MINI SCAN HPE

CLAY PAKY

PROFESSIONAL SHOW LIGHTING

ENGLISH

If you are looking for a compact, powerful projector, which is innovative, elegant, packed with graphic features, capable of meeting any requirements from the most simple to the most complex, yet still within the scope of any budget, then MINI SCAN HPE is the answer to your dreams.

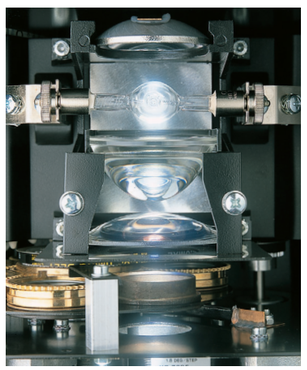
The excellent luminous efficiency and outstanding versatility of MINI SCAN HPE make it ideal, not just for discotheques, but also for theatres, television studios and service lighting installations.

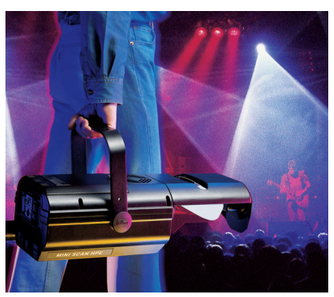
MINI SCAN HPE is an intelligent moving mirror luminaire which combines quality, advanced technology, reliability and a host of special effects in an extremely compact unit.

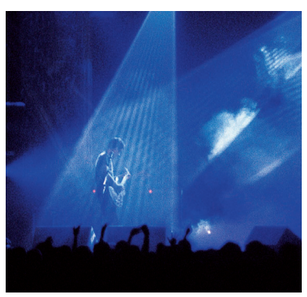
It is the perfect synthesis of all the features which have made Clay Paky's large professional scanners a world-wide success.

EXCEPTIONAL LUMINOUS EFFICIENCY

MINI SCAN HPE is so packed with power that it could only have been produced with the design flair and technical know-how of Clay Paky. The lamp-optical system combination provides almost double the luminous efficiency (+95%) of standard units; a result which is absolutely unique among moving mirror spotlights of this size, which means that the MINI SCAN HPE has all the power necessary for longer range applications while still offering a low power consumption.

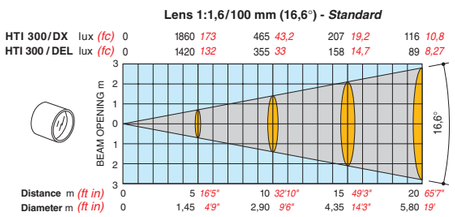






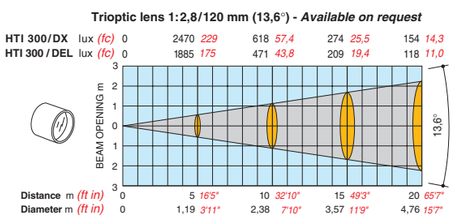
Lens 1:1,6/100 mm (16,6°) - *Standard*

HTI 300/DX	lux *(fc)*	0		1860 *173*		465 *43,2*		207 *19,2*	116 *10,8*
HTI 300 / DEL	lux *(fc)*	0		1420 *132*		355 *33*		158 *14,7*	89 *8,27*
Distance	m *(ft in)*	0	5 *16'5"*		10 *32'10"*		15 *49'3"*		20 *65'7"*
Diameter	m *(ft in)*	0	1,45 *4'9"*		2,90 *9'6"*		4,35 *14'3"*		5,80 *19'*



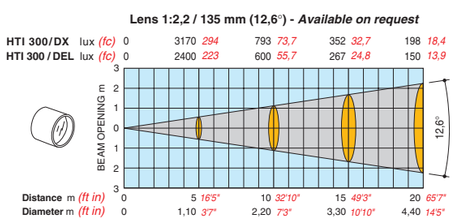
Trioptic lens 1:2,8/120 mm (13,6°) - *Available on request*

HTI 300/DX	lux *(fc)*	0		2470 *229*		618 *57,4*		274 *25,5*	154 *14,3*
HTI 300 / DEL	lux *(fc)*	0		1885 *175*		471 *43,8*		209 *19,4*	118 *11,0*
Distance	m *(ft in)*	0	5 *16'5"*		10 *32'10"*		15 *49'3"*		20 *65'7"*
Diameter	m *(ft in)*	0	1,19 *3'11"*		2,38 *7'10"*		3,57 *11'9"*		4,76 *15'7"*



