

 **broncolor[®]**
Radio Frequency System (RFS)

Operating instructions

1.1 Flash unit

Broncolor power packs or compact units with integrated RFS interface. For remote control, respectively flash triggering of the unit by radio from the transmitter RFS or transceiver RFS from a PC or Macintosh computer. For on-screen control, up to four lighting situations can be stored in memory. Each RFS unit is assigned with an individual unit address and a studio workstation (remote control channel) for the purpose of remote control, respectively flash triggering via radio. Due to the digitally coded channels it is possible to shoot in the same room from several workstations independently, without any interference between the flash units.

Attention: Although this radio frequency system offers the choice between 10 different radio channels, the number of effectively available channels depends on the connected RFS flash unit.

You will find more instructions in the operating manual of the corresponding flash unit.

1.2 Transmitter RFS

Radio transmitter with 10 digitally coded channels for wireless triggering of broncolor flash units with an integrated RFS interface. It is contained in a plastic housing and has a fixation base for the camera's hot shoe and a sync cable. Synchronization of the flash takes place via the accessory shoe or the sync connector of the camera. The operational distance for power packs outdoors is up to 50 m; in closed rooms up to 30 m, compact units up to 30 m / 20 m. Each data command is shown by the green LED. The radio transmitter is provided with a lithium button cell (approx. 5-year service life) and is permanently operational.

Regulation of power

The transmitter has a test button to trigger the flash as well as two buttons for power regulation of all RFS flash units of the selected workstations. A short press of the buttons energy regulation buttons "up/down" changes the settings by 1/10 f-stop, a long press by 1/1 f-stop.

Technical data

Number of channels:	10
Operational distance outdoors:	up to 30 m / 50 m
Operational distance in closed rooms:	up to 20 m / 30 m
Range:	up to 300 m
Dimensions (L x B x H):	71,5 x 47 x 56,5 mm (incl. antenna and base plate)

Technical data (continued)

Weight:	55 g
Trigger sequence per s:	10
Power supply:	Button cell Li-Mn CR2450, 560mAh, 3V

1.3 Transceiver RFS

Radio transceiver with actually 10 digitally coded channels for wireless remote control and flash triggering of the broncolor RFS flash units from a PC or Macintosh computer. The effective number of available channels depends on the connected flash unit. The transceiver is contained in a plastic housing and has an USB connection cable as well as a sync cable. A base plate is mounted underneath the housing. The computer supplies the unit with power. Therefore there is no need for an additional energy source. The system software is supplied on a data carrier.

The transceiver allows the operation of all unit functions from a PC or Macintosh computer, however the operating controls remain active on the unit front plate. The actual control condition is shown on the computer.

Flash triggering for shooting must take place directly from the camera. With digital camera systems which have a sync connector at the PC or Macintosh computer, flash synchronization can be effected directly via the sync jack on the transceiver RFS; that means there is no need for a separate RFS camera transmitter. The operational distance for power packs outdoors is up to 50 m; in closed rooms up to 30 m, for compact units up to 30 m / 20 m. Each communication between transceiver and flash unit is indicated by the green LED.

Regulation of power

The transceiver has a test button to trigger the flash as well as two buttons for power regulation of all operated RFS flash units. A short press of the energy regulation buttons "up/down" changes the settings by 1/10 f-stop, a long press by 1/1 f-stop.

Technical data

Number of channels	actually 10
Operational distance outdoors:	up to 30 m / 50 m
Operational distance in closed rooms:	up to 20 m / 30 m
Range:	up to 300 m
Dimensions (L x B x H):	80 x 55,5 x 51,5 mm (incl. antenna and base plate)

Technical data (continued)

Weight:	105 g
Trigger sequence per s:	10
Power supply:	from computer

1.4 Requirements for the environment

Apple Macintosh

With operating system OS 8.6, advisable 9.1 or higher, OS X;
USB-port, memory capacity approx. 5 MB

PC

With operating system Microsoft Windows 98 / WinMe / Win2000 / Windows XP;
USB-port, memory capacity approx. 5 MB

2. Startup

2.1 Transmitter RFS

Scope of delivery: 1 transmitter RFS, 1 button cell Li-Mn, and 1 sync cable.

- 1.) Select the desired studio workstation with the rotary switch at the underside of the transmitter. This number must correspond with the selected studio number of all flash units on this workstation.
- 2.) Slide the transmitter RFS on the camera shoe and, if necessary, connect the delivered sync cable.
- 3.) Before the first commissioning or after longer working breaks the RFS system needs to be calibrated. This occurs by pressing the test button, which is located on the upper side of the transmitter.

