# Building wash

## BP-183 RGBW S AR DXX

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# 1. Safety Instructions



**WARNING**
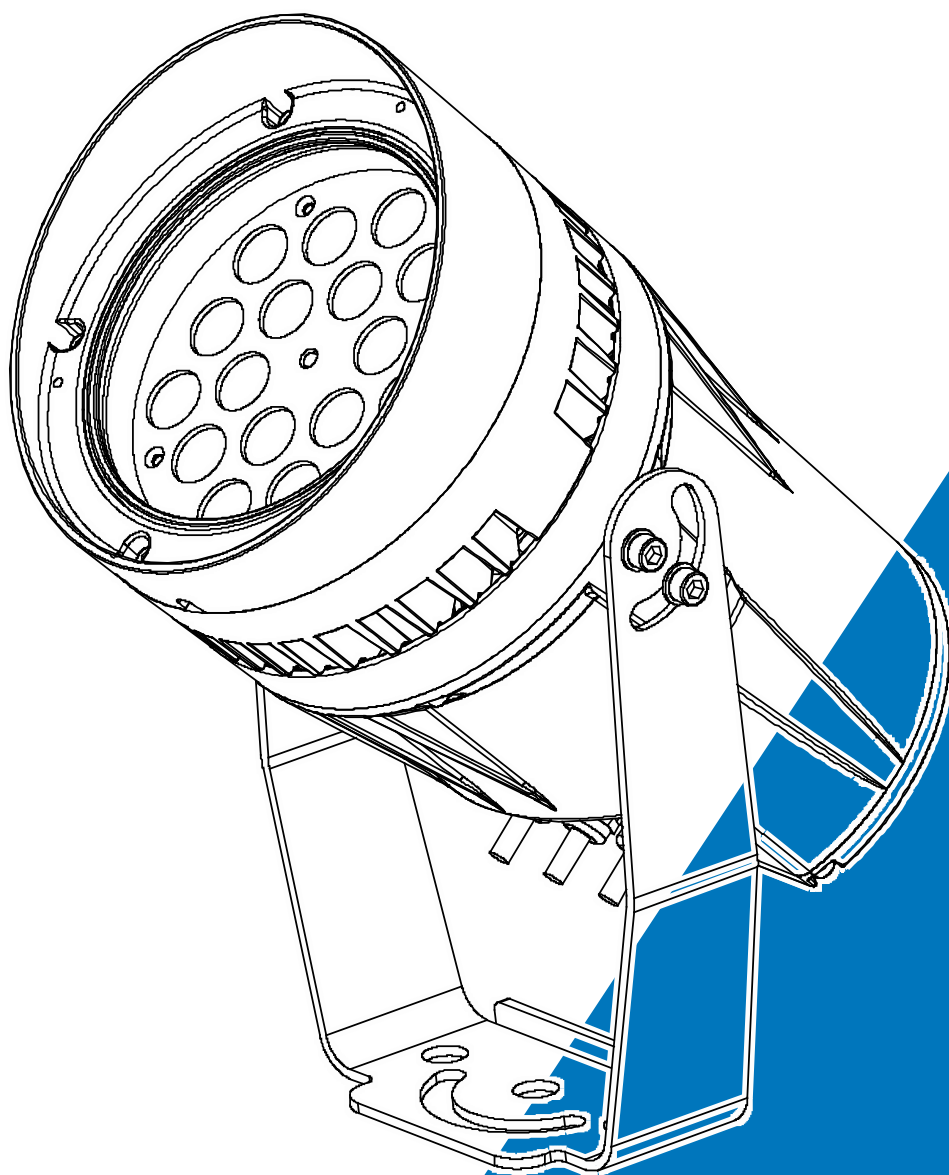
> **Please read the instructions carefully which includes important information about the installation, operation and maintenance.**

Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.

• Unpack and check carefully there is no transportation damage before using the unit.

• Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.

• It's important to ground the yellow/green conductor to earth in order to avoid electric shock.

• The unit is for indoor use only. Use only in a dry location.

• The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.