Lens 1:2,2 / 135 mm (12,6°) - *Available on request*

HTI 300/DX	lux *(fc)*	0		3170 *294*		793 *73,7*		352 *32,7*	198 *18,4*
HTI 300 / DEL	lux *(fc)*	0		2400 *223*		600 *55,7*		267 *24,8*	150 *13,9*
Distance	m *(ft in)*	0	5 *16'5"*		10 *32'10"*		15 *49'3"*		20 *65'7"*
Diameter	m *(ft in)*	0	1,10 *3'7"*		2,20 *7'3"*		3,30 *10'10"*		4,40 *14'5"*



LAMP EFFICIENCY

MINI SCAN HPE uses a 300 watt Osram HTI 300/DX lamp, with a luminous flux of 22,000 lumen, an average life of 750 hours and a colour temperature of 6,500K. This extremely efficient and reliable lamp has been designed specifically for Clay Paky on the basis of professional HMI models. Alternatively, the long life lamp HTI 300/DEL (3,000 h) can be used.

PERFECT PROJECTION

The special design of the optical system with twin lens condenser and high luminous efficiency mirror ball, combined with the use of high quality components, means that, even at maximum aperture settings, the beam from the MINI SCAN HPE appears sharp and uniform over the entire illuminated surface. Image focusing is ensured by a standard lens with an aperture of 16,6°, which, if required, can be substituted with an optional 12,6° lens, or with an optional trioptic 13,6° lens.

THE COLOUR SYSTEM

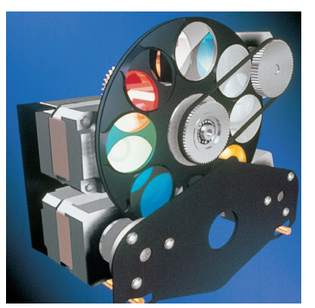
The colour system comprises a colour disc and a second effects disc which can be combined to obtain 36 different colour combinations.

All the colours are obtained through perfectly pure dichroic filters, which are freely interchangeable so that users can devise their own personalised "palette".

The effects disc contains a special blue colour filter and a filter to simulate Wood light.

The two colour temperature correction filters of 3,200 and 6,000K on the effects disc underline the suitability of MINI SCAN HPE for professional lighting applications.

The rotation speed of the colour wheel can be varied to obtain effects such as bicolour beams and a rainbow effect.



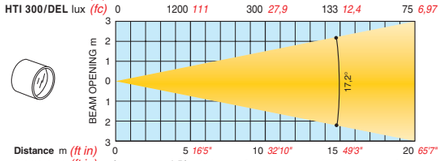
DIFFUSION EFFECT

The light beam from the MINI SCAN HPE can be diffused to create colour backgrounds for a highly suggestive theatrical effect.

Two different diffusion levels may be obtained using the two Frost filters fitted as standard on the effects disc.

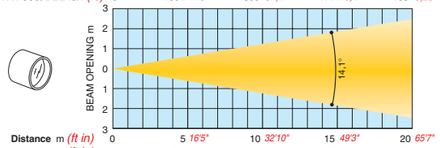
Standard lens 1:1,6/100 mm with Light Frost (17,2°)

HTI 300/DX	lux *(fc)*	0		1700 *158*		425 *39,5*		189 *17,6*	106 *9,85*
HTI 300/DEL	lux *(fc)*	0		1200 *111*		300 *27,9*		133 *12,4*	75 *6,97*
Distance	m *(ft in)*	0	5 *16'5"*		10 *32'10"*		15 *49'3"*		20 *65'7"*
Diameter	m *(ft in)*	0	1,50 *4'11"*		3,00 *9'10"*		4,50 *14'9"*		6,00 *19'8"*



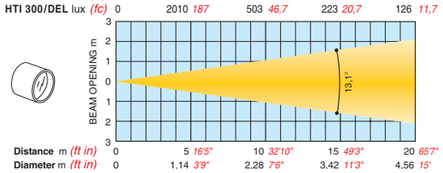
Trioptic lens 1:2,8 / 120 mm with Light Frost (14,1°)

