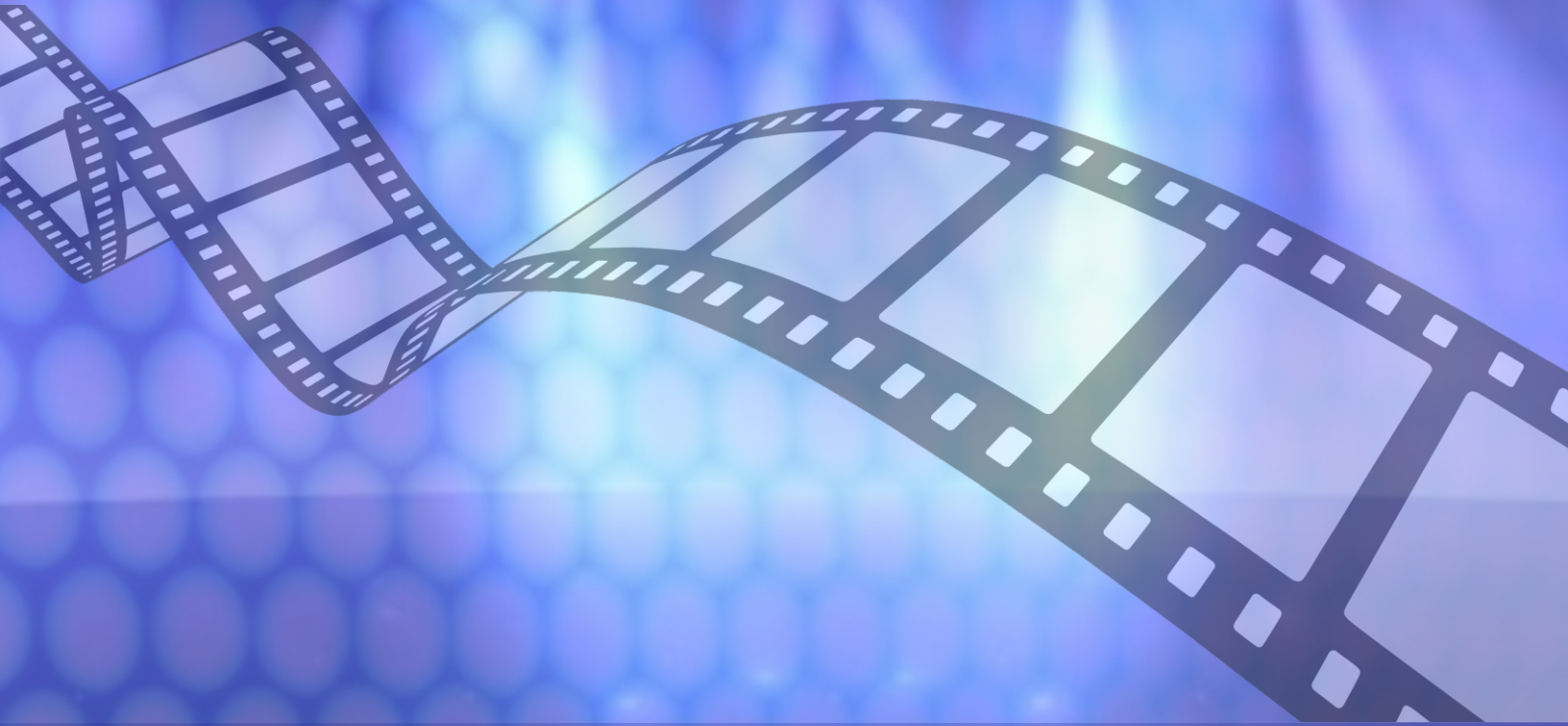
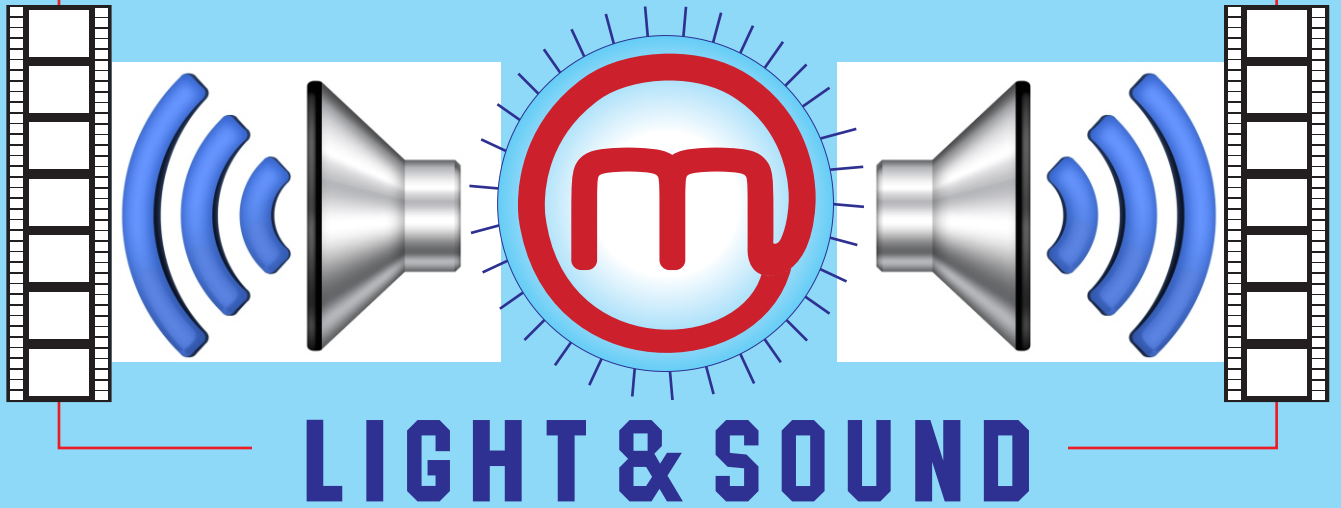


