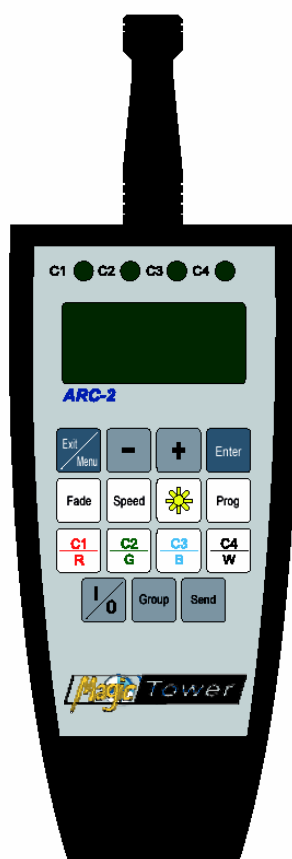


# Magic Tower

## Operating Instructions



English

Deutsch

Francaise

**Magic Remote Operating Instructions**  
**Version 1.0**  
**Issue 01/2008**  
**Typ: Magic Tower MK II Remote**

These operating instructions are part of the device and must be readily available for the operating personnel. The safety instructions contained and shall be observed. For a resale of the unit, the operating instructions always be provided.

## **Translation**

For delivery in the countries of the EEA's is the instruction manual, according to the language of the user country to translate. If, in the translated text disagreements occur, the original operating manual (German) used to help or to contact the manufacturer.

## **Copyright**

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## 1. Safety Instructions



### Regard!

Protect Device from humidity and moisture!

Before you first use, read these instructions carefully for your own safety!

All persons, who are involved in the installation, commissioning, operation, maintenance and repair of this unit must be

- qualified
- involved in these operating instruction
- examined the operating instruction as a unit of the product
- kept the operating instruction a lifetime
- pass the manual to any subsequent owner or user of the product

The following symbols are used in these operating instructions used to them on specific security information noted.



**Danger !** Security risk. Risk of significant injuries or life-threatening



**Caution !** Read the instruction manual before installing, commissioning or repair.



**Danger !** High voltage. Life-threatening. Significant risk of injury.



**Warning !** Fire danger.



**Warning !** Risk of injury to the eyes. Wear Goggles.



**Warning!** LED-product of class MK II. Avoid direct eye contact with the light beam at 40cm distance. Dont look a long time from a short distance into the beam of light. Dont use optical instruments to view the light beam.

## 1.1 Proper Use



The acquired product is a professional LED column. This serves as a stand-alone luminous object on any type of event or with the appropriate accessories, as a combination of luminous object and static elements, or as a carrier for other devices. Only the original Magic Tower Accessories must be used.

The manual and the static is in any case be observed!

This product is only available for commercial use permitted. Using the device in households is not permitted.

If the handling of the product isnt properly it will be cause substantial injury arising as a danger to life from fire, electric shocks and crashes caused by additional modules.



Read these instructions before using the product install, operate or repair.

Follow the safety instructions and observe all of this guide or on the product specified warnings. If you have questions about the safe use of this product, please contact the Editor of the Magic Tower.

## 1.2 Unpacking the Device

Please notify that the relevant packing instructions are on the product.

## 1.3 Delivery

Included with the Remote Magic is:

1x Magic Remote

2x Battery 1,5 Volt AA

## 2. Introduction

The remote control allows control of the Magic Tower II MK Promotion and facilitates the operation of all other magic devices with wireless DMX. With the remote control may have the following functions of the Towers of Magic Magic spots or be executed:

- Defining and displaying various programs and create light shows with pre-defined colors
- Definition of timing by blinding time and hold time. This allows the user to produce any effect, the soft crossfading hard to color features and the respective arbitrary speed.

To use the remote control, you need to have set the Magic Tower MK II, the menu, Input Select 'either, auto select' or, remote control

## 3. The Magic Remote Control

### 3.1 Key Pad

#### EXIT/ MENU

By pressing this button takes you to the main menu.

