



# Mobil A2R

Operating instructions | Bedienungsanleitung | Mode d'emploi



### Controls and displays

1. Switch "on/off"
2. "eco" switch for normal charge
3. Sync socket
4. Radio antenna
5. Radio on/off
6. Master power selector „up/down“
7. Flash energy control display
8. IR receiver cell
9. Photocell
10. Power output distribution display
11. Power output distribution key
12. Green ready lamp
13. Test key
14. Modelling light on / off
15. IR receiver on / off
16. Photocell on / off
17. Battery charge status display
- 18.1. Outlet I
- 18.2. Outlet II
19. Charge socket for battery in power pack
20. Plug-in rechargeable battery
21. Charge socket for rechargeable battery
22. Locking device

### Bedienungs- und Anzeigeelemente

1. Schalter „ein/aus“
2. „eco“-Schalter für Normalladung
3. Synchronbuchse
4. Radio Antenne
5. Radio ein/aus
6. Hauptenergieregulation „auf/ab“
7. Leuchtziffernanzeige Energieregulation
8. IR Empfängerzelle
9. Fotozellen
10. Anzeige Leistungsverteilung
11. Leistungsverteilungstasten
12. Bereitschaftsanzeige grün
13. Testauslösung
14. Einstelllicht ein/aus
15. IR Empfänger ein/aus
16. Fotozelle ein/aus
17. Anzeige Ladezustand Akku
- 18.1. Leuchtenbuchse I
- 18.2. Leuchtenbuchse II
19. Ladebuchse für Akku am Generator
20. Plug-in Akku
21. Ladebuchse für Akku
22. Verriegelungsmechanismus

### Eléments de commande et d'affichage

1. Interrupteur principal (en / hors service)
2. Interrupteur « eco » pour charge normale
3. Prise de synchronisation
4. Antenne radio
5. Radio (en / hors service)
6. Réglage de la puissance principale « +/- »
7. Affichage numérique éclairé pour le réglage de la puissance
8. Cellule réceptrice IR
9. Cellule photo-électrique
10. Affichage de la répartition de la puissance
11. Touche de répartition de la puissance
12. Touche verte indicateur de disponibilité
13. Touche « test »
14. Lumière de mise au point (en / hors service)
15. Récepteur IR (en / hors service)
16. Cellule photo-électrique (en / hors service)
17. Affichage de l'état de charge de l'accumulateur
- 18.1. Connecteur de torche I
- 18.2. Connecteur de torche II
19. Prise de charge pour accumulateur sur le générateur
20. Accumulateur enfichable
21. Prise de charge pour accumulateur
22. Mécanisme de verrouillage





**Before use**

We are pleased you have chosen a broncolor Mobil A2R power pack which is a high-quality product in every respect. If used properly, it will render you many years of good service. Please read all the information contained in these operating instructions carefully. They contain important details on the use, safety and maintenance of the appliance. Keep these operating instructions in a safe place and pass them on to further users if necessary. Observe the safety instructions.

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## IMPORTANT SAFETY INSTRUCTIONS

**broncolor flash light systems should be utilised exclusively for professional photo shootings and only by qualified personnel. Before starting up your flash light equipment read carefully all the information in your operating instructions. The safety instructions in the operating instructions must be strictly followed!**

- Read and understand all instructions before using!
- Remove the transport protection and the packing material
- Close supervision is necessary when any appliance is used near children. Do not leave the flash light appliance unattended while in use!
- Flash light contains, similar to sunlight, a specific portion of UV radiation! The undesirable side effects on skin and eyes are considerably reduced by using flash tubes or protecting glasses with UV safety measures! Nevertheless, taking pictures at close distances with unprotected skin and eyes should be avoided! Also avoid eye contact with the light source! The maximum daily UV radiation according to IEC 60335-2-27 / DIN 5031-10 is: 50 J/m<sup>2</sup>. This value should not be exceeded!
- With due allowance for heat radiation, the distance between the lamp and a person or between the lamp and inflammable respectively heat sensitive surfaces should be at a minimum distance of 1 m!
- The power pack must be switched off to plug-in and to unplug! The lamp plugs and sockets have mechanical interlocks! When plugging in, ensure that those interlocks engage completely! To unplug, push down the locking spring below the cable guide and lift out the plug from the socket!
- Prior to replacing flash tubes, halogen lamps, protecting glasses or fuses, disconnect the power pack and the lamp from the power supply! Prior to replacing the halogen lamp or the flash tube, the lamp should cool down for 10 min!
- broncolor flash light systems should only be equipped with original broncolor flash tubes, original broncolor packing material, original broncolor accessories, and also original broncolor spare parts!
- broncolor power packs, lamps and accessories meet an extremely high safety standard! When connecting broncolor lamps to power packs of other brands or broncolor power packs to lamps or accessories of other brands, integrated safety measures may become ineffective! Due to different design features and contact assignment of the lamp plugs of other brands, the user himself/herself may even be at risk. We offer no guarantee and accept no liability for damages which may be caused by this type of usage!
- Only lamps which are approved for operation with this power pack should be utilised!
- Only earthed extension cables which are approved for operation with the corresponding lamp should be utilised!
- To avoid the risk of fire, electric shock or injury to persons utilise exclusively the accessory recommended by the manufacturer!
- Check that the mains voltage corresponds to the information on the type plate of the unit!