MAHAVEER ENTERPRISES



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G-9, No: 17, Meeran Sahib Street,
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AUTHORISED CHANNEL PARTNER

OSRAM

DIGITAL CINEMA PROJECTOR LAMPS
2K, 4K, 3D

OSRAM LAMPS

For :

Barco

Christie

NEC

Sony

QUBE :

K SERA SERA

Delta
Nano
Ray Photon XE / XL
Ray Luxon
Projector Lamps

Eiki

PXD :

UFO :

Barco RLM W8
Barco RLM W6

Panasonic
Morphious

3D CINEMA SYSTEM FOR 2K, 4K & 6K LASER

**Ultra High Brightness
Cinema
3D Glasses**



Disney Approved

OSRAM

P-VIP E CINEMA PROJECTOR LAMP

Model : P-VIP 330
Warranty : Pro-Rated 500 hrs
Projector : Barco RLM W8
Ray Photon / Ray Luxon
K Sera Sera



Model : P-VIP 300
Warranty : Pro-Rated 500 hrs
Projector : Delta / Ray Photon
Barco

Model : P-VIP 280
Warranty : Pro-Rated 500 hrs
Projector : Barco RLM W6
Nano / Ray Photon / EIKI



Model For : NEC NC900C
Warranty : Pro-Rated 1000 hrs
Projector For : NEC

OSRAM



OSRAM XBO®

OSRAM XBO® technical data

Product reference	Product number	Warranty	Service warranty	Rated wattage	Minimum power	Maximum power	Minimum current	Maximum current
XBO® 1200W/DHP	4008321396433	3000	3500	1200	840	1200	41	63
XBO® 1600W/DHP	4052899254831	3000	3300	1600	1120	1600	55	85
XBO® 2000W/DHP	4052899013056	2400	3000	2000	1400	2000	64	95
XBO® 2000W/DHP L	4052899275638	3300	3500	2000	1400	2000	60	90
XBO® 2200W/DHP	4008321865489	1500	1800	2200	1540	2200	68	95
XBO® 2500W/DHP	4052899010413	1700	2000	2500	1700	2500	63	95
XBO® 3000W/DHP	4008321300048	1500	1900	3000	2100	3000	77	113
XBO® 3000W/DHP L	4052899212886	1700	2000	3000	2100	3000	76	111
XBO® 4000W/DHP	4052899091825	1100	1400	4000	2940	4200	91	130
XBO® 4000W/DHP L	4052899212879	1300	1500	4000	2940	4200	95	137
XBO® 3000W/DHS	4008321330017	1500	2000	3000	2100	3000	79	115
XBO® 4500W/DHP	4008321633422	1000	1300	4500	3150	4500	108	155
XBO® 4500W/DHP L	4052899343344	1300	1500	4500	3150	4500	108	155
XBO® 6000W/DHP	4052899144026	650	800	6000	4500	6000	140	175
XBO® 6000W/DHP L	4052899343405	800	1000	6000	4500	6000	140	175
XBO® 6500W/DHP	4008321676078	500	750	6500	5000	6500	133	173
XBO® 1800W/DTS	4052899343276	1750	2000	1800	1260	1800	50	83
XBO® 2000W/DTS	4052899308862	1000	1300	2000	1400	2000	60	90