HTI 300/DX	lux *(fc)*	0		2258 *210*		565 *52,5*		251 *23,3*	141 *13,1*
HTI 300/DEL	lux *(fc)*	0		1594 *148*		399 *37,1*		177 *16,4*	100 *9,29*
Distance	m *(ft in)*	0	5 *16'5"*		10 *32'10"*		15 *49'3"*		20 *65'7"*
Diameter	m *(ft in)*	0	1,23 *4'*		2,46 *8'1"*		3,69 *12'1"*		4,92 *16'2"*



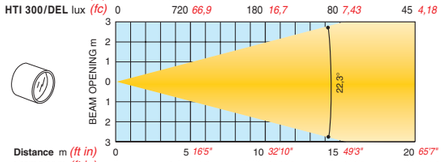
Lens 1:2,2 / 135 mm with Light Frost (13,1°)

HTI 300/DX	lux *(fc)*	0		2820 *262*		705 *65,5*		313 *29,1*	176 *16,4*
HTI 300/DEL	lux *(fc)*	0		2010 *187*		503 *46,7*		223 *20,7*	126 *11,7*
Distance	m *(ft in)*	0	5 *16'5"*		10 *32'10"*		15 *49'3"*		20 *65'7"*
Diameter	m *(ft in)*	0	1,14 *3'9"*		2,28 *7'6"*		3,42 *11'3"*		4,56 *15'*



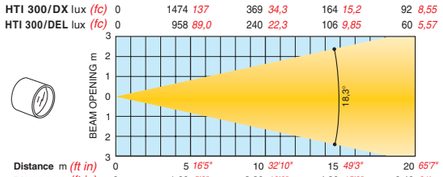
Standard lens 1:1,6 / 100 mm with Heavy Frost (22,3°)

HTI 300/DX	lux *(fc)*	0		1110 *103*		278 *25,8*		123 *11,4*	69 *6,41*
HTI 300/DEL	lux *(fc)*	0		720 *66,9*		180 *16,7*		80 *7,43*	45 *4,18*
Distance	m *(ft in)*	0	5 *16'5"*		10 *32'10"*		15 *49'3"*		20 *65'7"*
Diameter	m *(ft in)*	0	1,95 *6'5"*		3,90 *12'10"*		5,85 *19'2"*		7,80 *25'7"*



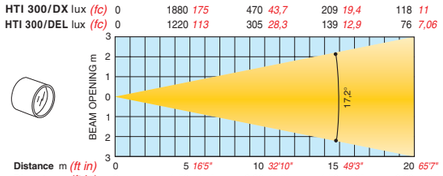
Trioptic lens 1:2,8 / 120 mm with Heavy Frost (18,3°)

HTI 300/DX	lux *(fc)*	0		1474 *137*		369 *34,3*		164 *15,2*	92 *8,55*
HTI 300/DEL	lux *(fc)*	0		958 *89,0*		240 *22,3*		106 *9,85*	60 *5,57*
Distance	m *(ft in)*	0	5 *16'5"*		10 *32'10"*		15 *49'3"*		20 *65'7"*
Diameter	m *(ft in)*	0	1,60 *5'3"*		3,20 *10'6"*		4,80 *15'9"*		6,40 *21'*



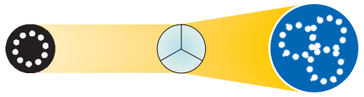
Lens 1:2,2 / 135 mm with Heavy Frost (17,2°)

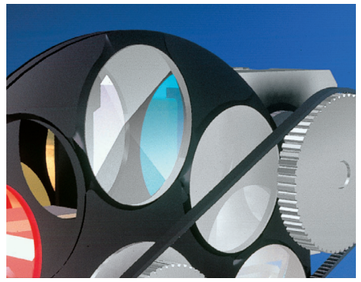
HTI 300/DX	lux *(fc)*	0		1880 *175*		470 *43,7*		209 *19,4*	118 *11*
HTI 300/DEL	lux *(fc)*	0		1220 *113*		305 *28,3*		139 *12,9*	76 *7,06*
Distance	m *(ft in)*	0	5 *16'5"*		10 *32'10"*		15 *49'3"*		20 *65'7"*
Diameter	m *(ft in)*	0	1,50 *4'11"*		3,000 *9'10"*		4,50 *14'9"*		6,00 *19'8"*



PRISM EFFECT

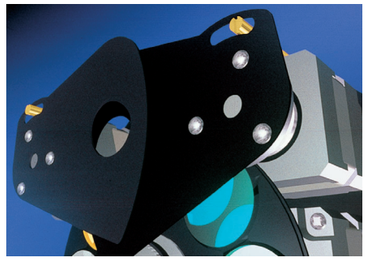
All the effects obtained with the gobos can be further enhanced by interposing the 3-way multiplier prism to create suggestive multiple images.





