



BAHAMA »JUMBRELLA« – The Original.
Unrivalled for Decades. Worldwide.

Gms
Marques & Silva, Lda
2014

BAHAMa®
JUMBRELLA

PARCEIROS À 20 ANOS



MADE IN GERMANY

This is the all-new 2013/2014 product catalogue on BAHAMA *JUMBRELLA*, the brand manufacturing line of 13 large-size basic models that, within their genre, have been representing the state-of-the-art of what fastidious architects, designers and HoReCa owner-operators are used to expect. Nothing new about that, for it has been no different since 1976.

Individual "manufacture" – no "stock on hand"

Due to the diversity in their shapes and dimensions, their various colour editions and, last but not least, their pioneering variety of special equipment, *JUMBRELLA* structures aren't but built strictly order. In this connection, it is characteristic of the brand's philosophy according to which each single unit has to be tested and checked out before it is equipped with its stainless-steel brand plate showing the unit's unmistakable production number stamped into. Only thereupon it is released for safe transport packing and loading.

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Perfect look, perfect function ...

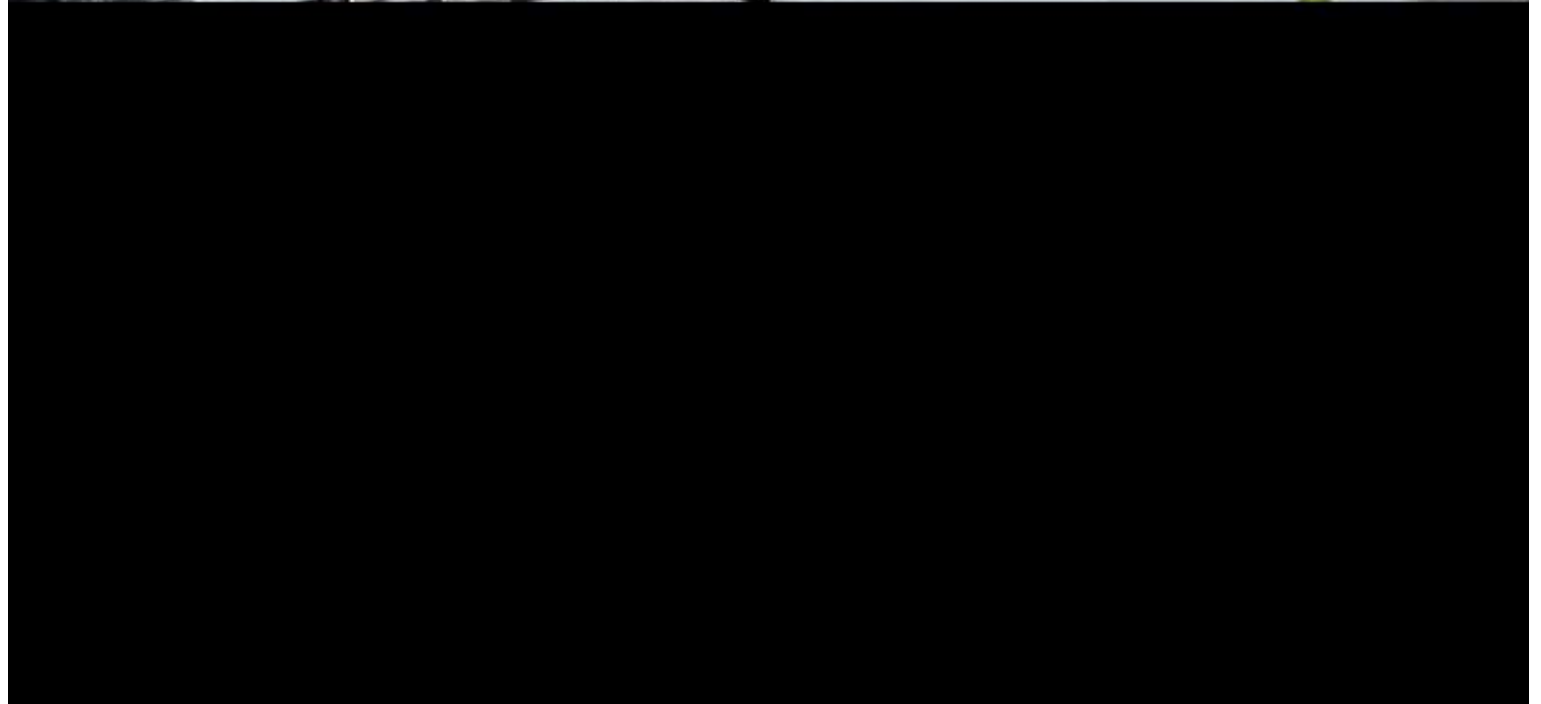






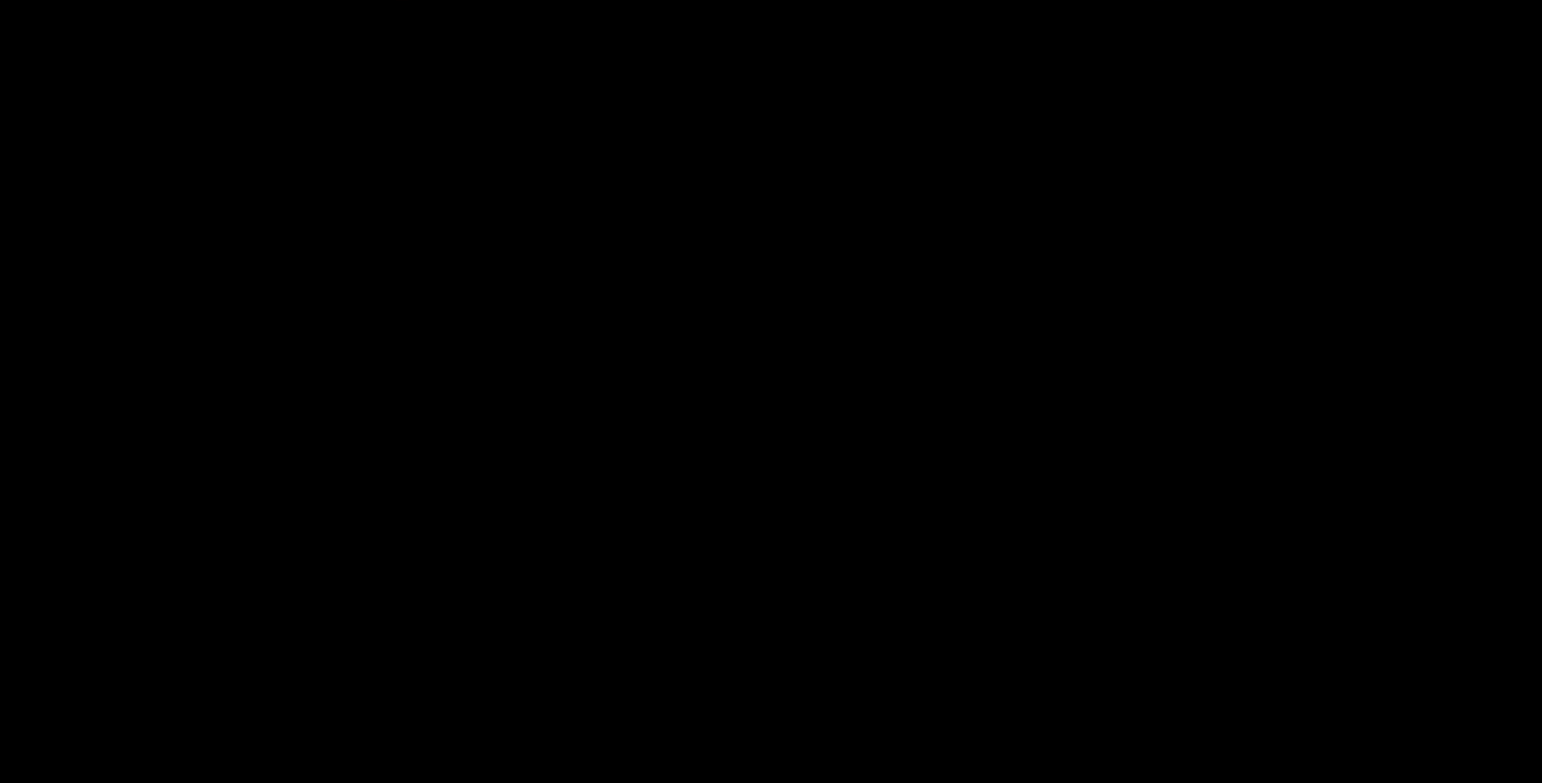
Stable in wind and weather ...





Oases of cultivated hospitality ...







Appealing eye-catcher – day and night ...





AESTHETICS FOLLOWING FUNCTION –

All components in aesthetic and functional perfection.

1 *JUMBRELLA* packed for transport in h.-d. cardboard cylinder stiffened by massive wooden covers.

2 Optional made-to-shape »Reusable Protective Cover« – # WSH J-....

