

ISO9001:2000
ISO13485:2008



ZF Series
Integral Reflection
Shadowless Operating Lamp



SHANGHAI HUIFENG MEDICAL INSTRUMENT CO., LTD.

ZF700/700-TV Shadowless Operating Lamp(Camera on the handle)



Technical Data

Definition-----	≥600TVL
SNR-----	≥46db
Camera shooting distance(m) -----	Main Vidicon:0.8~2 Panorama vidicon:1~10
Input power(W)-----	900
Power supply voltage-----	220V,50Hz-60Hz/110V,60Hz
Foci -----	F3.66~91.36mm
Double ratio-----	22double
Video frequency export-----	1.0Vp-p75 Ω
Vidicon power supply-----	12VDC±10%
Video frequency transceiver-----	plast-off frequency 1.2GHz
Illuminance(Lux) -----	80,000 ~ 150,000 ----- 80,000 ~ 150,000
Color temperature(K) -----	4000±500
Spot diameter(mm)-----	160~280
Illuminance depth(mm)-----	≥1000
Brightness adjustment -----	8-stage continuous light adjustment
Rendering index up(Ra) -----	94
24V Bulb power(W)-----	150/150
Shift of major and stand by lamps-----	Automatic
Lowest height of installation(mm) -----	3100



ZF700/500-TV Shadowless Operating Lamp(Camera)



★ Cinerama camera



★ worktable

Technical Data

Definition-----	≥600TVL
Camera shooting distance(m) -----	Main Vidicon:0.8~2 Panorama vidicon:1~10
Input power(W)-----	900
Power supply voltage-----	220V,50Hz-60Hz/110V,60Hz
Foci -----	F3.66~91.36mm
Double ratio-----	22double
Video frequency export-----	1.0Vp-p75 Ω
Vidicon power supply-----	12VDC±10%
Video frequency transceiver-----	plast-off frequency 1.2GHz
Illuminance(Lux) -----	80,000 ~ 150,000 60,000 ~ 120,000
Color temperature(K) -----	4000±500
Spot diameter(mm)-----	160~280
Illuminance depth(mm)-----	≥1000
Brightness adjustment -----	8-stage continuous light adjustment
Rendering index up(Ra) -----	94
24V Bulb power(W)-----	150/150
Shift of major and stand by lamps-----	Automatic
Lowest height of installation(mm) -----	3100



ZF700/700-TV Shadowless Operating Lamp



★ Cinerama camera



★ worktable

Technical Data

Definition-----	≥600TVL
SNR-----	≥46db
Camera shooting distance(m) -----	Main Vidicon:0.8~2 Panorama vidicon:1~10
Input power(W)-----	900
Power supply voltage-----	220V,50Hz-60Hz/110V,60Hz
Foci -----	F3.66~91.36mm
Double ratio-----	22double
Video frequency export-----	1.0Vp-p75 Ω
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Illuminance(Lux) -----	80,000 ~ 150,000 80,000 ~ 150,000
Color temperature(K) -----	4000±500
Spot diameter(mm)-----	160~280
Illuminance depth(mm)-----	≥1000
Brightness adjustment -----	8-stage continuous light adjustment
Rendering index up(Ra) -----	94
24V Bulb power(W)-----	150/150
Shift of major and stand by lamps-----	Automatic
Lowest height of installation(mm) -----	3100



ZF700/700 Shadowless Operating Lamp (Import components)



Technical Data

Illuminance(Lux)-----	80,000 ~ 150,000
-----	80,000 ~ 150,000
Color temperature-----	4000±500
Spot diameter(mm)-----	160~280
Illuminance depth(mm)-----	≥1000
Brightness adjustment-----	8-stage continuous light adjustment
Total irradiance-----	426W/m ²
The ratio between irradiance and illuminance -----	≤ 3.3mW/m ² lx
Color reduction index(Ra)-----	94
Power supply voltage-----	~220V/50Hz
Input power(W)-----	400
24V Bulb power(W)-----	150/150
Shift of major and stand by lamps-----	Automatic
Lowest height of installation (mm) -----	2900