DIMMER, STOPPER, STROBE

The movement of the mechanical dimmer is smooth, gradual and precise, with linear adjustable movement from 0 to 100% and instantaneous beam blocking.
The strobe effect is highly spectacular, and can be adjusted from 1 to 11 flashes per second, with a blackout time of only 40 milliseconds.

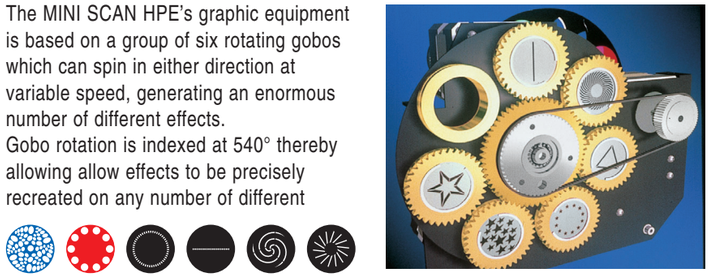


UNIQUELY COMPACT

When designing the MINI SCAN HPE, Clay Paky engineers excelled themselves; not only did they succeed in concentrating an enormous range of features and high-level performance in an extremely compact unit - they did so without compromising in any way the renowned reliability of all Clay Paky projectors.
The compact design means easy handling and easy installation and makes a significant contribution to the overall aesthetics of the lighting installation.

DYNAMIC GRAPHIC EFFECTS

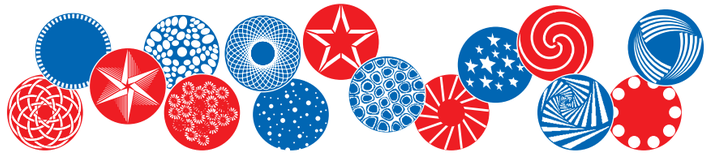
The MINI SCAN HPE's graphic equipment is based on a group of six rotating gobos which can spin in either direction at variable speed, generating an enormous number of different effects.
Gobo rotation is indexed at 540° thereby allowing allow effects to be precisely recreated on any number of different



projectors. The standard gobo system, which also comprises two dichroic gobos, can be modified to suit the specific needs of the user as all the gobos are fully interchangeable. The Clay Paky catalogue offers a wide choice of gobos and custom gobos are available on request.

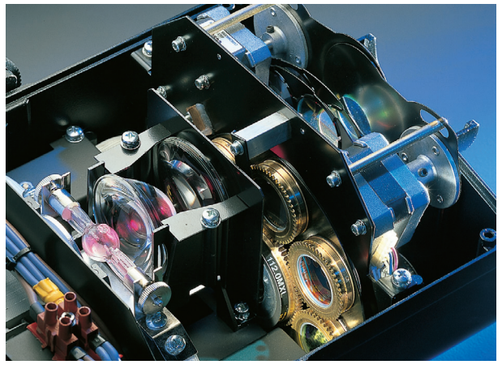
METAL GOBOS Ø 25,5 mm

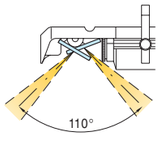
DICHROIC GOBOS Ø 25,5 mm

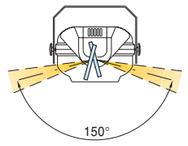


MIRROR

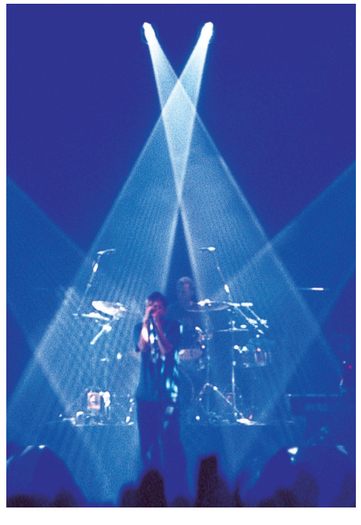
Mirror movement is smooth and gradual thanks to the high-resolution microstepping motors, and extends to 150° in pan and 110° in tilt, thereby providing ample coverage.