3 Option: Special reusable protective cover with telescopic lifting rod, to put it over and bind whilst standing on the ground (no step ladder) – # WSH T-....

4 Servo-assisted »BAHAMA kinematics« (pat.) – final step upon pretensioning with the right-hand latch: engage left-hand latch and turn it down wholly.

5 Both latches secured by flush cylinder locks to protect structure from unauthorized handling.

6 *JUMBRELLA* with "contemporary"-style membrane which is pretensioned radially by fail-safe tensioners.

7 Modular-design stretchers articulate with the sectionally reinforced carrier arms.

8 Modular-design arm members articulate with the crown on top of the inner moving pole of the *JUMBRELLA*. The circular ventilation opening in zenith of the textile membrane is recovered by a conical cover which overlaps the opening.

9 TÜV-certified, levellable BAHAMA »Portable Universal (heavy-weight) Foot« packed on a one-way pallet. – # U333-....

10 *JUMBRELLA* as erected & installed in the »Portable Universal (heavy-weight) Foot«. In conjunction with the locking block the circular metal cover preventing both unauthorized removal of the *JUMBRELLA* and dismantling its heavy-weight foot. – # U333-....

11 In picture: The "footing part" (with temporary "traffic cover" on top) of the TÜV-certified entity of the »Universal In-Ground Sleeve« device for "permanent installation" of the *JUMBRELLA* – # 0451-99/E / # 1451-99/E.

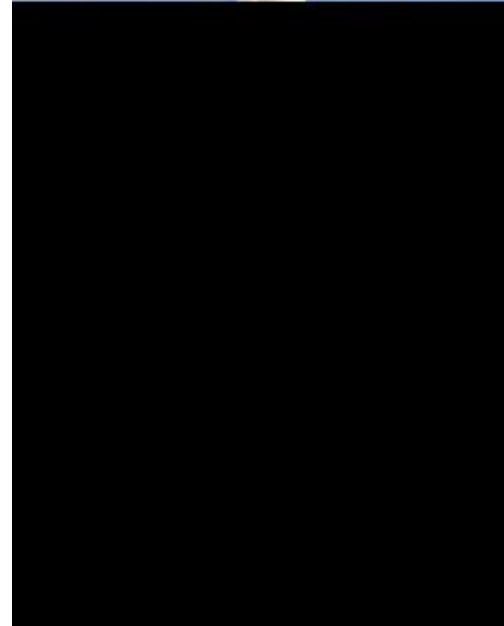
12 "Footing part" same as in picture 11 upon removal of its temporary "traffic cover": The black sealing ring prevents surface water from penetrating. Footing part forming part of the entity identified: # 0451-99/E / # 1451-99/E.