• Disconnect main power before replacement or servicing.

• Make sure there are no flammable materials close to the unit while operating as it is fire hazard.

• Use safety cable when installing this unit. DO NOT handle the unit by taking its head only, but always by taking its base.

• Maximum ambient temperature is Ta: 40 degrees C. DO NOT operate it where the temperature is higher than this.

• Unit surface temperature may reach up to 75 degrees C. DO NOT touch the housing with bare-hands during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.

• In the event of a serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.

• DO NOT touch any cables during operation as high voltage may cause electric shock.

**Warning:**

• To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.

• The housing and lenses must be replaced if they are visibly damaged.

**Installation:**

The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating and make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the fixtures weight. Always use a safety cable that can hold 12 times of the weight of the fixture when installing.

The equipment must be installed by professionals and it must be installed in a place where is out of the reach of people and no one can pass by or under it.

## 2. Technical Specifications

• IP66 rated LED Spotlight with rich, saturated color mixing effect via specially designed lens provides outstanding light output;

• Compact design with great heat ventilation in a rugged die-cast aluminum housing to ensure reliable performance under harsh environments;

• With Photocell (light sensor) feature, units can light up automatically when the environment is getting dark;

• LED touch-panel display for easy set-up navigation; It also comes with great built-in shows (fade) without DMX control

• Perfect for illumination of building façade, hotels, landscapes, theme park and more.

• **Input Voltage:**　　　　AC 100-240V, 50/60Hz

• **Power Consumption:**　48W

• **LED:**　　　　　　　　18 x 3W LEDs (R:4, G:5, B:5, W:4)

• **Beam Angle:**　　　　　6°, 15°, 25°, 40°, 60°, 80°

• **Weight:**　　　　　　　3.8Kgs

• **Dimension:**　　　　　315 x 178 x 162mm
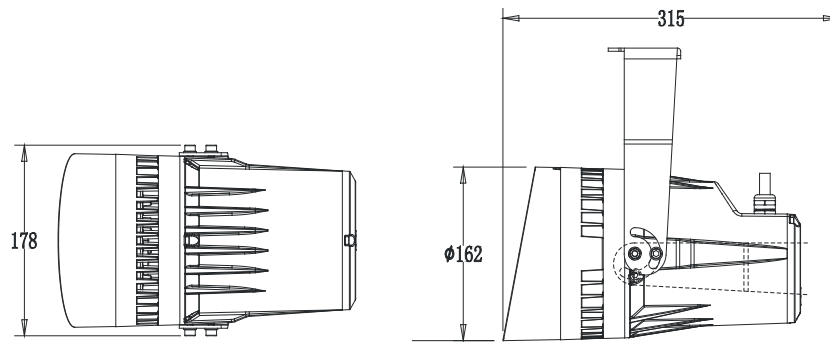
## 3. How To Set The Fixture

## 3.1 Control Panel
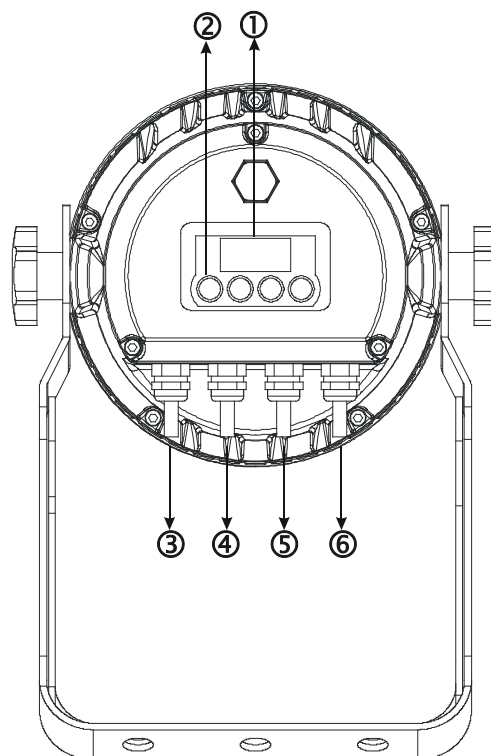


**1. Function Display:**

Used To show the various menus and the selected functions

**2. Button:**

| MENU | To select the programming functions |
|---|---|
| ▲ DOWN | To go backward in the selected functions |
| ▼ UP | To go forward in the selected functions |
| ENTER | To confirm the selected functions |