- The flash light equipment is designed for use in dry conditions and in an ambient temperature from 0°C to 35°C! The flash light equipment has to be protected from wetness, condensation, from dripping and splash water, humidity, dirt, sand, metal chips and exposure to dust!
- Protect the flash light equipment from electromagnetic fields, shock and vibration!
- Protect the flash light equipment from heat and frost! If the power pack freezes continuous loss of power output and serious technical damage can result!
- To prevent accidents, make sure that the battery completely locks into place. Lift the power pack with caution.
- Sudden temperature differences can cause condensation water in the unit! In such situations the equipment must stay for 1 hour in a well ventilated place to acclimatise to the new temperature before startup!
- Do not operate the units in an environment where there is a risk of explosion!
- The power pack and the lamps should not be operated in or near water! Attention: high voltage!
- The power pack and the lamps should not be immersed in water or other liquids! It could cause an electric shock!
- Remove the transport protection cap on the front side of the lamp and any foam plastic before connecting it to the power pack!
- For safety reasons, never operate the lamp without the protecting glass in place! UV-coated protecting glasses or UV-coated flash tubes must be utilised as a protection against UV radiation for eyes and skin!
- Before operation the lamp has to be fastened on a stand or a suspension device! The lamp must be locked by tightening the mounting screw!
- Only sand-filled fuses of the type indicated on the safety type plate may be used! Sand-filled fuses can be identified by their opaque fuse body! With incorrect fuse protection the halogen lamp may burst!
- Filters or diffusors should not be fastened directly on the flash tube, halogen modelling lamp or protecting glass!
- Do not operate appliance with a damaged earthed cable. Cables which are damaged or twisted must be replaced!
- The battery must only be charged on an earthed socket, or an emergency power generator!
- If an extension cable is necessary, a cable with a current rating at least equal to that of the appliance should be used. Cables rated for less amperage than the appliance may overheat. When using a cable reel, it must be completely unrolled before use to prevent overheating of the cable!
- Do not operate the unit inside a bag or any kind of container!
- The ventilation slits on the unit or on the lamp should not be covered!
- Pay attention when laying, clearing away or rolling up cables that they do not contact hot surfaces or parts of lamps and that they will not be tripped over by persons!

## IMPORTANT SAFETY INSTRUCTIONS ⚠

- Do not touch the connection sockets for mains cable and lamp outlets on the power pack and do not poke in them with metal objects!
- Flash tubes, modelling light, halogen lamps and protecting glasses heat up to a high operating temperature, this also applies to the front side of the lamps! Therefore the attachments also assume high temperatures! Handle with care! Contact with hot components can cause injuries!
- Do not come into contact with glass or metal whilst operating the flash light system!
- Let the unit and its connected lamp cool completely after use and before packing!
- Always unplug appliance from electrical socket before cleaning and servicing and when not in use! Never jerk cable to pull the plug from the socket. Grasp plug and pull to disconnect!
- Dropped or damaged units or lamps must be checked by a specialist before reconnection!
- To reduce the risk of electric shock, never open the power pack and lamps! Dangerous voltages could still remain inside the unit even after it has been disconnected from the mains supply. Therefore, take the unit to an authorised broncolor service station when service or repair work is required. Incorrect reassembly can cause electric shock, even when the unit is closed.

### Shipping instructions Mobil A2R:

Use original broncolor packing or the travel kit bag for the transport of the power pack!

