

ISO9001:2000
ISO13485:2008

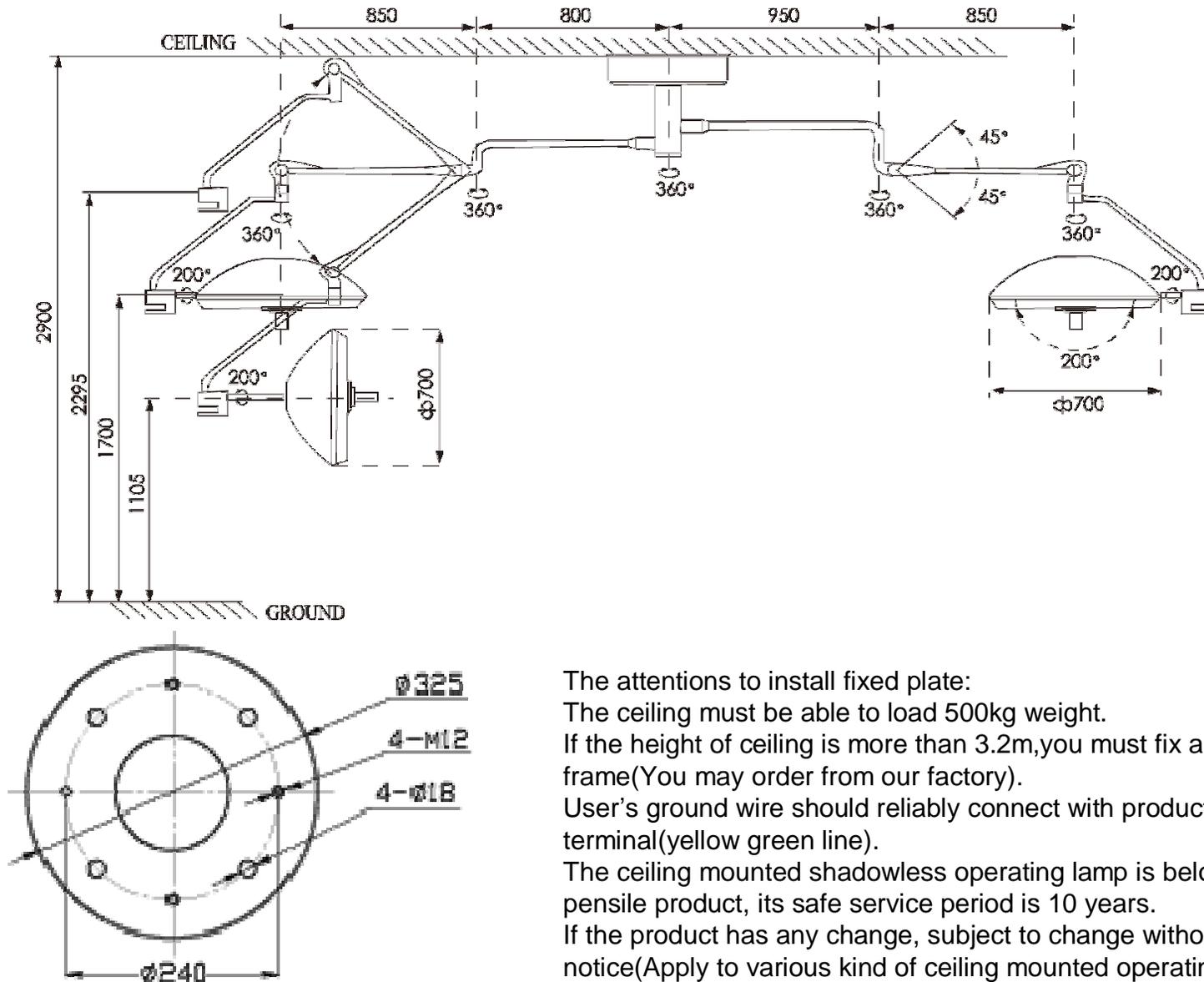


ZF Series
Integral Reflection
Shadowless Operating Lamp



PIOWAY MEDICAL LAB EQUIPMENT CO., LTD.

INSTALLATION DIAGRAM



The attentions to install fixed plate:

The ceiling must be able to load 500kg weight.

If the height of ceiling is more than 3.2m, you must fix an extension frame (You may order from our factory).

User's ground wire should reliably connect with product's ground terminal (yellow green line).

The ceiling-mounted shadowless operating lamp is a heavy-duty product, its safe service period is 10 years.

If the product has any change, subject to change without prior notice (Apply to various kinds of ceiling-mounted operating lamps).