**3. DMX IN:**

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Water proof cable with 3-pin XLR connectors for DMX 512 operation

**4. POWER IN:**

Water proof power cable with connectors for power input

**5. POWER OUT:**

Water proof cable with connectors for power output

**6. DMX OUT:**

Water proof cable with connectors for DMX 512 operation with 3-pin XLR plug

## 3.2 Main Functions

To select any functions, press the **MENU** button until the required one is shown on the display. Select the function by the **ENTER** button and the display will blink. Use the **DOWN/UP** button to change the mode. Once the required mode has been selected, press the **ENTER** button to setup or it will automatically return to the main functions without any change after idling one minute. Back to the functions without any change press the **MENU** button.

The main functions are shown below:

```
                          ┌─────┤ 1 │
              Addr ────────┤  :          DMX Address
                          └─────┤ 512 │

                          ┌─┤ 4 │   4 Mode(R,G,B,W)
              ChNd ───────┼─┤ 4d │  4D Mode(R,G,B,W,Dimmer)
                          └─┤ 4C │  4C Mode(R,G,B,W,Color,Dimmer,Strobe)

                          ┌─┤ Sh 1 │    ┌─┤ F  0 │   ┌─┤ U  0 │
              ShNd ───────┼─┤ Sh 2 ├────┤   :   ├───┤   :       Show1~16
                          └─┤ Sh 16 │   └─┤ F255 │   └─┤ U255 │

                          ┌─┤ yes │
              bLNd ───────┤                Blackout Mode
                          └─┤ no │

                          ┌─┤ red │
                          ├─┤ Gree │
                          ├─┤ bLue │   ┌─┤ 0 │
              NAnu ───────┼─┤ Uhte ├───┤  :        Manual Test
                          ├─┤ dinn │   └─┤ 255 │
                          └─┤ Stro │

                          ┌─┤ red │
              bALA ───────┼─┤ Gree │   ┌─┤ 125 │
     MENU ──────────────────┼─┤ bLue ├───┤  :        White Balance
                          └─┤ blue │   └─┤ 255 │

                          ┌─┤ on │
              PtCL ───────┤                Photo Cell Mode
                          └─┤ oFF │

                          ┌─┤ 0 │
              SenS ───────┤   :          Photo Cell Intensity
                          └─┤ 100 │

                          ┌─┤ 1 │
              hour ───────┤   :          Time Setup
                          └─┤ 10 │

                          ┌─┤ dISP │
              dISP ───────┤                Display Inversion
                          └─┤ dSIP │

              tESt ────────  Auto Test

                          ┌─┤ on │  LED Display On
              Led ────────┤
                          └─┤ oFF │  LED Display Off

              tENP ────────  Temperature

              FhrS ────────  Fixture use time

              uer ─────────  Firmware Version
```

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`Addr` **DMX 512 Address**

Select the `Addr`, press the **ENTER** button and the display will blink. Use the **DOWN/UP** button to change the DMX 512 address between 1 and 512. Once the address has been selected, press the **ENTER** button to save or automatically exit menu mode without any change after one minute. Back to the previous functions without any change press the **MENU** button.

`ChNd` **Channel mode**

Select the `ChNd`, press the **ENTER** button and the display will blink. Use the **DOWN/UP** button to select the `4` (4 Channels: Red, Green, Blue, White), `4d` (5 Channels: Red, Green, Blue, White, Dimmer) or `4C` (7 Channels: Red, Green, Blue, White, Color, Dimmer, Strobe) Mode. Once select the required mode, press the **ENTER** button to save or automatically exit menu mode without any change after one minute. To go back to the functions without any change press the **MENU** button.