### Shipping instructions lamps:

Use original broncolor packing for the transport of the lamps. Before shipping flash tubes, halogen lamp and protection glass pack them with our protective packing material (foam plastic and transport cap). If the protective packaging is incomplete, remove flash tube, halogen lamp and protection glass from the lamp and send them separately!



## 1. STARTUP

### 1.1 Battery operation

#### 1.1.1 Startup

Remove protective cardboards from battery contacts before use.

Use the switch "on/off" (1) to power up the unit and check the display "charge state" (17). If the stored energy of the battery is less than 10 % it must be charged by means of the charger (charging time approx. 3 hours for approx. 90 % of charge) or change to another battery. Before powering up the unit for the first time, it is recommended to charge the battery.

#### 1.1.2 Changing the battery

Switch off the unit before changing the battery.

Please check the contact surfaces of the battery for soiling to guarantee a good contact. Prior to inserting the battery ensure that the side with the contacts is directed towards the opening of the power pack compartment.

Now slide the battery into the power pack compartment and fasten it by firmly pushing down the power pack, from the top, onto the battery which is standing on the floor. Make sure that the contact springs in the battery compartment are not dirty or damaged. When changing the battery press the locking mechanism at the bottom (22) together using finger and thumb. The two big contact springs slide the battery out so far that the user may grip it.



**Attention! To prevent accidents and damage to the battery, make sure that the battery completely locks into place. Lift the power pack with caution and check that it is correctly fitted.**

## 2. ENERGY CONTROL

### 2.1 Mobil A2R

Use the "up/down" keys (6) to control the flash energy within a range over 4 f-stops. A value of 10 in the display indicates maximum energy, 6 minimum. Whole numbers are full f-stop intervals, decimals indicate 1/10 f-stop steps. Brief pressure on the "up/down" keys (6) runs the power up (or down) by a 1/10 f-stop interval, prolonged pressure by a full f-stop. The display (7) then blinks until charging or discharging has stabilized the new level.

Three different power output distributions (10) are available when 2 lamps are connected: 50/50 %, 70/30 % and 80/20 %. They can be altered with the key "up/down" (11).

### 2.2 Battery charge state display

The LEDs (17) indicate the residual charge state of the battery. The green LEDs light when the battery has been 100 % charged, and also during flashing with the unit.

An orange LED warns before the charge state of the battery becomes too low. As soon as this appears, the remaining charge state is 20 %. If the battery voltage sinks too low, the control display (7) shows the signal „A2“. The unit remains blocked for further releases until the battery is recharged or replaced with a full one.

## 3. MODELLING LIGHT

The output of the modelling light cannot be set proportionally to the flash intensity and always corresponds to the full power output ratings on full power of the connected halogen lamp.

### 3.1 Battery operation

The "mod" key (14) switches the modelling lamps on or off for all connected lamps. When switched on, the green LED lights up. With regard to the control of the modelling light this power pack has an automatic switch-off during battery-powered operation. If the "mod" key is pressed again within 1,5s after activating the modelling light, the switch-on time will be extended, with each pressure of the key, by a further 20s. By pressing the "mod" key, once only, to activate the modelling light, the switch-on time is 20s. If the key is pressed 4 times consecutively the maximum switch-on time of 80s is attained. An audible signal sounds with each pressure of the key. This function ensures a prolonged battery service life.

Specially for mobile work with this battery-operated power pack broncolor offers the Mobilite 2 small lamp, with built-in reflector and modelling light 12V/100W and own accessories with small dimensions. The lamp has an automatic thermal protection to prevent overheating and an additional switch for the modelling light. The switch on the lamp permits selective lighting control with the modelling light.

The Mobil A2R power pack can also be used with conventional broncolor studio lamps (Picolite, Pulso and Unilite lamps). The modelling light cannot be used.

## 4. RELEASE

### 4.1 Photo cell (cell) and infrared receiver (ir)

The photo cell can be switched on or off by using the "cell" key (16), the infrared receiver by using the "ir" key (15). If they are activated the green LED lights up.

### 4.2 Infrared flash release channel

Mobil power packs can be triggered with broncolor infrared transmitters. If the power pack is triggered via infrared, the flash release follows with a time delay of 1/1000s. The power pack can be triggered as soon as 100% of the charge are reached.