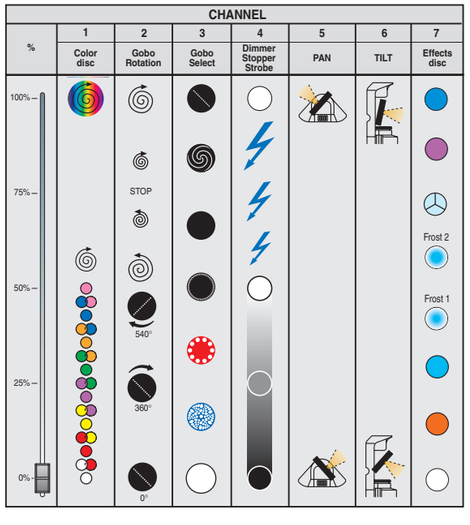




ACCURATE, RELIABLE ELECTRONICS



MINI SCAN HPE's electronic system is totally reliable, thanks to the experience of the electronics engineers at Pulsar; all projector functions are fully controlled from the lighting desk on seven channels using standard DMX and RS 232 (PMX) digital signals.



TECHNICAL CHARACTERISTICS

ELECTRO - MECHANICAL SPECIFICATIONS

POWER SUPPLY
- 220 - 240 V 50 / 60 Hz
- 100 - 120 V 50 / 60 Hz.

LAMP
- Metal iodide type, fed by built-in power supply unit;
- Type HTI 300 / DX: colour temperature 6,500 K, luminous flux 22,000 lumen, cap SFc 10-4, average life 750 h.
- Type HTI 300 / DEL: colour temperature 5,700 K, luminous flux 20,000 lumen, cap SFc 10-4, average life 3,000 h, working position P 45.

POWER CONSUMPTION
- 900 VA at 230 V 50 Hz;

MOTORS
- No. 8 microstepping motors with full microprocessor control.

OPTICAL SYSTEM

OPTICAL UNIT
- Base in die-cast aluminium;
- Twin lens condenser;
- High luminous efficiency mirror.

LENSES
- Standard: 1:1,6 / 100 mm (16,6°).
- Optional: 1:2,2 / 135 mm (12,6°).
- Optional trioptic: 1:2,8 / 120 mm (13,6°).

MIRROR HEAD

MIRROR
- Very high luminous efficiency.

MOVEMENT
- By means of two microstepping motors with microprocessor control.
- Continuously variable speed; maximum values:
  - PAN = 0,4 s (150°)
  - TILT = 0,3 s (110°).
- Continuous, uniform movement; resolution:
  - PAN ± 0,3° (150°)
  - TILT ± 0,2° (110°).

CONTROL SYSTEMS

CHANNELS
- No. 7 control channels.

INPUTS
MINISCAN HPE is designed to accept digital control signals from controllers or computers.
- Digital serial inputs: RS 232 / 423 (PMX) or DMX 512.

CONSTRUCTION

SAFETY DEVICES
- Automatic power-down in the case of overheating or cooling system failure.
- Automatic power-down when cover is opened.
- Two safety rope fixing points

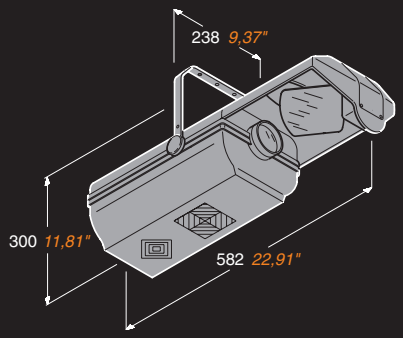
COOLING
- Forced ventilation supplied by axial fans.

HOUSING
- In die-cast aluminium with epoxy powder coating.

MOUNTING BRACKET
- Steel with epoxy powder coating.
- Two installation positions spaced at 50 mm (1,97").
- Adjustable through 110°.
- Fastening point for safety rope.

OPERATING POSITION
- Operation in any position, limited to the specifications of the lamp used.

WEIGHTS AND DIMENSIONS
- 582 x 238 x 300 mm.
- Version 200-240 V: 13 kg (28 lbs 10 ozs).
- Version 100-120 V: 16 kg (35 lbs 3 ozs).



ORDER CODES

C11085	Mini Scan HPE 200-240 V
C 11086	Mini Scan HPE 100-120 V
C 31107	Optional trioptic lens 1:2,8 / 120 mm
C 31147	Optional lens 1:2,2 / 135 mm
L 10043	Osram HTI 300 / DX lamp
L 10051	Osram HTI 300 / DEL lamp

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