`ShNd` **Show mode**

Select the `ShNd`, press the **ENTER** button and the display will blink. Use the **DOWN/UP** button to select the `Sh 1` (show 1)…. `Sh 16` (show 16). Once select, press the **ENTER** button to setup. press the **ENTER** button，`F 0` will blinking on the display, use the **DOWN/UP** button adjust the fade time (0~255), press the **ENTER** button to store and `U 0` will blinking on the display, use the **DOWN/UP** button adjust the white time (0~255), press the **ENTER** button to store or automatically return to the main functions without any change after one minute. To go back to the previous functions without any change press the **MENU** button.

`bLNd` **Blackout mode**

Select the `bLNd`, press the **ENTER** button and the display will blink. Use the **DOWN/UP** button to select the `YES` (blackout) or `no` (normal). Once selected, press the **ENTER** button to setup or automatically exit menu mode without any change after one minute. To go back to the functions without any change press the **MENU** button.

`NAnu` **Manual Mode**

Press the **MENU** button up to when the `NAnu` is shown on the display. Press the **ENTER** button and the display will blink. Use the **DOWN/UP** button to select the `red` (Red),

⌂⎷⫤⫤(Green), ⫼⩘⎍⫤ (Blue), ⎍⩁⨓⫤ (White), ⎅ ⟙⟙⟙ (Dimmer) or ⟙⨓⎍⎐ (Strobe). Once selected, press the **ENTER** button to setup, then use the **DOWN/UP** button to adjust the value (0~255) or automatically exit menu mode without any change after one minute. To go back to the functions without any change press the **MENU** button.

⫼⩘⨾⩘ **White Balance**

Press the **MENU** button up to when the ⫼⩘⨾⩘ is showing on the display. Pressing the **ENTER** button and the display will blink. Use the **DOWN/UP** button to select the ⎚⨂⎅⎓ (Red)，⌂⎷⫤⫤ (Green), or ⫼⩘⎍⫤ (Blue) mode. Once selected, press the **ENTER** button to setup, then use the **DOWN/UP** button to adjust the value (125~255) or automatically exit menu mode without any change after one minute. To go back to the functions without any change press the **MENU** button.

⨿⨓⨂⩘ **Photo Cell**

Select the ⨿⨓⨂⩘, press the **ENTER** button and the display will blink. Use the **DOWN/UP** button to select the ⎓⨂⎷⎓ (Be controlled by sunlight) or ⎚⨐⨐⎓ (Not be controlled by sunlight)，Once select, press the **ENTER** button to setup or automatically return to the main functions without any change after one minute. Back to the previous functions press the MENU button.

⫤⨿⎷⫧ **Photo Cell Intensity**

Select the ⫤⨿⎷⫧, press the **ENTER** button and the display will blink. Use the **DOWN/UP** button to adjust the intensity vale between ⎓⎓⎓⎅ and ⎓⨓⨷⨷. Once selected, press the **ENTER** button to setup or automatically return to the main functions without any change after one minute. Back to the previous functions press the **MENU** button.

⨴⎛⎍⎚ **Time Setup**

Select the ⨴⎛⎍⎚, press the **ENTER** button and the display will blink. Use the **DOWN/UP** button to adjust the ⎓⎓⎓⨓ (1 hour) … ⎓⎓⨓⨷ (10 hours) mode. Once select, press the **ENTER** button to setup or automatically return to the main functions without any change after one minute. Back to the previous functions press the **MENU** button.

⎅ ⨓⫧⨿ **Display Inversion**

Press the **MENU** button up to when the ⎅ ⨓⫧⨿ is showing on the display. Pressing the **ENTER**

button and the display will blink. Use the **DOWN/UP** button to select the ⌐on⌐ (normal) or off⌐ (inverse), Once the mode has been selected, press the **ENTER** button to setup or automatically return to the main functions without any change after one minute. To go back to the previous functions without any change press the **MENU** button.

## tЕSt Auto Test

Select the tЕSt, press the **ENTER** button and the unit will run self-test by built-in program. To go back to the functions press the **MENU** button again.