### 4.3 Sync socket

Synchronous cables art. no. 34.111.00 or 34.112.00 may be plugged into the socket (3) to release flashes via cable.

### 4.4 "test" key

Key (13) allows the power pack to be manually released.

### 4.5 Radio signal receiver

The Mobil A2R power packs can be triggered with the broncolor transmitter RFS and transceiver RFS (control of the power output is not possible). Mobil A2R works standard only with channel 1. With Mobil A2R units, the radio signal receiver can be switched on and off (5). If this one is activated the green LED lights up.

## 5. FLASH READY SIGNALS VISUAL / AUDIBLE

### 5.1 The visual ready signal

is the green LED (12) at the "test" key (13). It lights up only when the unit is fully charged. After a flash this LED goes out and lights up again when the unit is fully charged once more.

### 5.2 The audible signal (buzzer)

sounds when the power capacitors are at 100% charge. It may be switched on or off. This is explained in chapter 6.3.

### 5.3 Audible alarm signal

When the flash discharge fails, an audible warning signal of approx. 3s duration will sound.

## 6. SELECTING ADDITIONAL FUNCTIONS

### 6.1 Switch "eco" (2)

By using the key "eco" (2) the power pack switches to normal charge. This results in an increased number of flashes per charge and a longer battery service life (see chap. 8).

### 6.2 Automatic switch-off

The power pack switches-off automatically after a selectable delay time. A delay time of 15 min. is factory-set.

Setting of the delay time (in min.): Press the "up/down" keys (6) simultaneously once. Afterwards, the minute values are set with the same keys. 3s after setting the display returns to the energy display.

### 6.3 Buzzer

The audible signal sounds when the power capacitors are at 100% charge. The signal may be switched on or off.

Press the key "eco" (2) for 3s.

## 7. PROTECTIVE FACILITIES / FAULT INDICATION

### 7.1 Monitoring in the power pack

To protect against overheating, the message "th" will appear on the flash energy control display (7) until the unit has cooled down sufficiently and is again ready for operation.

If the power pack is unable to charge properly the LCD display (7) will show the message „A1“. This can happen when there is afterglow of a flash tube or when the battery is defective. The alarm will disappear after the fault has been corrected, and subsequently switching the unit off and on again.

In case the voltage of the battery should sink extensively, the message "A2" will appear on the LCD display (7). The unit is blocked for further triggering until the battery is charged.

Mobil A2R have an emergency stop switch. This completely separates the battery from the unit when the battery is in danger of becoming flat. In this situation the unit does not react to key operation. The battery must then be charged and reinserted in the unit.

If the alarms "A1" or "A2" continue to appear on the LCD display (7) after changing the flash tube or the battery respectively, it is a must to contact the service station. The message "A3" on the LCD display (7) indicates a technical defect. The unit must be brought to the service station for a check.

If there is no flash discharge after a flash release (e. g. if a flash tube is not connected in the lamp), an audible alarm signal will sound.

## 7. PROTECTIVE FACILITIES / FAULT INDICATION

### 7.2 Thermal protection Mobilite & Mobilite 2

When the lamp temperature rises during operation, the cooling fan will switch on when necessary. If high temperatures build up due to longer, faster flash series (e.g. operation with Verso power pack) the flash triggering will be blocked.

## 8. CHARGING OF THE BATTERY WITH BATTERY CHARGER

The battery can be charged in (19) or out (21) of the unit as the power pack and the battery compartment are fitted with the necessary round plug. The charger no. 36.128.00 charges the battery in two levels, which are displayed by the integrated LED:

- **LED lights red:** The battery is empty
- **LED lights yellow:** The battery is charged in quick charge mode up to approx. 90% of full charge. Duration depending on status of charge, up to 3 hours.
- **LED lights green:** The battery is being recharged slowly to 100% (duration up to approx. 4 hours) and then kept on charge.

## 9. MAINTENANCE AND BATTERY CARE

The battery (20) used is sealed and does not require any special care. It does not show any particular "memory effect" and does not need to be discharged regularly. Ensure, however, that the battery does not discharge too far down as the unit will switch off automatically when the battery voltage sinks too low. As a leakage current flows even when the unit is switched off, it is highly recommendable to charge the battery after use. If the battery is not in use for a longer period of time, take it out of the unit.