2.2 Transceiver RFS

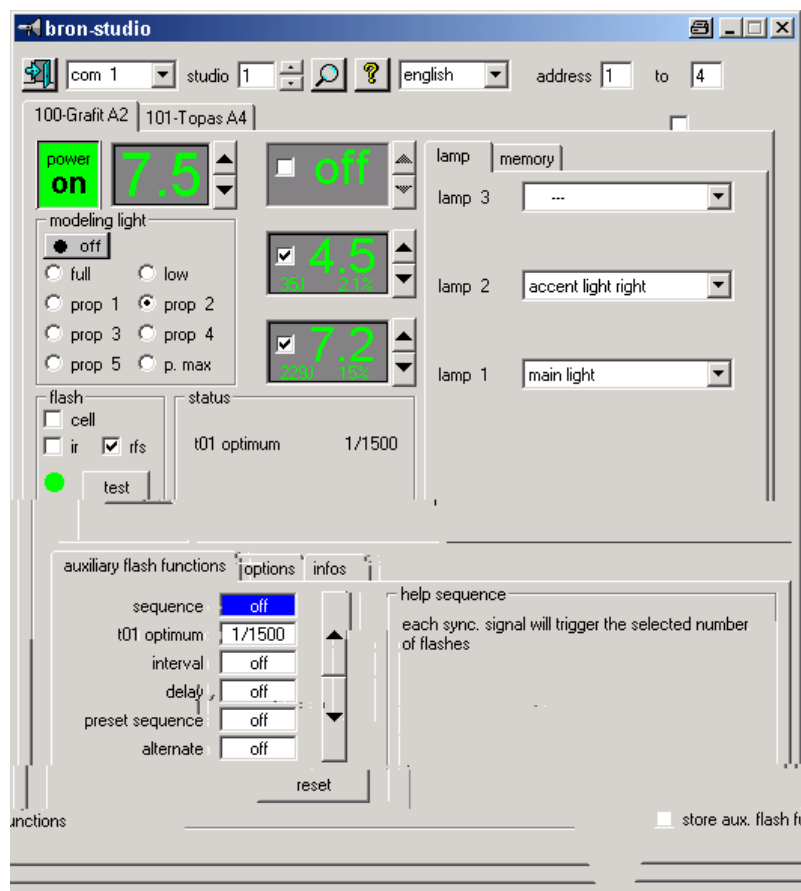
Scope of delivery: 1 transceiver, 1 USB connection cable, 1 sync cable and 1 software data carrier. The data carrier includes 4 data files:

- Software driver for RFS (RFS-driver)
- Software WindowsStudio for PC/Windows
- Software macStudioOSX for Macintosh OS X
- Software macStudioClassic for Macintosh OS 8 and 9

In comparison to the versions PC/Windows and Macintosh Classic, the Macintosh software OS X is irreversible.

Installation

- a) Insert data carrier with the broncolor software in the computer drive
- b) Connect the USB connection cable to the USB-port of the computer
- c) Install the USB driver from the data carrier in the computer
- d) Open data file of the corresponding operating system (Windows or Macintosh OS). Move files "BronStudio" and "BronStudio.xrc" onto the desktop. Both files must always be stored at the same place so that the software is operational.
- e) Open file "BronStudio" and select the corresponding USB-port (for example COM 3).
- f) Synchronize the address of the flash unit with the "BronStudio" software. The same studio channel must be set on all used flash units (for example studio "5") and each unit must be programmed with an individual unit address (1,2,3) (see operating manual of the flash unit).



2.3 Country specific radio frequencies

Please note, that each country defines the admissible or available radio frequencies independently, based on the specific laws of this country. Therefore all RFS systems are programmed with the specific country radio frequency before being delivered. If you intend to use the RFS system in another country, you need to check before, if the radio frequency admitted in the respective country is identical.

Standard

EC-standards	73/23, 89/336 und 99/5
ERM	EN 300 220-1,-3
EMC	EN 301 489-1,-3 EN 60950 EN 50371 FCC Part 15 <i>This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:</i> <i>(1) This device may not cause harmful interference and</i> <i>(2) This device must accept any interference received, including interference that may cause undesired operation.</i> <i>Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.</i>

Subject to change in the interest of product enhancement.

CE

Printed in Switzerland 04.04

Bron Elektronik AG
CH-4123 Allschwil
Schweiz (Switzerland)