

■ PAPI-LED

■ LED Precision Approach Path Indicator (PAPI)

Compliance with Standards

ICAO: Annex 14, Volume 1

ICAO: Aerodrome design manual, part 4 & 6

FAA: AC 150/5345-28 CAAC: MH5001

CAAC: AC-137-CA-2015-01-R1 CAAC: AC-137-CA-2015-07

Application/Use

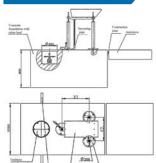
Located on the left side of runway to provide visual precision approach path indication for pilots preparing to land

Features

- Light distribution and beam color shall meet the requirements of ICAO annex 14 and FAA AC 5345-28
- Excellent optical system design makes excellent red and white transition performance with straight transition line
- Use LED light source, max power consumption at low temperature is less than 72W
- Intelligent electrical control system can automatically turn off the light in case of abnormal conditions
- Each lighting fixture has a 4-digit LED digital tube to timely display the elevation angle of the lighting fixture with high precision
- Slight changes in lateral horizontal angle can be displayed through LED indicators
- The unit controller achieves one key operation, easy to operate and master
- "Operation" and "Calibrate Flight" are set for the control panel for easier use
- No condensation design ensures that there is no abnormal light output of lamps on the windshield in wet and dew weather
- The data of LED PAPI system can be uploaded to ALCMS directly with matched communication module
- Compact overall structure with small windward area and strong wind resistance
- The main body of the light fitting is made of corrosion-resistant aluminum alloy with anti-corrosion surface treatment. All fasteners are made of stainless steel, suitable for various harsh environments
- The aluminum alloy leg has the frangible function. After precision mechanical processing, it complies with the requirements of FAA, with stable and reliable performance
- IP66-grade ingress protection of the fixture, which could keep interior from dust
- Three leg type horizontal support and height adjustment structure, convenient and accurate on-site installation and adjustment
- Equipped with independent level in horizontal and longitudinal direction for convenient installation and maintenance
- The maximum windward area of the lighting fixture is 0.48m²
- The external plug of the lamp is A6 double core plug, which meets the requirements of FAA AC 5345-26, and matches with the output lead of isolation transformer

The service life of LED shall be at least 100,000 hours in the working environment with maximum light intensity level and full load, the light attenuation shall not be greater than 30%

Installation

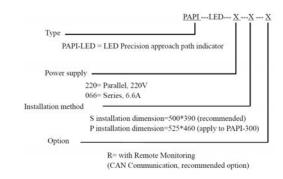


Size Method	X1	X2
S	500	460
P	525	390

*For detailed installation information, please refer to the product manual



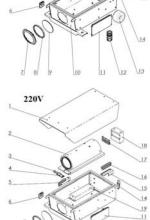
Ordering Information



* When ordering, please specify the installation method and height of the lamp. Spare parts and accessories shall be ordered separately and the order number shall be provided

Structure

- 1. Upper cover plate assy.
- 2. Optical lens assy.
- 3. Horizontal indicator
- 4. Digital display board
- 5. Longitudinal indicator
- 6. Refrigeration module
- 7. Seal pressing bracket
- 8. Glass sealing ring9. Front glass
- 10 D ---
- 10. Box
- 11. Driver
- 12. Hose connector
- 13. Transformer
- 14. Hasp
- 15. Bracket
- 16. Terminal block
- 17. LED light source assy
- 18. Light source holder
- 19. Switch power supply
- 20.Optical control circuit board
- 21. Optical control module



- 1. Flange
- 2. Landing leg
- 3. Front cover of landing leg
- 4. Tapping screw ST5.5
- 5. Spring washer 16
- 6. Screw stem
- 7. Hex nut M16
- 8. Hex thin nut M16
- 9. Lower spherical washer
- 10. Upper spherical washer
- 11. Wave spring washer 16





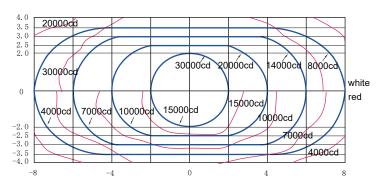
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Technical Parameter

Type	Environmental condition (inside the light box)	Power	Remarks
	Ambient temperature > 55 °C, ambient humidity < 45%	58W	Normal operation
	Ambient temperature < 55 °C, ambient humidity < 45%	64W	Normal operation, the additional electric heating module works
PAPI-LED-066 PAPI-LED-220	Ambient temperature > 55 °C, ambient humidity > 45%	64W	Normal operation, the additional demisting module works
	Ambient temperature < 55 °C, ansbient humidity > 45%	71W	Normal operation, additional electric heating & defogging modules work simultaneously

Photometric Data



Light intensity distribution of PAPI, ICAO figure A2-23, FAA L-880/L-881

Application		Main beam angle		Beam color	Required Min.	Actual Min.
11	1.1		V	COIOI	intensity	intensity
		L20	±2°	White	30000	81693
	ICAO Fig. ±2° A2-23			Red	15000	15509
		±4°	±2.5°	White	20000	65404
PAPI-	FAA L-		L- $\stackrel{\pm 4}{\text{L}}$	AA L- ±4 ±2.3	Red	10000
LED	LED 880/ L- 881 ICAO Fig. A2-6	±6°	±3°	White	14000	42597
				Red	7000	9461
		±8°	±3.5°	White	8000	16560
				Red	4000	7314

Packing Data

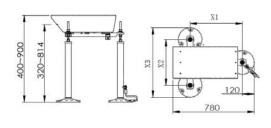
Dimension: 780×580×280 mm³ 1×LED PAPI unit

Gross weight: 35.0 kg

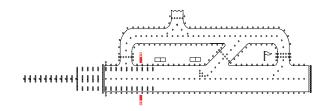
12×legs + 12×Flange plates Dimension: 835×540×290 mm³

Gross weight: 40.0kg

Dimensions



Method Size	X1	X2	X3
S (recommended)	500	390	630
P	525	460	700



Spare Parts

Box

No.	Name	Ordering No	Description	Qty
4	Digital display board	7911L	Angle display	1
11	Driver	7911D	Control board	1
13	Transformer	7912S	Toroidal transformer	1
16	Terminal block	48522	Terminal block	2
17	Light source assy	979247	LED 88*45 assy	4
20	Light control circuit board	7911N	220V power	1
21	Light control module	97911N	220V power	1

Leg assy

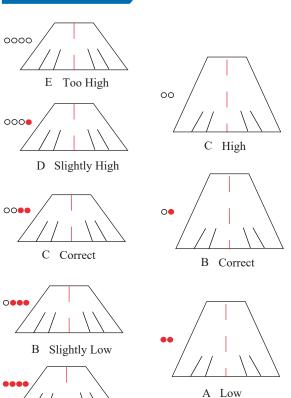
No.	Name	Ordering No.	Description	
1	Flange	276A1	Flange 240(G2-H35)	
2	Leg	46322	Leg (rear)	

^{*} Please refer to the operation manual for detailed information

Accessories

No.	Ordering No.	Description
. 1	ITF-100-066	100W isolation transformer
2	TJB-12	Isolation transformer box
3	HT 70603	A6 Dual plug

Instructions



A Too Low

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