ZF700/500 Shadowless Operating Lamp(Import components)



Technical Data

Illuminance(Lux)-----	700: 80,000 ~ 150,000
-----	500:60,000 ~ 120,000
Color temperature-----	4000±500
Spot diameter(mm)-----	160~280
Illuminance depth(mm)-----	≥1000
Brightness adjustment-----	8-stage continuous light adjustment
Total irradiance-----	700:426W/m ²
-----	500:580W/m ²
The ratio between irradiance and illuminance -----	700:≤ 3.3mW/m ² lx
-----	500:≤ 4.7mW/m ² lx
Color reduction index(Ra)-----	700:94
-----	500:93
Power supply voltage-----	~220V/50Hz
Input power(W)-----	400
24V Bulb power(W)-----	150/150
Shift of major and stand by lamps-----	Automatic
Lowest height of installation (mm) -----	2900



ZF500/500 Shadowless Operating Lamp(Import components)



Technical Data

Illuminance(Lux)-----	60,000 ~ 120,000
-----	60,000 ~ 120,000
Color temperature-----	4000±500
Spot diameter(mm)-----	160~280
Illuminance depth(mm)-----	≥1000
Brightness adjustment-----	8-stage continuous light adjustment
Total irradiance-----	580W/m ²
The ratio between irradiance and illuminance -----	4.7mW/m ² lx
Color reduction index(Ra)-----	93
Power supply voltage-----	~220V/50Hz
Input power(W)-----	400
24V Bulb power(W)-----	150/150
Shift of major and stand by lamps-----	Automatic
Lowest height of installation (mm) -----	2900



ZF700 Shadowless Operating Lamp(Import components)



Technical Data

Illuminance(Lux)-----	80,000 ~ 150,000
Color temperature-----	4000±500
Spot diameter(mm)-----	160~280
Illuminance depth(mm)-----	≥1000
Brightness adjustment-----	8-stage continuous light adjustment
Total irradiance-----	426W/m ²
The ratio between irradiance and illuminance -----	3.3mW/m ² lx
Color reduction index(Ra)-----	94
Power supply voltage-----	~220V/50Hz
Input power(W)-----	200
24V Bulb power(W)-----	150
Shift of major and stand by lamps-----	Automatic
Lowest height of installation (mm) -----	2900



ZF500 Shadowless Operating Lamp(Import components)



Technical Data

Illuminance(Lux)-----	60,000~120,000
Color temperature-----	4000±500
Spot diameter(mm)-----	160~280
Illuminance depth(mm)-----	≥1000
Brightness adjustment-----	8-stage continuous light adjustment
Total irradiance-----	580W/m ²
The ratio between irradiance and illuminance -----	4.7mW/m ² lx
Color reduction index(Ra)-----	93
Power supply voltage-----	~220V/50Hz
Input power(W)-----	200
24V Bulb power(W)-----	150
Shift of major and stand by lamps-----	Automatic
Lowest height of installation (mm) -----	2900



ZF700/700 Shadowless Operating Lamp (Domestical components)



Technical Data

Illuminance(Lux)-----	80,000~150,000
-----	80,000~150,000
Color temperature-----	4000±500
Spot diameter(mm)-----	160~280
Illuminance depth(mm)-----	≥1000
Brightness adjustment-----	8-stage continuous light adjustment
Total irradiance-----	426W/m ²
The ratio between irradiance and illuminance -----	≤ 3.3mW/m ² lx
Color reduction index(Ra)-----	94
Power supply voltage-----	~220V/50Hz
Input power(W)-----	400
24V Bulb power(W)-----	150/150
Shift of major and stand by lamps-----	Automatic
Lowest height of installation (mm) -----	2900



ZF700/500 Shadowless Operating Lamp(Domestical components)



