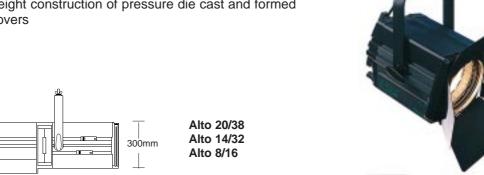


ALTOTM Fresnel, PC and profile spotlights 2000 & 2500W

Features

Each model in the Alto range has been designed to provide a winning combination of performance and controllability to establish Alto as the obvious lighting solution for the larger venue

- □ Designed around 2500W CP91 lamp for increased performance
- ☐ Range comprises fresnel and PC spot and three variable beam angle profile spots
- Profile spots incorporate articulated yoke and rotating gate for enhanced controllability
- □ All models feature microswitch isolated lamp change system for improved safety
- ☐ Easy to use lamp adjustment on profiles
- Durable yet lightweight construction of pressure die cast and formed sheet aluminium covers





Alto F Alto PC 300mm — 360mm — 545mm ---— 360mm − — 463mm —

28/30 - 805mm 14/32 - 995mm 8/16 - 1045mm

Weights and dimensions

— 360mm —

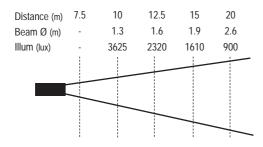
	Alto F	Alto PC	Alto 8/16	Alto 14/32	Alto 20/38
Weight	10.0kg	12.2kg	19.0kg	19.0kg	17.0kg
Packed Weight	12.0kg	13.0kg	18.5kg	18.5kg	17.5kg
Packed Volume	$0.10m^{3}$	$0.11 m^{3}$	$0.20 m^3$	$0.20 m^3$	$0.17m^{3}$



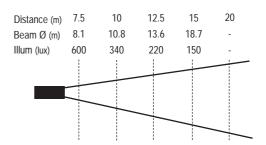
Photometric data

Typical performance based on laboratory readings using CP91 2500W lamp

Alto F: Spot



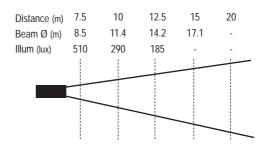
Alto F: Flood



Alto PC: Spot

Distance (m)	7.5	10	12.5	15	20	
Beam Ø (m)	-	8.0	1.0	1.2	1.6	
Illum (lux)	-	5620	3600	2500	1400	
						_

Alto PC: Flood



To calculate lux levels at any throw distance divide the following factors by the distance squared:

	Alto F	Alto PC	Alto 20/38	Alto 14/32	Alto 8/16
Spot/Narrow	362670	561900	236210	394450	621550
Flood/Wide	34240	28860	90145	135700	292290

e.g. Alto PC at full flood over 12m throw 28860/144 = 200Lux

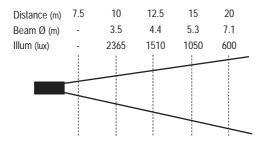
To calculate beam diameters at any throw distance multiply the throw in metres by the following factors:

	Alto F	Alto PC	Alto 20/38	Alto 14/32	Alto 8/16
Spot/Narrow	0.13	0.08	0.35	0.25	0.14
Flood/Wide	1 25	1 14	0.69	0.57	0.28

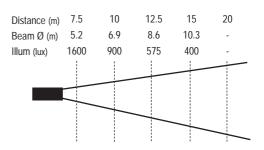
e.g. Alto PC at full flood over 12m throw $1.14 \times 12 = 13.68m$



Alto 20/38: Narrow (20°)



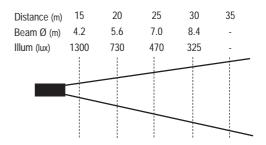
Alto 20/38: Wide (38º)



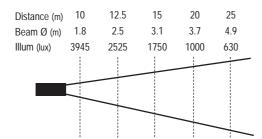
Alto 8/16: Narrow (8º)

Distance (m)	15	20	25	30	35
Beam Ø (m)	-	2.8	3.5	4.2	4.9
Illum (lux)	-	1560	1000	700	500
-					

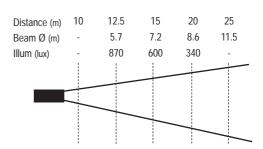
Alto 8/16: Wide (16º)



Alto14/32: Narrow (140)



Alto14/32: Wide (32º)





Operational features

Lamp Access

Rear catch releases drop down lower covers to give access to slide down lampholder assembly. Power is disconnected when lower covers open.

Focus Adjustment

F & PC:

By rotary control on front and rear of lamphouse

Profiles:

By locking screw handles on side of lens tubes with focus setting indication provided

Lamp Adjustment

Beam distribution on profiles adjusted by rotary control on rear of lamphouse. Lamp alignment adjusted by screwdriver on rear panel.

Suspension

Alto profiles are fitted with articulated fork to allow steep angles when hung from pipe. Alto F & PC are fitted with conventional forks.

Ordering information

Alto F & PC are supplied complete with 1.5m and Alto profiles with 3m of 2.5mm² cable terminated with fitted plug. All Alto spotlights are also supplied with metal colour frame and CP92 2000W lamp. 240V models come with 15A plug and 240V lamp. 230V models come with Schuko connector and 230V lamp.

	Cat No	Description	Optional lamps	al accessories & replacement
	12204	Alto F Mk2, 240V	19112	Barndoor, 4 leaf rotatable
	12203	Alto F Mk2, 230V	18202	Gobo Holder for 'A' size
	12214	Alto PC Mk2, 240V		gobos
	12213	Alto PC Mk2, 230V	18201	Iris, 18 leaf
	12124	Alto 8/16, 240V CP92	82011	Hook Clamp, heavy duty
	12123	Alto 8/16, 230V CP92	82001	Safety cable, heavy duty
	12134	Alto 14/32, 240V CP92	55001	Colour Call Scroller CC1
	12133	Alto 14/32, 230V CP92	18203	Additional colour frame, metal
	12144	Alto 20/38, 240V CP92	43924	CP91 Lamp 2500W, 3200K,
	12143	Alto 20/38, 230V CP92		400Hr - 240V
			43923	CP91 Lamp 2500W, 3200K,
				400Hr - 230V
			43924	Additional CP92 Lamp
				2000W, 3200K, 400Hr - 240V
			43923	Additional CP92 Lamp
				2000W, 3200K, 400Hr - 230V
- 1				

Accessories

Alto Mk2 F & PC accept a new four leaf rotating barndoor which will also fit Mk1 models. Alto profiles incorporate runners to accept a gobo holder for 'A' size gobos or an 18-leaf iris. All Alto spotlights have colour runners to take DIN standard 245 x 245 mm colour frames.

Mechanical/Electrical Data

Construction

Pressure die cast front and rear panels with extruded aluminium tie bars and formed aluminium cover panels all finished in two tone grey and black epoxy powder coating.

Gate/Lenstube

Pressure die cast gate assembly is rotatable through 220 and houses four removable beam shaping shutters and runners for gobo holder or iris.

Lenses

Heat resistant borosilicate lenses. F & PC lenses mounted in die cast front panel behind 25mm wire guard. Profile lenses housed in die cast carriers sliding on bearing rods.

Lampholder

G22 to take lamps of 90 mm LCL and maximum of 2500W

Supply Voltage

230V +/- 10% 50/60 Hz

Standards compliance

Designed to conform to EN 60 598 2-17

The Company reserves the right to make any variation in design or construction to the equipment described. © Strand Lighting Ltd 1998.

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