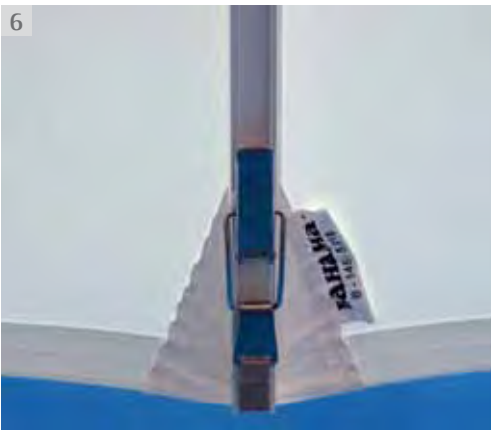
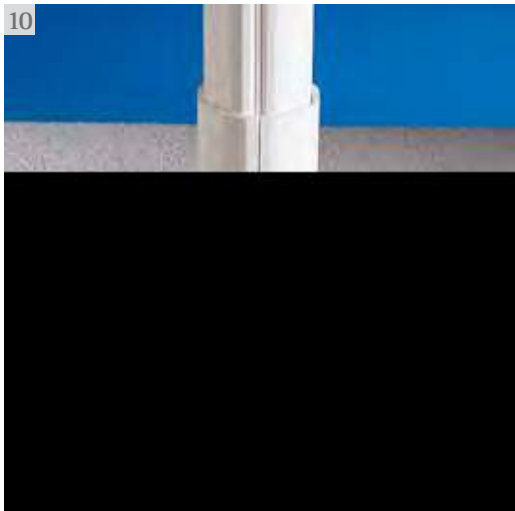
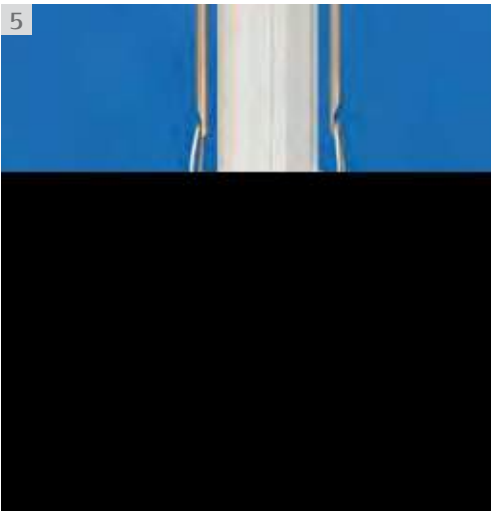
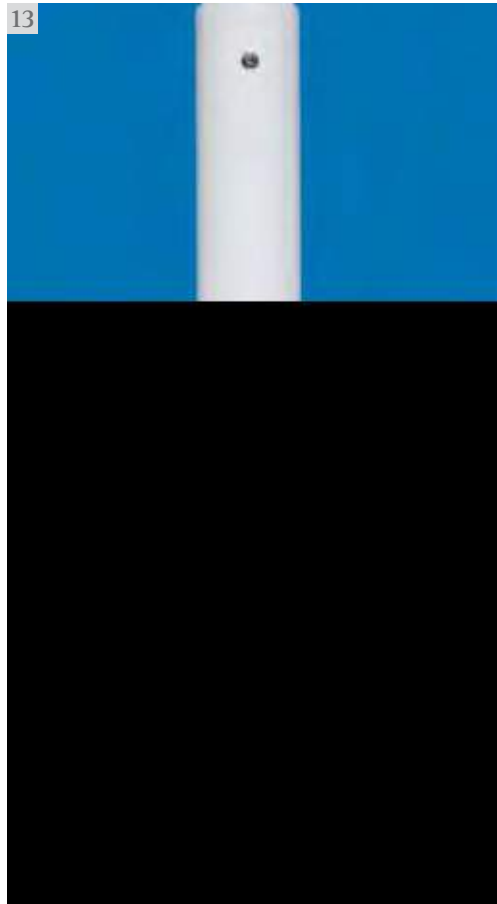
13 Schematic depiction of a *JUMBRELLA* as "installed permanent": Borderline in background colour shading simulating the finished ground level. Connecting parts (above the borderline, parts of the entity) always coming factory-premounted on the structure's major pole. Entity of the »Universal In-Ground Sleeve« device: # 0451-99/E / # 1451-99/E.

14 »Octagonal On-Deck Base« (steel) with fixed receiving sleeve for "permanent installation" of the *JUMBRELLA*, augmented-corner excerpt right: on massive concrete, left: on solid timber ground. – Excerpt right: # 0334-10/E / # 0335-12/E – or excerpt left: # 0334/E / # 0335/E.

15 Basketlike "in-ground console", part of the alternative device (to # 0451-99/E / # 1451-99/E in pict. 11-13) for "permanent installation", cpl. entity designated »3-piece Universal In-Ground Base« with hinge joint (with st.-st. axle) to facilitate erection of the larger/heavier *JUMBRELLA* models. In-ground console in picture with temporary "traffic cover". Above-FGL connecting parts always coming factory-premounted on the structure's major pole. Entity's ID: # J033-3-198 / # J033-3-266.

St.-st. brand plate with production number (SNR) stamped into for unmistakable identification of each BAHAMA *JUMBRELLA*





BAHAMA »Maritime« – folding frame in "Yacht" edition ...



OPTION: BAHAMA »Print« –

The all-weather umbrella with printed membrane – a large outdoor commercial that does not escape notice.

Provided that orderers deliver their suitable copy material, any membrane made of »betex®05« fabric can optionally be printed by the BAHAMA factory. The selection of which printing method is most appropriate to be applied, primarily depends on the circulation – i.e. the number of equal-size membranes to be printed with the explicit image.

DIGITAL PRINTING

- + Economical with a single membrane and circulations of 20 to 30 membranes.
- + Absolutely photo-realistic print quality.
- + Practicable on any plain colour fabric base.
- + Very short set-up and production time.
- Cost efficiency decreasing with circulations of 30 to 40 membranes.

Indispensable prerequisite for a high-grade print result is the quality of the copy material to be delivered by the orderer. For printing written characters, graphics and CI logos or emblems, the factory needs vectorized data – e.g. in ai or eps format, for high-quality reproduction of photographs: highly resolved pixel files.