Technical Data

Illuminance(Lux)-----	700: 80,000~150,000
-----	500: 60,000~120,000
Color temperature-----	4000±500
Spot diameter(mm)-----	160~280
Illuminance depth(mm)-----	≥1000
Brightness adjustment-----	8-stage continuous light adjustment
Total irradiance-----	700:426W/m ²
-----	500:580W/m ²
The ratio between irradiance and illuminance -----	700:≤ 3.3mW/m ² lx
-----	500:≤ 4.7mW/m ² lx
Color reduction index(Ra)-----	700:94
-----	500:93
Power supply voltage-----	~220V/50Hz
Input power(W)-----	400
24V Bulb power(W)-----	150/150
Shift of major and stand by lamps-----	Automatic
Lowest height of installation (mm) -----	2900



ZF500/500 Shadowless Operating Lamp(Domestical components)



Technical Data

Illuminance(Lux)-----	60,000~120,000
-----	60,000~120,000
Color temperature-----	4000±500
Spot diameter(mm)-----	160~280
Illuminance depth(mm)-----	≥1000
Brightness adjustment-----	8-stage continuous light adjustment
Total irradiance-----	580W/m ²
The ratio between irradiance and illuminance -----	4.7mW/m ² lx
Color reduction index(Ra)-----	93
Power supply voltage-----	~220V/50Hz
Input power(W)-----	400
24V Bulb power(W)-----	150/150
Shift of major and stand by lamps-----	Automatic
Lowest height of installation (mm) -----	2900



ZF700 Shadowless Operating Lamp(Domestical components)



Technical Data

Illuminance(Lux)-----	80,000~150,000
Color temperature-----	4000±500
Spot diameter(mm)-----	160~280
Illuminance depth(mm)-----	≥1000
Brightness adjustment-----	8-stage continuous light adjustment
Total irradiance-----	426W/m ²
The ratio between irradiance and illuminance -----	3.3mW/m ² lx
Color reduction index(Ra)-----	94
Power supply voltage-----	~220V/50Hz
Input power(W)-----	200
24V Bulb power(W)-----	150
Shift of major and stand by lamps-----	Automatic
Lowest height of installation (mm) -----	2900



ZF500 Shadowless Operating Lamp(Domestical components)



Technical Data

Illuminance(Lux)-----	60,000~120,000
Color temperature-----	4000±500
Spot diameter(mm)-----	160~280
Illuminance depth(mm)-----	≥1000
Brightness adjustment-----	8-stage continuous light adjustment
Total irradiance-----	580W/m ²
The ratio between irradiance and illuminance -----	4.7mW/m ² lx
Color reduction index(Ra)-----	93
Power supply voltage-----	~220V/50Hz
Input power(W)-----	200
24V Bulb power(W)-----	150
Shift of major and stand by lamps-----	Automatic
Lowest height of installation (mm) -----	2900



ZF600/600 Shadowless Operating Lamp



Technical Data

Illuminance(Lux)-----	60,000~130,000
-----	60,000~130,000
Color temperature-----	4000±500
Spot diameter(mm)-----	160~280
Illuminance depth(mm)-----	≥1000
Brightness adjustment-----	8-stage continuous light adjustment
Total irradiance-----	426W/m ²
The ratio between irradiance and illuminance -----	≤ 3.3mW/m ² lx
Color reduction index(Ra)-----	94
Power supply voltage-----	~220V/50Hz
Input power(W)-----	400
24V Bulb power(W)-----	150/150
Shift of major and stand by lamps-----	Automatic
Lowest height of installation (mm) -----	2900



ZF600 Shadowless Operating Lamp



Technical Data

Illuminance(Lux)-----	60,000~130,000
Color temperature-----	4000±500
Spot diameter(mm)-----	160~280
Illuminance depth(mm)-----	≥1000
Brightness adjustment-----	8-stage continuous light adjustment
Total irradiance-----	426W/m ²
The ratio between irradiance and illuminance -----	≤ 3.3mW/m ² lx
Color reduction index(Ra)-----	94
Power supply voltage-----	~220V/50Hz
Input power(W)-----	200
24V Bulb power(W)-----	150
Shift of major and stand by lamps-----	Automatic
Lowest height of installation (mm) -----	2900



ZF700/700 Shadowless Operating Lamp(Current Arm)