Particularly observe the following important information concerning maintenance and handling of the battery

-  **Attention important instructions!**
- **Charge the battery before startup.**
  - **We recommend to charge the battery every time after use, even if it is only partly discharged. A long period of time between charging and discharging of the battery can influence its performance, or reduce the service life, respectively.**
  - **Ensure that the battery does not fully run down.**

### 9.1 Battery care

To guarantee a longer lifespan of the battery we advise to charge it completely at these specific times:

- If possible, every time after use
- Always before longer storing or non-use
- At least, in 3 month intervals

Even if the battery was partly recharged it can be utilised without problem as it does not suffer from the inconvenient memory effect. Utilisation after longer storing: The battery should be charged to compensate the loss of its own discharging during storage.

### 9.2 External charger

Please take into consideration that a battery should not be charged for longer than 8 hours. After it must be disconnected from the mains supply. A fully charged battery should not be recharged.

Symptoms of a defective battery:

- Rapid loss of power after complete charge
- Noticeable reduction of the number of flashes

### 9.3 Connecting cable

When charging the battery by means of a cigarette lighter with a connecting cable no. 34.113.00, make sure that the car motor is running.

## 10. LAMPS

### 10.1 General

The flash energy is distributed symmetrically or in the selected asymmetry (10) to the lamps connected.

The Mobil A2R power pack can basically be operated with all lamps of the broncolor range up to 3200 J. Specially for mobile work with this battery-operated power pack, broncolor offers the small lamp Mobilite 2 art. no. 32.012.00 with built-in reflector and halogen light 12V/100W, and own accessories with small dimensions identical to the Picolite accessories. The Pulso adapter art. no. 33.501.00 allows the use of light reflectors and accessories from the Pulso range. If the Mobil power pack is being operated with battery, the modelling light of the traditional broncolor studio lamps cannot be used.

More details about the small lamps Mobilite, Mobilite 2 and Picolite may be found in the corresponding product information.

## 10. LAMPS

### 10.2 Replacing flash tubes and halogen lamps

Prior to any change of the flash tube or halogen lamp bulb, the lamp must be disconnected from the power pack! Halogen lamps and flash tubes can be plugged in.

To change the flash tube and halogen lamp release the spring ring and remove the protecting glass. The flash tube must be pulled out straight along the lamp base axis. When inserting the tube be sure that it is fully pushed in.

Taking the lifespan into consideration, the halogen lamp should not be handled with bare hands. Finally, replace the protecting glass and fasten with the spring ring. The protecting glass is available in the versions "UVE" art. no. 34.332.55 (5500 K) and "UVE matt" art. no. 34.335.55 (5500 K).

### 10.3 Lamp plugs

The lamp plugs and sockets carry mechanical interlocks to prevent inadvertent disconnection. To unplug, push down the locking spring below the cable guide and lift out the plug.

### 10.4 Extension cable for Mobilite

The extension cable (3,5 m), available as accessory with the article no. 34.150.00, is especially thin and flexible. It can only be used with the Mobilite and Mobilite 2. Should this cable be used with other lamps the modelling light and fan will not function.

### 10.5 Lamp fuses

Only sand-filled fuses of the type indicated on the type plate may be used; otherwise the halogen lamp may explode.

## 11. SPECIAL FEATURES

### 11.1 Cooling fan

The cooling fan of the power pack Mobil A2R operates for 20 minutes after switch off, this guarantees correct cooling down of the electronics.

## 12. TECHNICAL DATA

Flash energy	1200 J
F-stop at distance of 2 m (6 1/2 ft), 100 ISO, reflector P70	45 6/10
With Mobilite 2	22 4/10
Flash duration t 0.1 (t 0.5)	for 1 lamp: 1/230 (1/680) s for 2 lamps: 1/360 (1/1100) s with symmetrical power distribution
Charging time (for 100 % of selected energy)	fast charge: 0.8 – 2.9 s normal charge: 1.2 – 5 s
Normal charge	to protect the battery
Ready display	visual and audible (can be switched off); signals when 100 % of selected energy is reached
Lamp outlets	2
Power output distribution	symmetrical / asymmetrical 50/50%, 70/30%, 80/20 %
Controls	fully illuminated silicone keyboard, resistant to dust and scratches, LCD display
Control range	over 4 f-stops in 1/10 f-stop intervals with asymmetry over 6 f-stops
Modelling light	max. 2x halogen 100 W on time setting limited to 20 s to protect the rechargeable battery. If desired, also longer – up to 80 s
Flash release	manual release button, sync cable, transmitter RFS, trans- ceiver RFS, FCM 2, FCC, IRX 2, IRQ, selectable photocell or wireless via built-in selectable infrared and radio receiver
Radio release	outdoors up to 50 m (164 ft.) (possible range up to 200 m / 656 ft.) indoor up to 30 m (98 ft.) (possible range up to 200 m / 656 ft.)
No. of flashes per fully charged battery	fast charge: approx. 130 normal charge: approx 170
No. of sync sockets	1
Stabilized flash voltage	± 0.5%
Standards	EC standard 73/23, UL 122
Dimensions	240 × 152 × 294 mm / 9.4 × 6 × 11.6 inches
Weight	9.2 kg / 20.3 lbs
Scope of delivery	power pack mobil A2R, battery, protective dust cover for battery, operating instructions
	Subject to change in the interest of product enhancement.