»TRANSPARENT» or »THROUGH»-PRINTING

- + Cost efficiency increasing with circulations of 50–60 membranes and beyond.
- + Allows bleed printing – i.e. all over each segment cut of the membrane.
- + Transparency effect: excellent – i.e. from underneath (even though mirror-inverted) no less intensive than viewed from outside.
- Considerably longer set-up and production time.



OPTION: BAHAMA »Light« –

makes outdoor terraces more appealing after dark,
and creates a cosy atmosphere under the umbrellas.

Be it for "permanent" or "mobile" installation of the structure, every **JUMBRELLA** model can be equipped with this non-retrofitable, wholly frame-contained, TÜV-certified 44-Watt lighting by the BAHAMA factory.

Every »Light«-equipped **JUMBRELLA** is supplied with an »External Control Unit« (ECU) which is to be installed next to the local AC source. It contains the ON/OFF switch as well as the overriding fault-current switch ("Fi"). All lamps are collectively switched ON/OFF inside the ECU or, as the switch is in ON position, each of the four lamps can be switched OFF individually. On principle, lighting must be switched OFF collectively prior to closing the **JUMBRELLA**. – # 230444.

Specs. of BAHAMA »Light« in brief:

4 Energy-saving lamps	ea. 11 Watts
Power supply	230/240 Volts
Connecting power	0.05 kW
Consumption/operational hr.	44 Watts
Collect. candlelight power	≈ 240 Watts
Lightbulbs	screw-on/off type
Lamp screens	slip-on/off type

- 1 The »External Control Unit« ("ECU")
- 2 TÜV-certified »Universal In-Ground Sleeve« with flexible conduit for the underground power supply cable.
- 3 After removal of the solid "traffic cover", the end of the on-site supply cable is to extend by 40-50 cm from finished ground level to allow connection.
- 4 Basketlike "in-ground console", part of the »3-piece In-Ground Base Console« set with hinge joint for »Light« or »Magic«-equipped **JUMBRELLAs** – alternative footing to »Universal In-Ground Sleeve« # 0451-99/E / # 1451-99/E. – # J033-3-198/E / # J033-3-266/E.



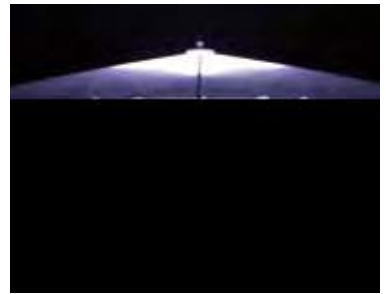
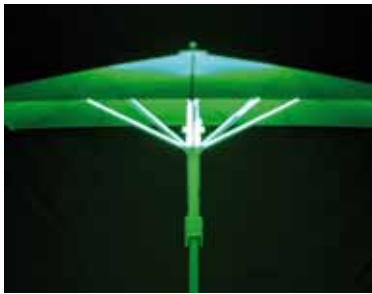
OPTION: BAHAMA »Magic« – unrivalled: Indirect lighting based on RGB/LED technique.

This wholly frame-contained, inter alia remote-controllable lighting enables both: either a steady warm white-colour light for regular operation (newspaper, menu), or an automatic, smoothly running change through countless light colours, such changes at consecutive short, medium or long-dissolve time intervals (from one to the next basic colour, and so on) that can be preselected with the remote-control hand set. The distant effect of these colour-changing runs is overwhelming, the more that the entire *JUMBRELLA*, if equipped with a white membrane, appears in countless colour shades.

The snapshots on this page should be apt to convey an impression of how an all white »*Magic*«-equipped *JUMBRELLA* is converted into various colour appearances.

Be it for "permanent" or "mobile" installation of the structure, every *JUMBRELLA* model can be equipped with this non-retrofitable, since wholly frame-contained »*Magic*« lighting by the BAHAMA factory. New with this special lighting also is that it shuts itself off automatically as the umbrella is closed and, vice versa, switches on again as the umbrella is re-opened. – # **MAGIC-C-444** / # **MAGIC-C-888** / # **MAGIC-C-666** (relative to the very *JUMBRELLA* model).

Video »*Magic*«
(musical) on
www.bahama.de



OPTION: BAHAMA »Heater« – to create an agreeable climate that makes guests tarry, thus extending the outdoor season and revenues.

This non-retrofitable frame-contained electric heating equipment for all **JUMBRELLA** models has been certified to comply with protective-system classification IP65 by the German TÜV body. It's available with "permanent" and "mobile" **JUMBRELLA** installations as well.

The TÜV-approved operation of **JUMBRELLA** structures equipped with this infrared heating requires an existing primary 3-phase power source (e.g. 400V in Europe) to which the »External Control Unit« (ECU) is to be connected. From this ECU each of the four 2,000-Watt radiator units is supplied by single-phase AC (e.g. 230/240V in Europe). Connecting load to be assessed for every »Heater«-equipped **JUMBRELLA** on site is 8.1 kW. Maximum power consumption – 4 radiators set ON – is 8 kW per operational hour.

The basic »Heater« edition includes – inter alia – the ready-to-connect »External Control Unit« (ECU) which contains the primary fault-current switch ("Fi") and four ON/OFF safety switches numbered 1 through 4 so that – relative to the given table occupation underneath – each of the four radiators can be switched on/off individually. – # **CHIRA-400/3-IP65**.

Contrary to the basic edition, the dimmable »Heater« edition's »External Control Unit« (ECU) contains, besides the primary fault-current switch ("Fi"), only one major ON/OFF safety switch, because the radiators are controlled by an additional ready-to-connect »Dimmer Box« which is to be installed next to the ECU so to be connected to latter. With the ECU's major safety switch in ON position, each individual radiator is controlled infinitely variable by its rotary knob on the dimmer box within a performance range from 300 to 2,000 Watts. Therefore, rotary knobs on the front of the box are marked "Zone" 1 through 4. – # **DIM-CHIRA-400/3-IP65**.

