

Technical Specifications of O.T. light for Urology

- Items :- A) LED Surgical Ceiling mounted light – (1 No.)
B) Full HD Camera – (1 No.)
C) Full HD Medical Monitor Flat, with stand – (1 No.)

Specifications of the parts of the items :-

Specification for LED Surgical Ceiling mounted light

I). Ceiling suspensions for light cupola :-

1. Double suspensions for two light cupola.
2. Single fork including two extension arms and two spring arms with full HD camera mounted on one of the suspension arm, in the center of the light head.

II). LED light cupola- (Two nos.) :-

1st cupola (Main light head) :-

1. Illumination (lx) :- 160,000
2. Field diameter (cm) :- within the range from 20 to 38
3. Depth of the volume of light L1 + L2 (cm) :- within the range from 105 to 110
4. Colour temperature (K) :- Fixed : 3,900/4,300
or Adjustable at three levels from 3,900 to 5,100
5. Colour rendering index (CRI) (Ra) :- 95
6. Irradiance(W/m²) :- < 500
7. Intensity control % 25 to 100
8. LED Service life (h) :- >60,000
9. Power lighthouse consumption (W) :- 60 to 100
10. Field focusing control by control panel or sterizable handle.
11. Intensity control by control panel or sterizable handle.
12. ISO certified or CE certified.
13. 5 years warranty.



2nd cupola (Satellite light head) :-

1. Illumination (lx) within the range from 120,000 to 160,000
2. Field diameter (cm) within the range from 20 to 38
3. Depth of the volume of light L1 + L2 (cm) within the range from 105 to 110
4. Colour temperature (K) :- Fixed : 3,900/4,300
or Adjustable at three levels from 3,900 to 5,100
5. Colour rendering index (CRI) (Ra) :- 95
6. Irradiance (W/m^2) :- <500
7. Intensity control % 25 to 100
8. LED Service life (h) :- >60,000
9. Power lighthouse consumption (W) :- 60 to 100
10. Field focusing control by control panel or sterizable handle.
11. Intensity control by control panel or sterizable handle.
12. ISO certified or CE certified.
13. 5 years warranty.



III) Full HD camera wireless (to be fixed to one of the light cupola) :-

HD camera specifications

1. CCD Sensor within the range from 1/2.8" to 1/4" Cmos
2. Signal system :- 1080p
3. Effective number of pixels :- 380,000 (NTSC) or 440,000 (PAL)
4. Horizontal resolution (at center) -- Standard
5. Aspect Ratio :- 16:9
6. S/N ratio (db) :- >50
7. Lens (zoom range) within the range from 34x to 36 x optical zoom
8. Focal length (mm) :- f= within the range from 3.4 to 122.4
9. Mini. working distance (mm) :- 320(wide end) to 1500(tele end)
10. Aperture :- F1.6 to F4.5
11. Sensitivity (lx) :- 1.4(F1.6, 50 IRE)
12. Antiflicker :- bult-in
13. Autofocus :- bult-in
14. Freeze :- bult-in
15. Contrast Enhancement :- bult-in
16. Location of camera :- Center of the lighthouse / Separate arm
17. White balance :- Auto / manual
18. Foot control :- optional
19. Control box with or without remote controller
20. Video signal outputs :- HD, SDI, Composite, Network from control box
21. Serial link interface :- RS-232 / RS-485
22. ISO certified or CE certified
23. 5 years warranty
24. Other advanced features .



IV) 26" Full HD Medical Monitor, Flat, with stand :-

Specifications :-

1. LCD panel , 26" display , LED Backlight.
2. Pixel Pitch (in mm) :- 0.3
3. Resolution :- 2 MP(1920 x 1080)
4. Aspect ratio :- 16:9
5. Colour imaging should be there
6. Colour support should be above 1 billion
7. Viewing angle :- 178°
8. Maximum Brightness should be within the range from 400 to 500 cd/m²
9. Contrast ratio :- 1000 : 1
10. Video inputs (I) :- DVI /DVII , HD , SDI ,RGB / YpBP , Composite
11. Video outputs :- DVI/DVII, SDI, HD , RGSB /YPbPr
12. OSD languages should have English
13. A remote to control the monitor
14. Picture in Picture (PIP) :- Yes, multi modality,
15. Dimensions without stand should be within the range (WxHxD) 633 to 643 x 395 to 411 x 87 to 90 mm .
16. Net weight without stand should be 7.7 kg to 9.5 kg.
15. Power consumption should be within 60 W to 120 W.
16. Nominal voltage :- 100-250V
17. Mounting standard should be VESA (100 mm)
18. Should be ISO certified or CE certified or EU certified
19. 5 years warranty.
20. Medically approved :- Class 1