## 13. GUARANTEE

All broncolor power packs, lamps, monolights and accessories have a high quality standard. We offer a 2-year factory guarantee from the date of purchase (for the first owner) on the aforementioned units, except for flash tubes, halogen lamps, protecting glasses, cable, batteries, rechargeable batteries and textiles.

Faults resulting from non-observance of safety instructions, incorrect handling, use of accessories of another manufacturer or unauthorised intervention/modification are excluded from the factory guarantee. We assume no liability for damages resulting from non-observance of the safety instructions, incorrect handling, use of accessories of another manufacturer or unauthorised intervention/modification.

In case of technical problems please contact immediately the nearest authorised broncolor service station.

Thanks for having chosen a product from our company. We wish you much pleasure and success with our products.

### July 2008

Article numbers, product descriptions and scope of delivery can vary from one country to another. Detailed information are available in internet under [www.bron.ch](http://www.bron.ch) or from our broncolor distribution partner. Errors and misprints excepted.



## MOBIL A2R BESTSELLER

**Standard reflector P70**  
**Normal-Reflektor P70**  
**Réflecteur normal P70**  
33.107.00



**Narrow angle reflector P45**  
**Engstrahl Reflektor P45**  
**Réflecteur petit angle P45**  
33.104.00



**Ringflash C**  
32.462.XX



**Softreflektor**  
**zu Ringflash C**  
33.123.00



**Honeycomb grid for Ringflash C, 3 pieces**  
**Wabenraster zu Ringflash C Set zu 3 Stück**  
**Grille en nid d'abeilles pour Ringflash C, Jeu de 3 pièces**  
33.219.00



**Pulsoflex EM**  
**80 x 80 cm**  
33.407.00



**Pulsoflex C**  
**60 x 100 cm**  
33.443.00



**Adaptateur de projection pour Picolite**  
**Projektionsvorsatz zu Picolite**  
**Projection attachment for Picolite**  
33.641.00



**Fresnel spot attachment for Picolite/Mobilite 2**  
**Fresnel-Spotvorsatz zu Picolite/Mobilite 2**  
**Adaptateur spot Fresnel pour Picolite/Mobilite 2**  
33.631.00



**Attachment with 3 honeycomb grids and**  
**2 aperture masks for Picolite/Mobilite 2**  
**Vorsatz mit 3 Wabenrastern und**  
**2 Lochmasken zu Picolite/Mobilite 2**  
**Adaptateur avec 3 nids d'abeilles et**  
**2 masques à trou pour Picolite/Mobilite 2**  
33.204.00



**Barn door for Picolite/Mobilite 2 with 4 wings**  
**Abschirmklappe mit 4 Flügeln zu Picolite/Mobilite 2**  
**Coupe-flux à 4 volets pour Picolite/Mobilite 2**  
33.244.00



**Pulso adapter for Picolite/Mobilite 2**  
**Pulso-Adapter zu Picolite/Mobilite 2**  
**Adaptateur Pulso pour Picolite/Mobilite 2**  
33.501.00



**Picobox for Picolite**  
33.128.00



**Sender RFS**  
36.130.00



**IRX 2**  
36.116.00





Il Paulo Filgueiras, New York



Il Urs Recher, Switzerland

## BRONCOLOR LIGHTING COURSES BRONCOLOR LICHTSCHULUNG STAGE DE FORMATION À L'ÉCLAIRAGE BRONCOLOR

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