1 IR radiator unit with swift console & receiving rack fixed to the articulated stretcher

2 IR radiator in operation

3 »External Control Unit« (ECU) of the basic »Heater« edition

4 »Dimmer Box« – part of the extended i.e. dimmable »Heater« edition

5 E-distributor console with connectors for the IR radiators

6 »Asymmetric Universal Underground Foot« for the »Heater«-equipped **JUMBRELLA** to be installed "permanent" [suitable also if structure additionally with »Light« or »Magic« a/o »Sound«]. – # **CHIRA-0451/2007** / # **CHIRA-1451/2007**.

7 The alternative »3-piece In-Ground Base« set with tipping joint for the »Heater«-equipped **JUMBRELLA** to be installed "permanent" [suitable also if structure additionally equipped with »Light« or »Magic« a/o »Sound«]. – # **JHIRA033-3-198** / # **JHIRA033-3-266**.

8 »Portable Universal Foot« of the U333 cassette-type design, modified/amended to allow »Heater«-equipped **JUMBRELLAs** to be installed "mobile". – # **U333-....** in connection with # **U333-CHIRA**.

9 The electromechanical modification/amendment of the bend-resistant steel cassette [of the »Portable Universal Foot«, art. # **U333-....**] for »Heater«-equipped **JUMBRELLAs**. – # **U333-CHIRA**.



To the Video:



BAHAMA®
JUMBRELLA



OPTION: BAHAMA »Wireless TV« – protected from glare and weather – for HoReCa operators to offer their outdoor guest audiences more than just food & beverages.

BAHAMA »WirelessTV« is a non-retrofit-table special equipment that is confined to the mechanical and electrotechnical *JUMBRELLA* frame modification as well as the system-related appliances such as, inter alia, an »External Control Unit« (ECU), a variably tiltable carrier console, a factory-fixed distributor console, the factory-fixed radio receiver, the (external) radio transmitter, and the ready-to-plug-in cable set.

Prerequisite for operation of the »WirelessTV« equipment is that orderer is in possession of or obtains – besides one or all of the basic sets listed herein more below – at least one LCD flat screen with rear installation pattern conforming to standard VESA of A/200 x B/200 mm M6 thread, max. image diagonal of 81 cm (32 in), and nett basic weight to not exceed 17 kg. One and the same *JUMBRELLA* structure can optionally be ordered with

either the "basic" (1 screen) or the "dual" (2 screens) edition of the »WirelessTV« system – refer to the graphic examples. –
C-WirelessTV-1 / # C-WirelessTV-2.

Programs that can be broadcasted by »WirelessTV« if following basic equipment is at orderer's/operator's disposal:

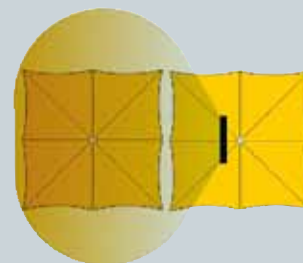
LIVE: Satellite or cable receiver, each with HDMI output

DVD: DVD player or laptop, each with HDMI output

OWN: Digital video camera with HDMI output

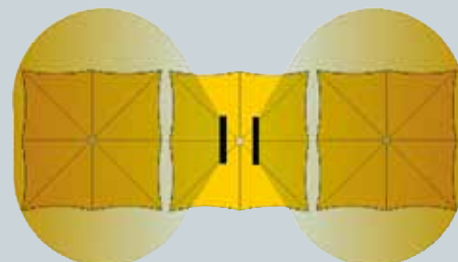
© Copyright notice

Audio and/or audiovisual programs intended to be broadcasted in public commercially by HoReCa operators require the legal copyright owner's or producer's prior, usually dutiable written permission. Such prior permission is not required if operators broadcast their own i.e. self-recorded DVD productions, or via their own, locally positioned video camera.



"Basic Edition"

Example: The right-hand *JUMBRELLA* in this twin configuration is equipped with the "basic edition" of »WirelessTV«: Guests/viewers within the shaded section of the graphic have a clear view of the full image on screen.



"Dual Edition"

Example: The central structure in this configuration of three *JUMBRELLAs* is equipped with the "dual edition" of »WirelessTV«: Guests/viewers within both shaded sections of the graphic have a clear view of the full image on screen.



OPTION: BAHAMA »Sound« – the *JUMBRELLA* frame-contained audio technique – either mono or stereo. To create a cultivated atmosphere on the outdoor terrace.

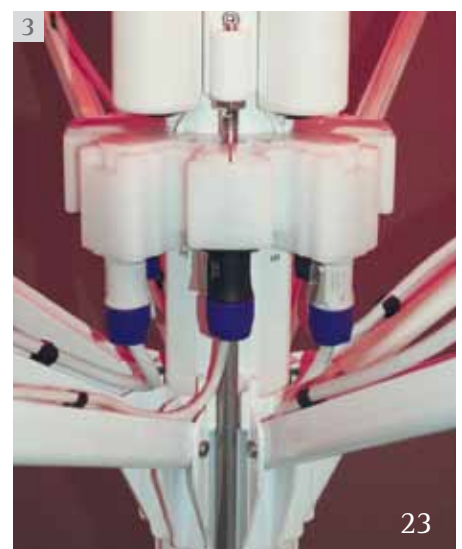
Any *JUMBRELLA* model can be ordered with the frame-contained, however, non-retrofittable BAHAMA »Sound« equipment which is frequently ordered in addition to »Light« [or »Magic«] and/or »Heater«. The audio equipment is available with two different speaker types, both of them suitable for outdoor operation: "standard", or "BOSE", either of them attachable to one each of the eight (10 or 12) articulated stretchers within the frame. A suitable socket to connect the speaker to the sound wiring is allocated in either of those four positions.
– # SS-0451/1451 / # BS-0451/1451.