## LЕd LED Display

Press the **MENU** button up to when the LЕd is shown on the display. Press the **ENTER** button and the display will blink. Use the **DOWN/UP** button to select ⌐on⌐ (display on) or off⌐ (display off 20 seconds after exit menu) mode. Once select, press the **ENTER** button to setup or exit menu mode without any change after one minute. Back to the functions without any change press the **MENU** button again.

## tЕПP Temperature Test

Press the **MENU** button up to when the tЕПP is blinking on the display. Press the **ENTER** button and the display will show the temperature of the unit. To go back to the functions press the **MENU** button again.

## FhrS Fixture Hours

Press the **MENU** button up to when the FhrS is blinking on the display. Press the **ENTER** button and the display will show the number of working hours of the unit. To go back to the functions press the **MENU** button.

## uЕr Software version

Press the **MENU** button up to when the uЕr is blinking on the display. Press the **ENTER** button and the display will show the version of software of the unit. To go back to the functions press the **MENU** button again.

## 4. How To Control The Fixture

You can operate the unit by DMX controller:

No need to turn the unit off when you change the DMX address, as new DMX address setting will be affected at once. The unit will be ready to receive DMX signal or run the built in programs.

## 4.1 DMX Controller

Use universal DMX controller to control the units, you have to set DMX address from 1 to 512 channel so that the units can receive DMX signal.

Press the **MENU** button up to when the $\boxed{\text{Addr}}$ is showing on the display. Press the **ENTER** button and the display will blink. Use the **DOWN/UP** button to change the **DMX512** address. Once the address has been selected, press and keep the **ENTER** button pressed up to when the display stops blinking or storing automatically 8 seconds later. To go back to the functions without any change press the **MENU** button again.

Please refer to the following diagram to address your DMX adsress for the first 4 units

| Channel Mode | Unit 1 Address | Unit 2 Address | Unit 3 Address | Unit 4 Address |
|---|---|---|---|---|
| 4 Channels | 1 | 5 | 9 | 13 |
| 5 Channels | 1 | 6 | 11 | 16 |
| 7 Channels | 1 | 8 | 15 | 22 |

## 4.2 DMX 512 Configuration

**4 Channels Mode:**

| Channel | Value | Function |
|---|---|---|
| 1 | 0 - 255 | **RED** <br> 0% → 100% |
| 2 | 0 - 255 | **GREEN** <br> 0% → 100% |
| 3 | 0 - 255 | **BLUE** <br> 0% → 100% |
| 4 | 0 - 255 | **WHITE** <br> 0% → 100% |

**5 Channels Mode:**

| Channel | Value | Function |
|---|---|---|
| 1 | 0 - 255 | **RED**<br>0% → 100% |
| 2 | 0 - 255 | **GREEN**<br>0% → 100% |
| 3 | 0 - 255 | **BLUE**<br>0% → 100% |
| 4 | 0 - 255 | **WHITE**<br>0% → 100% |
| 5 | 0 - 255 | **DIMMER**<br>0% → 100% |

**7 Channels Mode:**

| Channel | Value | Function |
|---|---|---|
| 1 | 0 - 255 | **RED**<br>0% → 100% |
| 2 | 0 - 255 | **GREEN**<br>0% → 100% |
| 3 | 0 - 255 | **BLUE**<br>0% → 100% |
| 4 | 0 - 255 | **WHITE**<br>0% → 100% |
| 5 | 0 - 7<br>8 - 15<br>16 – 23<br>24 - 31<br>…<br>232 - 239<br>240 - 247<br>248 - 255 | **COLOR WHEEL**<br>OFF<br>Preset Color 1<br>Preset Color 2<br>Preset Color 3<br>…<br>Preset Color 30<br>Preset Color 31<br>Preset Color 32 |
| 6 | 0 - 255 | **DIMMER**<br>0% → 100% |

| | | STROBE |
|---|---|---|
| | 0 - 7 | OFF |
| | 8 - 15 | OPEN |
| | 16 - 131 | STROBE, SLOW TO FAST |
| | 132 - 139 | OPEN |
| 7 | 140 - 181 | FAST CLOSE SLOW OPEN |
| | 182 - 189 | OPEN |
| | 190 - 231 | FAST OPEN SLOW CLOSE |
| | 232 - 239 | OPEN |
| | 240 - 247 | RANDOM STROBE |
| | 248 - 255 | OPEN |

