preferably digital)
> Auto brakes / Auto brake Switch
> Switches for: Landing-Lights, Flashlights/Strobe, Pilot heat/Anti-Ice, Panel-Light
> Air Condition Switch
> Engine Start Switches + Fuel Pump Switches
> Switch for Cabin Signs (Passenger Aircrafts only)
> X-Feet Switch + as the case may be Tank Selector
> Functional and preferably digital clock (Chronometer)
> Gear Wind Sound Gauge
> As far as possible Ground Speed Indicator
> If required (DC-10, B727, Military Aircrafts) Auto coordination's-Switch (on/off)
> TCAS

Date: April 2008