XBO® 2000W/DTP	4008321191533	2400	3000	2000	1400	2000	50	85
XBO® 2000W/DTP L	4052899287884	3000	3300	2000	1400	2000	64	95
XBO® 2100W/DTS	4052899376328	1000	1300	2100	1610	2100	60	85
XBO® 3000W/DTP	4008321191540	1500	1900	3000	2100	3000	90	120
XBO® 3000W/DTS	4008321645050	1000	1300	3000	2100	3000	77	113
XBO® 4500W/DTP	4008321372734	1000	1300	4500	3150	4500	108	155
XBO® 4500W/DTP L	4052899343399	1300	1500	4500	3150	4500	108	155
XBO® 6000W/DTP	4052899143975	600	750	6000	4500	6000	140	175
XBO® 6000W/DTP L	4052899343429	800	1000	6000	4500	6000	140	175
XBO® 2000W/HPS	4052899013063	2700	3000	2000	1400	2000	60	87
XBO® 2000W/HPS L	4052899287761	3000	3300	2000	1400	2000	60	87
XBO® 3000W/HPS	4052899213630	1000	1300	3000	1500	3000	77	113
XBO® 4200W/HPS	4052899202092	700	800	4200	2100	4200	73	137
XBO® 4200W/HPS L	4052899202108	1000	1200	4200	2100	4200	69	131
XBO® 1200W/HPN	4008321741547	3000	3500	1200	840	1200	40	63
XBO® 2000W/HPN	4052899013070	2400	3000	2000	1400	2000	60	85
XBO® 2000W/HPN L	4052899263437	3000	3300	2000	1400	2000	60	85
XBO® 3000W/HPN	4008321756589	1500	1900	3000	2100	3000	77	108
XBO® 3000W/HPN L	4052899301528	1700	2000	3000	2100	3000	76	105
XBO® 4000W/HPN	4052899091931	650	750	4000	2900	4000	90	125
XBO® 4000W/HPN L	4052899134829	1100	1400	4000	2800	4000	90	125
XBO® 4500W/HPN	4008321756657	1000	1300	4500	3150	4500	108	150
XBO® 4500W/HPN L	4052899343351	1300	1400	4500	3150	4500	108	150
XBO® 6000W/HPN	4052899136373	650	800	6000	4500	6000	135	167
XBO® 6000W/HPN L	4052899343412	800	1000	6000	4500	6000	135	167

OSRAM



OSRAM XBO®

OSRAM XBO® cross reference list

**Product
reference**

Projector type

BARCO projectors

XBO® 1200W/DHP	8S, 10S, 12C, 15C, 20C, 19B, 23B, (32B)
XBO® 1600W/DHP	8S, 10S, 12C, 15C, 20C, 19B, 23B, (32B)
XBO® 2000W/DHP	10S, 12C, 15C, 20C, 19B, 23B, (32B)
XBO® 2000W/DHP L	10S, 12C, 15C, 20C, 19B, 23B, (32B)
XBO® 2200W/DHP	10S, 12C, 15C, 20C, 19B, 23B, (32B)
XBO® 2500W/DHP	15C, 20C, 19B, 23B, (32B)
XBO® 3000W/DHP	15C, 20C, 19B, 23B, (32B)
XBO® 3000W/DHP L	15C, 20C, 19B, 23B, (32B)
XBO® 4000W/DHP	20C, 19B, 23B, (32B)
XBO® 4000W/DHP L	20C, 19B, 23B, (32B)
XBO® 3000W/DHS	32B
XBO® 4500W/DHP	32B
XBO® 4500W/DHP L	32B
XBO® 6000W/DHP	32B
XBO® 6000W/DHP L	32B
XBO® 6500W/DHP	32B