Technical Data

Illuminance(Lux)-----	80,000~150,000
-----	80,000~150,000
Color temperature-----	4000±500
Spot diameter(mm)-----	160~280
Illuminance depth(mm)-----	≥1000
Brightness adjustment-----	8-stage continuous light adjustment
Total irradiance-----	426W/m ²
The ratio between irradiance and illuminance -----	≤ 3.3mW/m ² lx
Color reduction index(Ra)-----	94
Power supply voltage-----	~220V/50Hz
Input power(W)-----	400
24V Bulb power(W)-----	150/150
Shift of major and stand by lamps-----	Automatic
Lowest height of installation (mm) -----	2600



ZF700 Shadowless Operating Lamp(Current Arm)



Technical Data

Illuminance(Lux)-----	80,000~150,000
Color temperature-----	4000±500
Spot diameter(mm)-----	160~280
Illuminance depth(mm)-----	≥1000
Brightness adjustment-----	8-stage continuous light adjustment
Total irradiance-----	426W/m ²
The ratio between irradiance and illuminance -----	≤ 3.3mW/m ² lx
Color reduction index(Ra)-----	94
Power supply voltage-----	~220V/50Hz
Input power(W)-----	200
24V Bulb power(W)-----	150
Shift of major and stand by lamps-----	Automatic
Lowest height of installation (mm) -----	2600



ZF500W Shadowless Operating Lamp(On wall)



Technical Data

Illuminance(Lux)-----	80,000~150,000
Color temperature-----	4000 ± 500
Spot diameter(mm)-----	160~280
Illuminance depth(mm)-----	≥ 1000
Brightness adjustment-----	8-stage continuous light adjustment
Total irradiance-----	$580\text{W}/\text{m}^2$
The ratio between irradiance and illuminance -----	$\leq 4.7\text{mW}/\text{m}^2\text{lx}$
Color reduction index(Ra)-----	93
Power supply voltage-----	$\sim 220\text{V}/50\text{Hz}$
Input power(W)-----	200
24V Bulb power(W)-----	150
Shift of major and stand by lamps-----	Automatic
Lowest height of installation (mm) -----	2300



ZF500S Shadowless Operating Lamp (On stand)



Technical Data

Illuminance(Lux)-----	60,000~120,000
Color temperature-----	4000±500
Spot diameter(mm)-----	160~280
Illuminance depth(mm)-----	≥1000
Brightness adjustment-----	8-stage continuous light adjustment
Total irradiance-----	580W/m ²
The ratio between irradiance and illuminance -----	≤ 4.7mW/m ² lx
Color reduction index(Ra)-----	93
Power supply voltage-----	~220V/50Hz
Input power(W)-----	200
24V Bulb power(W)-----	150
Shift of major and stand by lamps-----	Automatic



ZF500E Shadowless Operating Lamp (Emergency on stand)



Technical Data

Illuminance(Lux)-----	60,000~120,000
Color temperature-----	4000±500
Spot diameter(mm)-----	160~280
Illuminance depth(mm)-----	≥1000
Brightness adjustment-----	8-stage continuous light adjustment
Total irradiance-----	580W/m ²
The ratio between irradiance and illuminance -----	≤ 4.7mW/m ² lx
Color reduction index(Ra)-----	93
Power supply voltage-----	~220V/50Hz
Input power(W)-----	200
24V Bulb power(W)-----	150
Shift of major and stand by lamps-----	Automatic
Emergency time-----	3 hours



ZF500E Shadowless Operating Lamp(Emergency on ceiling)



Technical Data

Illuminance(Lux)-----	60,000~120,000
Color temperature-----	4000±500
Spot diameter(mm)-----	160~280
Illuminance depth(mm)-----	≥1000
Brightness adjustment-----	8-stage continuous light adjustment
Total irradiance-----	580W/m ²
The ratio between irradiance and illuminance -----	≤ 4.7mW/m ² lx
Color reduction index(Ra)-----	93
Power supply voltage-----	~220V/50Hz
Input power(W)-----	200
24V Bulb power(W)-----	150
Shift of major and stand by lamps-----	Automatic
Lowest height of installation (mm) -----	2900
Emergency time-----	3 hours