## 5. DMX512 Connections



DMX OUT

DMX IN    POWER IN          POWER OUT

COMMON
DMX INPUT          DMX +          DMX OUTPUT
                   DMX -
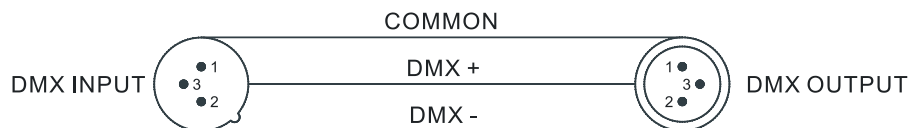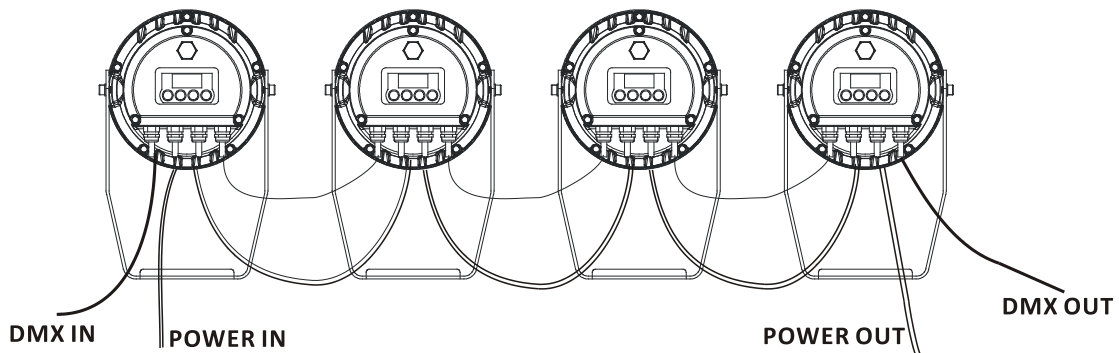
Termination reduces signal errors and to avoid signal transmission problems and interference. It is always advisable to connect a DMX terminal.
(Resistance 120 ohm 1/4W)between pin2(DMX-)and pin3(DMX+) of the last fixture.
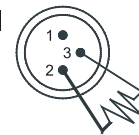
1. If you using a controller with 5 pins DMX output, you need to use a 5 to 3 pin adapter-cable.

2. Connect the unit together in a "daisy chain" by XLR plug from the output of the unit to the input of the next unit. The cable can not branched or split to a "Y" cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.

3. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.

4. Each lighting unit needs to have an address set to receive the data sent by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).

5. The end of the DMX 512 system should be terminated to reduce signal errors.

6. 3 pin XLR connectors are more popular than 5 pin XLR.

   3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

   5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

   Pin 4/Pin 5: Not used.

## 6. Troubleshooting

If the fixture does not work, no light, please check the connection of power cable and signal line, also measure the mains voltage on the main connector.

## 7. Cleaning And Maintenance

The cleaning must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: moist, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the fixture.

• Clean with lint-free cloth using normal glass cleaning liquid.

• Always dry the parts carefully.

• Clean the surface at least every 30 days.

# Declaration of Conformity

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

EN55103-1: 2009 ; EN55103-2: 2009; EN62471: 2008;
EN61000-3-2: 2006 + A1:2009 + A2:2009; EN61000-3-3: 2008.

# &

# Harmonized Standard

EN60598-2-17:1989 + A2:1991; EN60598-1:2008+ A11: 2009
EN 62471:2008; EN 62493: 2010
Safety of household and similar electrical appliances
Part 1: General requirements

**Innovation, Quality, Performance**