Since wirings and plug-ins inside the umbrella's major pole in principle have been laid out to hi-fi sound operation, it would take just an additional order for a same-type speaker set to operate even a single *JUMBRELLA* structure in the stereo mode. Due to the basic layout of the frame contained »Sound« equipment, "area" hi-fi sound quality can also be achieved e.g. for a row, crosswise or square configuration of *JUMBRELLAs* by equipping just two of the structures with the basic one-speaker system.

1 BOSE speaker mount – small picture: fast to attach, lock and connect.

2 Standard speaker mount

3 Top, just trimmed: BAHAMA »Light«. – Beneath: Multi-distributor terminal with blue-black plugs (»Sound« system), and with blue-white safety plugs (»Heater« equipment).



OPTION: BAHAMA »TVR« – "Textile Linking & Draining Gutters" – to link square or rectangular *JUMBRELLA* structures so to obtain fargoingly coherent sun, rain & self-draining shelters.

BAHAMA »TVR«, more explanatory: "Textile Linking & Drain-off Gutters" have been designed to overbridge the target distances between the canopy edgelines of each two (or more) same-size square or rectangular *JUMBRELLA* structures that are installed adjacent to each other like e.g. in a precise row configuration, and whose footings are level with the finished site ground. The frame-bound premodification, required to attach the gutter to the structural frames, is not retrofittable whereas the suitable gutter unit which is supplied as an assembly kit can be ordered separately lateron. – Frame premodification: # VR-TVR-.... – *JUMBRELLA* model-related gutter kit: # TVR-.....

The cross-sectionally V-shape-tailored textile gutter's upper connecting legs as well as its drain-off fillet are stabilized by stiffening metal profile inserts. Since latters are too long for transport, they are supplied in quasi pluggable part lengths – reason why the gutter part comes as an assembly kit that is to be completed on site.

Part of the gutter kit are stainless-steel adjusting accessories that enable the operator personnel to attach the precompleted gutter to the umbrella frames in such a way that the drain-off fillet ends up strictly linear so to make sure that rainwater can flow away. Due to the gutter's longitudinally symmetric design, its draining direction can be selected.



THE *JUMBRELLA*'s DESIGN AND FUNCTIONAL CRITERIA – Kinematic System, Materials, Structural Finish, Membrane Editions.

All *JUMBRELLA* models have been certified by German public TÜV. Their fail-safe since driveless, mechanically unfolding and pretensioning system is based on BAHAMA's internationally registered patent on a servo-assisted, positively counter-moving telescopic mechanism that dispenses with any kind of mechanical or electric drive. Due to the said kinematic system, all *JUMBRELLA* models, when in refolded configuration, have a distinctly lower overall elevation than any other sizewise comparable folding umbrella by which, in turn, transport lengths of packed structures are reduced respectively.

High-quality materials

All structural members of the *JUMBRELLA* frame are modular design, and are made of functionally chambered extruded aluminium profiles. CNC-machined components are made of massive alu material. All slider bearings are in self-lubricating, non-hygrosopic synthetic resin material. Assembly elements such as e.g. axle bolts, screws etc. are in V2A stainless steel or, with the »*Maritime*« frame edition, in V4A off-shore steel material. Replaceable-design textile *JUMBRELLA* membranes are made of »*betex®05*«, BAHAMA's state-of-the-art fabric material, and may be selected either one from a choice of 22 plain colour shades.

Surface Finish

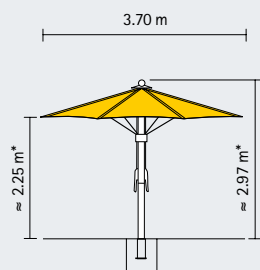
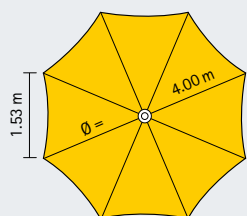
All structural frame components are PES powder-coated and baked at ~190° C in standard white to RAL 9016. For a surchargeable option, they can be finished in any other RAL colour shade.



All colour shades – except white-translucent – of the »*betex®05*« high-performance fabric material *JUMBRELLA* membranes are made of have been rated "UPF50+" (excellent) in accordance with the testing standard DIN EN 13758 (dermatological protection).



Models by Shape & Size Specifications



MODEL

C3040
Ø 4.00 m
= 12.00 m²

Overall elevation AFGL / CLOSED

≈ 3.70 m*

Furniture clearance during transition

≈ 1.50 m*

Transport package by Ø x length

≈ 0.36 x 3.92 m

Erection / handling weight (nett)

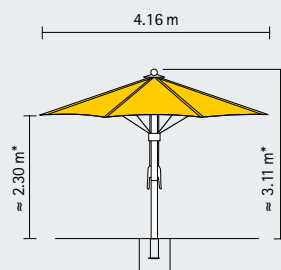
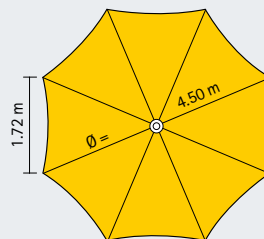
≈ 40 kg

Shipping weight (gross)

≈ 61 kg

Max. allowable wind / OPEN**

95 km/h** (Beauf. 10)



C3045
Ø 4.50 m
= 15.00 m²

≈ 3.85 m*

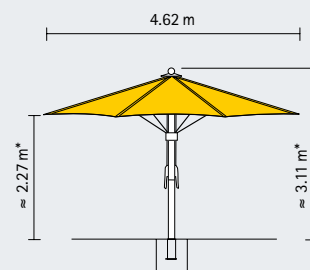
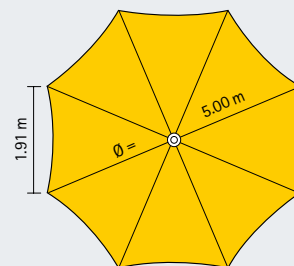
≈ 1.40 m*

≈ 0.36 x 3.92 m

≈ 45 kg

≈ 66 kg

95 km/h** (Beauf. 10)