CHRISTIE projectors

XBO® 1800W/DTS	CP2210, CP2215, CP2000M
XBO® 2000W/DTS	CP2210, CP2215, CP2000M
XBO® 2000W/DTP	CP2220, CP4220, CP2230, CP4230, CP2000ZX, CP2000SB/XB/SX
XBO® 2000W/DTP L	CP2220, CP4220, CP2230, CP4230, CP2000ZX, CP2000SB/XB/SX
XBO® 2100W/DTS	Solaria One , One+
XBO® 3000W/DTP	CP2220, CP4220, CP2230, CP4230, CP2000ZX, CP2000SB/XB/SX
XBO® 3000W/DTS	CP2220, CP4220, CP2230, CP2000ZX
XBO® 4500W/DTP	CP2230, CP4230, CP2000SB/XB/SX
XBO® 4500W/DTP L	CP2230, CP4230, CP2000SB/XB/SX
XBO® 6000W/DTP	CP2230, CP4230, CP2000SB/XB/SX
XBO® 6000W/DTP L	CP2230, CP4230, CP2000SB/XB/SX

SONY projectors

XBO® 2000W/HPS	SRX-R320, SRX-R220
XBO® 2000W/HPS L	SRX-R320, SRX-R220
XBO® 3000W/HPS	SRX-R320, SRX-R220
XBO® 4200W/HPS	SRX-R320, SRX-R220
XBO® 4200W/HPS L	SRX-R320, SRX-R220

NEC projectors

XBO® 1200W/HPN	1200C, 1600C, 2000C
XBO® 2000W/HPN	1200C, 1600C, 2000C
XBO® 2000W/HPN L	1200C, 1600C, 2000C
XBO® 3000W/HPN	1600C, 2000C
XBO® 3000W/HPN L	1600C, 2000C
XBO® 4000W/HPN	1600C, 2000C
XBO® 4000W/HPN L	1600C, 2000C
XBO® 4500W/HPN	2500S, 3200S, 3240S
XBO® 4500W/HPN L	2500S, 3200S, 3240S
XBO® 6000W/HPN	2500S, 3200S, 3240S
XBO® 6000W/HPN L	2500S, 3200S, 3240S



Troubleshooting tips

Unexpected decreased LAMP LIFE

XBO® lamps usually reach the end of their life through wear of the electrodes, as this will lead to an increase of flickering and decrease of light output. In case of early lamp failure, the respective sections provide help for troubleshooting. This should be carefully checked before a new lamp is installed.

Lamp does not ignite

If the lamp does ignite poorly or not at all the following has to be checked:

- Is the lamp type suitable for this projector?
- Is the lamp correct fitted regarding the installation instruction provided by projector and lamp manufacturer?
- Is the power lead between lamp and lamp house connected?
- Have you set the correct lamp type in the projector menu?
- Has the lamp already reached the end of life time?
- Does the cooling system work sufficient?
- Does the projector run with the latest software?

Visible Flickering on screen

If flicker is observed after installing a new lamp, the following has to be checked:

- Is the lamp type suitable for this projector?
- Has the lamp been turned on for at least 10 minutes, to obtain thermal stabilization?
- Have you set the correct lamp type in the projector menu?
- Is the lamp being operated within the correct projector settings for current and power range?
- Please check for strong vibration by lamp cooling and exhaust fans?
- Is the lamp correctly adjusted within the optical system (reflector)?

If flicker is observed during lamp lifetime, the previous and the followings need to be checked:

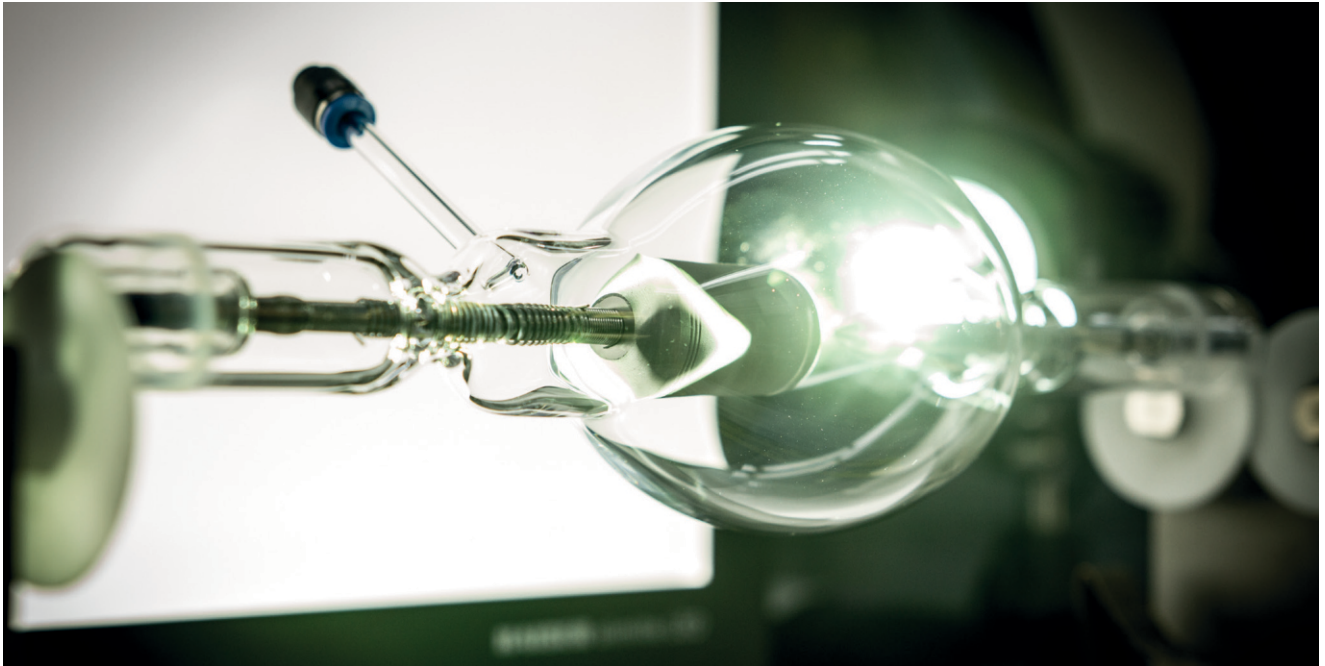
- Adjust the lamp one more time in the optical system (reflector)! Due to the burn back effect of the electrode the brightest point of the light arc will shift out of alignment within the reflector focus
- Set the lamp power to at least 85% of maximum power





OSRAM

OSRAM XBO®



Discoloration of lamp bases, cable and cable lugs

XBO® lamps produce an extremely high level of heat. Most of the heat must be dissipated by convection and radiation. Thermal blockages and excessive temperatures must be avoided.

If the upper limit of 230°C is exceeded, the lamp bases and cable discolour from light yellow till brown and blue.

- Check the lamp cooling and exhaust fans
- Check air filters for lamp cooling, they may be blocked
- Loose screws or insufficient electrical cable connection are decreasing the contact
- Wrong electrical current and lamp power settings
- Check the adjustment of the lamp in the optical system (reflector)

Due to an incorrect lamp adjustment in the optical system, emitted radiation could focus on lamp bases and cable.

Burst lamp

XBO® lamps are made of quartz glass and have a high internal pressure (about 60 bar in operation). However, they are very safe and burst lamps are rare. Possible reasons for a burst lamp:

- Lamp life exceeded over the Osram Service Warranty
- Incorrect lamp installation
- Wrong electrical current and lamp power settings
- Insufficient lamp cooling system, blocked air filters
- Scratches on the outer skin of the quartz
- Slightly damages by heavy shocks which were caused by rough transport
- Recrystallization on the surface of the quartz glass bulb caused by fingerprints which have not been removed
- Strong bulb blackening degrade the emission of radiation by the quartz bulb and causes a rise in lamp bulb temperature and pressure

Not enough light

If the initial light output is too low or has decreased rapidly, the following must be checked:

- Is the lamp type suitable for this projector?
- Does the lamp have turned on for at least 10 minutes, to obtain the initial brightness?
- Have you set the correct lamp type in the menu?
- Is the lamp being operated within the correct Lamp current and power range?
- Is strong bulb blackening visible?
- Is the optical system (reflector, lenses) very dusty and soiled?
- Is the lamp correctly adjusted to the optical system (reflector)?

OSRAM XBO® Cross Reference for BARCO Digital Cinema Projectors

Product Name	Product Number	Warranty Lifetime (hrs)*	Service Warranty Lifetime (hrs)**
DP2K/DP4K-19B 1,2 DMD			
XBO 1200W/DHP	4008321396433	3000	3500
XBO 2000W/DHP	4052899013056	2400	3000
XBO 3000W/DHP	4008321300048	1500	1900
XBO 4000W/DHP	4052899091825	1100	1400
DP2K/DP4K-23B 1,2 DMD			
XBO 1200W/DHP	4008321396433	3000	3500
XBO 2000W/DHP	4052899013056	2400	3000
XBO 3000W/DHP	4008321300048	1500	1900
XBO 4000W/DHP	4052899091825	1100	1400
DP2K/DP4K-32B 1,2 DMD			
XBO 1200W/DHS	4008321330017	1500	2000
XBO 4500W/DHP	4008321633422	1000	1300
XBO 6000W/DHP	4052899144026	650	800
XBO 6500W/DHP	4008321676078	500	750