ZF Series Integral Reflection Shadowless Operating Lamp

- | [ZF700/700-TV Shadowless Operating Lamp \(Camera on the handle\)](#)
- | [ZF700/500 Shadowless Operating Lamp \(Camera on the handle\)](#)
- | [ZF700/700 Shadowless Operating Lamp \(Camera\)](#)
- | [ZF700/700 Shadowless Operating Lamp](#)
- | [ZF700/500 Shadowless Operating Lamp](#)
- | [ZF500/500 Shadowless Operating Lamp](#)
- | [ZF700 Shadowless Operating Lamp](#)
- | [ZF500 Shadowless Operating Lamp](#)
- | [ZF500W Shadowless Operating Lamp \(On wall\)](#)
- | [ZF500S Shadowless Operating Lamp \(On stand\)](#)
- | [ZF500E Shadowless Operating Lamp \(Emergency on stand\)](#)
- | [ZF600/600 Shadowless Operating Lamp](#)
- | [ZF600 Shadowless Operating Lamp](#)

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



★ Cinerama camera

★ worktable



Technical Data

| | |
|---|---|
| Definition----- | >600TVL |
| SNR----- | >46db |
| Act for likeness 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) ----- | > 120,000 ----- > 120,000 |
| Color temperature(K) ----- | 4500 ± 500 |
| Color temperature(mm)----- | 160-280 |
| Illuminance depth(mm)----- | >1000 |
| Brightness adjustment ----- | 8-stage continuous light adjustment |
| Rendering index up(Ra) ----- | 94Bulb |
| power(W)24V----- | 150/150 |
| Shift of major and stand by lamps----- | Automatic |
| Lowest height of installation(mm) ----- | 3100 |

ZF700/500 Shadowless Operating Lamp (Camera on the handle)



★ Cinerama camera

★ worktable



Technical Data

| | |
|---|---|
| Definition----- | >600TVL |
| SNR----- | >46db |
| Act for likeness 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) ----- | > 120,000 ----- > 120,000 |
| Color temperature(K) ----- | 4500 ± 500 |
| Color temperature(mm)----- | 160-280 |
| Illuminance depth(mm)----- | >1000 |
| Brightness adjustment ----- | 8-stage continuous light adjustment |
| Rendering index up(Ra) ----- | 94Bulb |
| power(W)24V----- | 150/150 |
| Shift of major and stand by lamps----- | Automatic |
| Lowest height of installation(mm) ----- | 3100 |

ZF700/700 Shadowless Operating Lamp (Camera)

Technical Data

| | |
|---|---|
| Definition----- | >600TVL |
| SNR----- | >46db |
| Act for likeness 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) ----- | > 120,000 ----- > 120,000 |
| Color temperature(K) ----- | 4500±500 |
| Color temperature(mm)----- | 160-280 |
| Illuminance depth(mm)----- | >1000 |
| Brightness adjustment ----- | 8-stage continuous light adjustment |
| Rendering index up(Ra) ----- | 94Bulb |
| power(W)24V----- | 150/150 |
| Shift of major and stand by lamps----- | Automatic |
| Lowest height of installation(mm) ----- | 3100 |



★ Cinerama camera

★ worktable



ZF700/700 Shadowless Operating Lamp



Technical Data

| | |
|--|-------------------------------------|
| Illuminance(Lux)----- | > 150,000 |
| ----- | > 150,000 |
| Color temperature----- | 4500 ± 200 |
| 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



Technical Data

| | |
|--|-------------------------------------|
| Illuminance(Lux)----- | 700:> 150,000 |
| ----- | 500:> 100,000 |
| Color temperature----- | 4500±200 |
| 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



Technical Data

| | |
|--|-------------------------------------|
| Illuminance(Lux)----- | > 100,000 |
| ----- | > 100,000 |
| Color temperature----- | 4500±200 |
| 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



Technical Data

| | |
|--|-------------------------------------|
| Illuminance(Lux)----- | > 150,000 |
| Color temperature----- | 4500 ± 200 |
| 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



Technical Data

| | |
|--|-------------------------------------|
| Illuminance(Lux)----- | > 100,000 |
| Color temperature----- | 4500 ± 200 |
| 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 |

ZF500W Shadowless Operating Lamp (On wall)



Technical Data

| | |
|---|--|
| Illuminance(Lux)----- | > 100,000 |
| Color temperature----- | 4500±200 |
| 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) ----- | 2300 |

ZF500S Shadowless Operating Lamp (On stand)



Technical Data

| | |
|---|--|
| Illuminance(Lux)----- | > 100,000 |
| Color temperature----- | 4500±200 |
| 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)----- | > 100,000 |
| Color temperature----- | 4500 ± 200 |
| 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----- | 2 hours |

ZF600/600 Shadowless Operating Lamp



Technical Data

| | |
|--|-------------------------------------|
| Illuminance(Lux)----- | > 120,000 |
| ----- | > 120,000 |
| Color temperature----- | 4500±200 |
| 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)----- | > 120,000 |
| Color temperature----- | 4500 ± 200 |
| 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 |