C3050
Ø 5.00 m
= 19.00 m²

≈ 3.85 m*

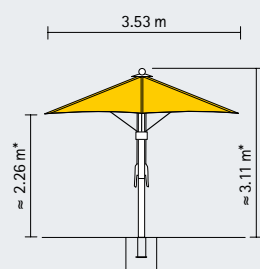
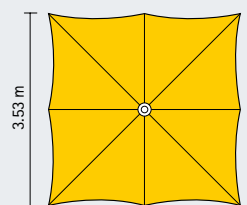
≈ 1.15 m*

≈ 0.36 x 3.92 m

≈ 53 kg

≈ 74 kg

88 km/h** (Beauf. 9)



MODEL

C3135
□ 3.50 m
= 12.00 m²

Overall elevation AFGL / CLOSED

≈ 3.85 m*

Furniture clearance during transition

≈ 1.19 m*

Transport package by Ø x length

≈ 0.36 x 3.92 m

Erection / handling weight (nett)

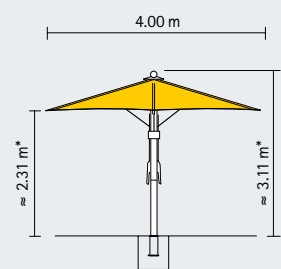
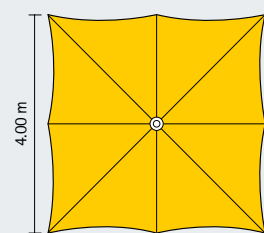
≈ 42 kg

Shipping weight (gross)

≈ 63 kg

Max. allowable wind / OPEN**

95 km/h** (Beauf. 10)



C3140
□ 4.00 m
= 16.00 m²

≈ 3.75 m*

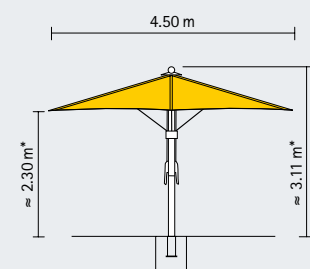
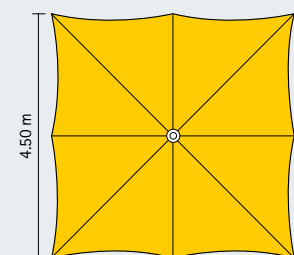
≈ 0.80/1.59 m*

≈ 0.36 x 3.92 m

≈ 45 kg

≈ 66 kg

88 km/h** (Beauf. 9)



C3145
□ 4.50 m
= 20.00 m²

≈ 3.85 m*

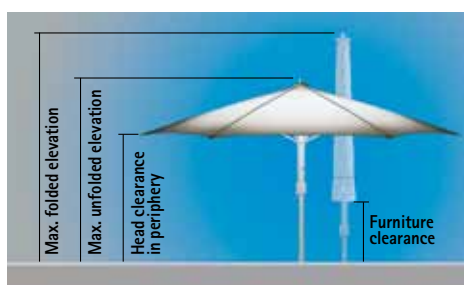
≈ 0.54/1.44 m*

≈ 0.36 x 3.92 m

≈ 56 kg

≈ 77 kg

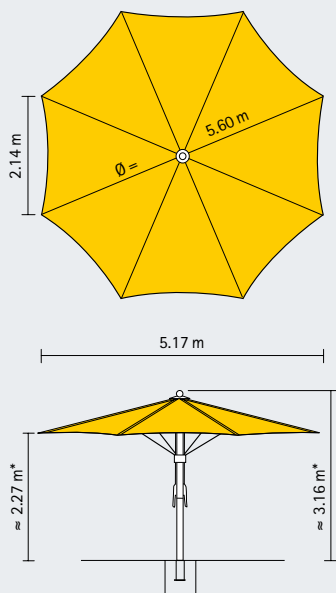
74 km/h** (Beauf. 8)



* These model-associated approx. vertical measurements refer to finished ground level and to **JUMBRELLAs** installed "permanent" by means of the manufacturer's original footing sleeve or console devices. In case of "mobile" installation by means of »Portable Universal Foot«, respective measurements are to be assumed **increased** by 5-11 cm each (relative to the cm amount as may be required for levelling).

** The model-associated »Max. allowable wind / OPEN**« capacity to withstand horizontal wind solely applies to "permanent" **JUMBRELLA** installations, and may only be considered valid and applicable on condition that such installations were/are executed by using, or having used, the manufacturer's original in-ground footing sleeve or console devices in compliance with the factory's technically binding written or drawn instructions.

Besides, the model-associated »Max. allowable wind / OPEN**« definition is **n o t** applicable to **JUMBRELLA** structures whose original



C3060

Ø 5.60 m
= 24.00 m²

≈ 3.87 m*

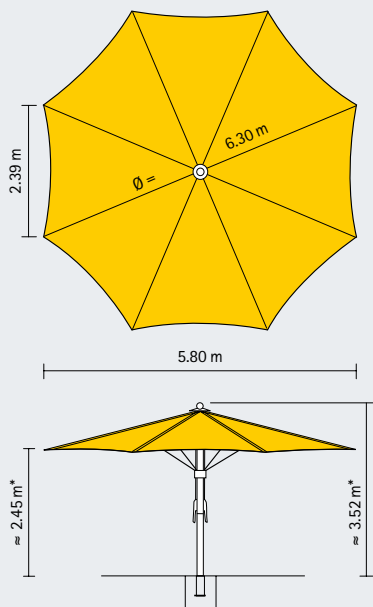
≈ 0.90 m*

≈ 0.36 x 3.92 m

≈ 65 kg

≈ 87 kg

74 km/h** (Beauf. 8)