OSRAM XBO® Cross Reference for Christie Digital Cinema Projectors¹

Product Name	Product Number	Warranty Lifetime (hrs)*	Service Warranty Lifetime (hrs)**
CP2220 , CP4220 1,2 DMD			
XBO 2000W/DTP	4008321191533	2400	3000
XBO 3000W/DTP	4008321191540	1500	1900
XBO 3000W/DTS	4008321645050	1000	1300
CP2230 , CP4230 1,2 DMD			
XBO 2000W/DTP	4008321191533	2400	3000
XBO 3000W/DTP	4008321191540	1500	1900
XBO 4500W/DTP	4008321372734	1000	1300
XBO 6000W/DTP	4008321549709	600	750

1) Christie d cinema projectors, launched April 2010
Proper XBO® lamp operation in the limits of the technical data sheet are mandatory, only in this case lamp warranty is given.

OSRAM XBO® Cross Reference for BARCO Digital Cinema Projectors

Product Name	Product Number	Warranty Lifetime (hrs)*	Service Warranty Lifetime (hrs)**
DP2K-10Sx/8Sx 0,69 DMD			
XBO 1200W/DHP	4008321396433	3000	3500
XBO 2000W/DHP	4052899013056	2400	3000
XBO 2200W/DHP	4008321865489	1500	1800
DP2K/DP4K-12C 0,98 DMD			
XBO 1200W/DHP	4008321396433	3000	3500
XBO 2000W/DHP	4052899013056	2400	3000
DP2K-15C 0,98 DMD			
XBO 1200W/DHP	4008321396433	3000	3500
XBO 2000W/DHP	4052899013056	2400	3000
XBO 3000W/DHP	4008321300048	1500	1900
XBO 4000W/DHP	4052899091825	1100	1400
DP2K-11CX 0,98 DMD			
XBO 1200W/DHP	4008321396433	3000	3500
XBO 2000W/DHP	4052899013056	2400	3000
XBO 3000W/DHP	4008321300048	1500	1900
XBO 4000W/DHP	4052899091825	1100	1400
DP2K-18CX 0,98 DMD			
XBO 1200W/DHP	4008321396433	3000	3500
XBO 2000W/DHP	4052899013056	2400	3000
XBO 3000W/DHP	4008321300048	1500	1900
XBO 4000W/DHP	4052899091825	1100	1400
DP2K-20C 0,98 DMD			
XBO 1200W/DHP	4008321396433	3000	3500
XBO 2000W/DHP	4052899013056	2400	3000
XBO 3000W/DHP	4008321300048	1500	1900
XBO 4000W/DHP	4052899091825	1100	1400

Proper XBO® lamp operation in the limits of the technical data sheet are mandatory, only in this case lamp warranty is given.

Cinema Speakers & Diaphragm



SINCE 1991



For JBL 2446 | 2450
Model : 2490 | 2426

For DAS K 8 | K 10
For Beyma, B&C



For Selenium
Model : 4400

For Electrovoice DH 1A
EV Model : DH 2A



Digital Cinema Processor



TONYLEE®

TECHNOLOGY FOR SOUND EVOLUTION

HD Professional Amplifier



Audiocenter

Dynamic Audio Solutions

Professional Amplifier



Specifications	HD 6	HD 8	PRO 9.0	PRO 12.0
8 ohm stereo	2 X 550 W	2 X 700 W	2 X 1000 W	2 X 1200 W
4 ohm stereo	2 X 920 W	2 X 1150 W	2 X 1500 W	2 X 1800 W
2 ohm stereo	2 X 1100 W	2 X 1400 W	2 X 1950 W	2 X 2000 W
8 ohm bridge	1650 W	2100 W	3000 W	3600 W
4 ohm bridge	2500 W	3000 W	3900 W	4000 W



SYSTEM PASSIVE POLARIZED

Triple Optical Recycling system

Disney Approved



3D-HCBL-CH600(vertical type)

For very narrow screening room,
Upper and lower height adjustment to
facilitate 3D and 2D conversion.

Single polarization system

High Optical Efficiency Automatic Operation

HCBL-P5000

Slide rail size:550*100*100mm

Chassis dimensions:480*280*45mm

Light valve size:265*185mm

TMS support

light transmittance 38%±1

optical efficiency 18%±1

ghost<0.8%