C3063

Ø 6.30 m
= 29.00 m²

≈ 4.26 m*

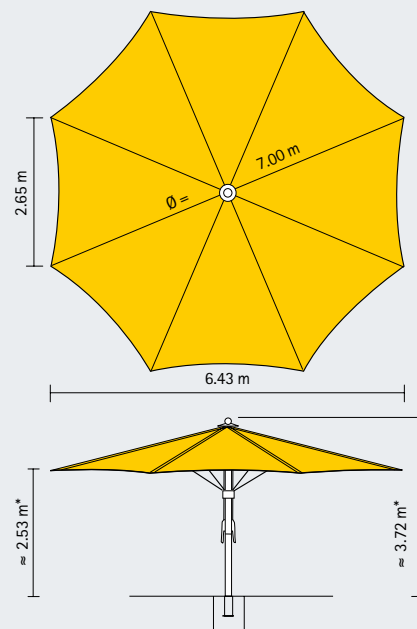
≈ 0.95 m*

≈ 0.43 x 4.37 m

≈ 77 kg

≈ 103 kg

48 km/h** (Beauf. 6)



C3070

Ø 7.00 m
= 36.00 m²

≈ 4.46 m*

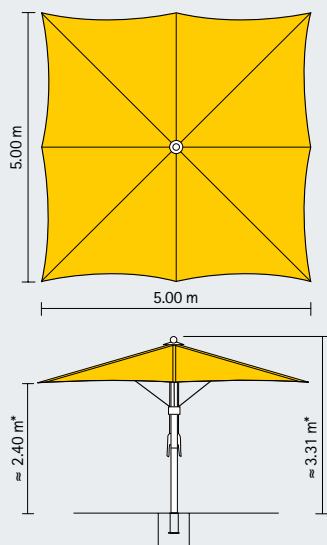
≈ 0.85 m*

≈ 0.43 x 4.57 m

≈ 90 kg

≈ 116 kg

38 km/h** (Beauf. 5)



C3150NNK

□ 5.00 m
= 25.00 m²

≈ 4.01 m*

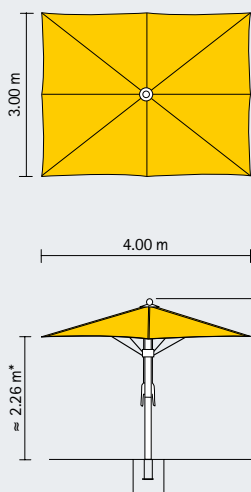
≈ 0.38/1.37 m*

≈ 0.41 x 4.17 m

≈ 75 kg

≈ 100 kg

74 km/h** (Beauf. 8)



C8-3140/30

□ 4.00 x 3.00 m
= 12.00 m²

≈ 3.76 m*

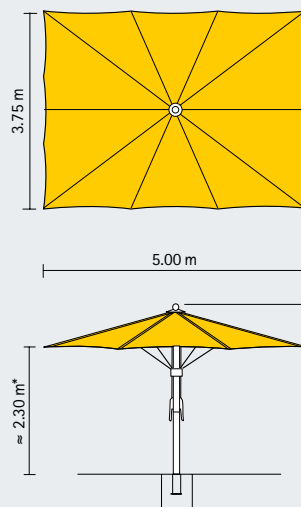
≈ 1.11 m*

≈ 0.41 x 3.90 m

≈ 50 kg

≈ 76 kg

88 km/h** (Beauf. 9)



C10-3150/375

□ 5.00 x 3.75 m
= 19.00 m²

≈ 4.16 m*

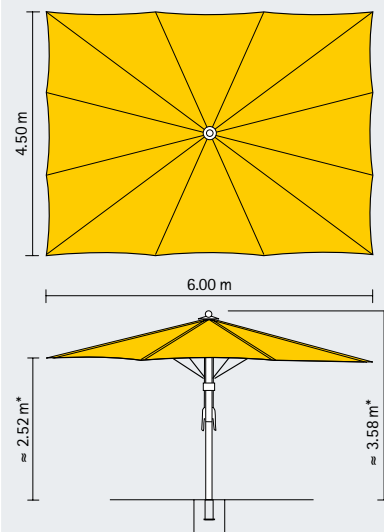
≈ 0.92 m*

≈ 0.43 x 4.37 m

≈ 64 kg

≈ 90 kg

74 km/h** (Beauf. 8)



C12-3160/45

□ 6.00 x 4.50 m
= 27.00 m²

≈ 4.75 m*

≈ 0.86 m*

≈ 0.46 x 4.90 m

≈ 80 kg

≈ 114 kg

50 km/h** (Beauf. 6/7)

BAHAMA membrane has been on the structure for more than 25 (24+1) months since ex-factory date of shipment. In particular, it is not applicable to JUMBRELLA structures whose fabric membranes are, or have been, replaced by alien-made & supplied fabric membranes i.e. any such membranes that are not, or have not been, cut, tailored and supplied by the BAHAMA factory.

The model-associated »Max. allowable wind / OPEN**« for JUMBRELLA structures that have been, or are intended to be, installed "mobile" and,

provided that such "mobile" installation is/has been executed by using the original BAHAMA "U333"-type heavy-weight foot as declared minimum suitable for each JUMBRELLA model, is to be assumed **reduced by no less than 25%** from the respective capacity indicated for "permanent" installation.

In the event that public significant wind warnings forecast local or regional storm and/or peak gust velocities in km/h** exceeding the indicated »Max. allowable wind / OPEN**« value (for "permanent" and/or "mobile" installation), the JUMBRELLA is

to be closed & secured timely in advance. Under no circumstances shall the operator of the structure wait until wind comes up visibly. Fastest and best way to close, lock & secure the structure is to slip over and bind its # WSH-J or WSH-T-type reusable protective cover. Or, second best but more time-consuming way - if the original reusable protective cover either not existing or at hand, is to refold the structure, reef & spiral its membrane, and secure the spiraled structure by attaching all of its original buckle harnesses.



BAHAMA JUMBRELLA CXL : Ø 7.00 m »traditionale



BAHAMA EVENT : □ 4.0 x 4.0 m »contemporary



Architectural line BAHAMA LARGO : □ 8.0 x 8.0 m



Architectural line BAHAMA MAGNUM : □ 8.0 x 8.0 m



BAHAMA factory at D-51580 Reichshof-Wehrath (Cologne area) — Its ground space including outdoor exhibition totals some 26,000 m².

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