+ / - These selection buttons are subordinate to each function key. Here are the options selected.

#### ENTER

This button confirms an entry. Depending on the setting this key must be pressed to a change in the Magic Tower to send (Send on Enter), or the change will directly assuem (modify on Send). The keys are also shortcut keys to the main menu items from the auto settings menu to reach.

#### FADE

About the button "FADE" you set in %, as the soft gradient should be. You can turn the sensitivity control with the "+" and "-" button. At 100% you get a soft color and a tougher the farther you manage to 0%.

#### SPEED

About the button "SPEED" to adjust the speed of a program. The displayed time matches a complete run of the selected program. To regulate use also the "+" and "-" button.

*NOTE: When "SPEED" altered, the devices can be asynchronous. In order to synchronize the devices, the button "SEND" must be pressed or the program be changed.*

## BRIGHTNESS

About the button "(BRIGHTNESS) to adjust the brightness or intensity of the LEDs. This is done via the "+" and "-" button and in 10% steps down. *Please note: The factory setting is regulated at 100% brightness.*

## PROG

About the button "PROG" to control the various program operations. The button "SEND" send your selected setting to the entire user group, that means when using multiple devices to time-specific programming to be avoided.

## C1/ C2/ C3/ C4

Here the different effects can be assigned colors. By briefly pressing the buttons can be obtained from a reduced menu, select colors. If one of these buttons is pressed longer, you may choose from 240 colors of a comprehensive table, the color of the LED similar to select. This table is for better overview in the Annex.

## I/O

This allows all devices to be „Blackout“.

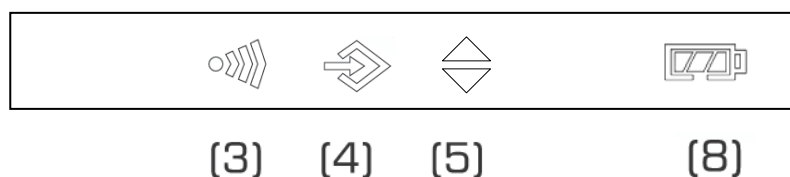
## GROUP

Here is chosen as to what equipment the group Magic Remote broadcasts

## SEND

Synchronize the device again.

## 3.2 Display



Symbol explanation:

- (3) Signal is sent (Applies only to the remote control)
- (4) Settings are stored in nonvolatile memory (which we illustrated by a brief flashing of the symbol)
- (5) Synchronization between devices
- (8) Battery indicator

## 3.3 Programs

Choose one of the programs and confirm this with the "ENTER" key. The selected program is displayed and confirmed on the display of the controlled device.

The following program processes are available:

#### ONE COLOR STATIC

Each LED tube shows the color under the key "C1" which was occupied.

#### TWO COLOR STATIC

Each LED tube shows the colors, the buttons under the "C1" and "C2" which were occupied.

#### THREE COLOR STATIC

Each LED tube shows the colors, the buttons under the "C1", "C2" and "C3" which were occupied.

#### FOUR COLOR STATIC

Each LED tube shows the colors, the buttons under the "C1", "C2", "C3" and "C4" which were occupied.

#### ONE COL FADE

Changes in the "C1-C4" defined by one after the other colors.

#### TWO COL FADE

Changes in the "C1-C4" defined colors successively

#### THREE COL FADE

Changes in the "C1-C4" defined colors successively, with Note, that the LED-tube is split, thus in 3 parts.

#### FOUR COL FADE

Changes in the "C1-C4" defined colors successively, with Note, that the LED-tube is split, thus in 4 parts.

#### SIMPLE RUNNING

The defined color, "C1" runs as a background color and the color of "C2" runs from top to bottom through.

## DOUBLE RUNNING

The defined color, "C1" is defined as the background color and the color of "C2" will run from top to bottom and coexistent from bottom to top.

## TWO COL RUNNING

The defined color, "C1" is defined as the background color and the color of "C2" will run from top to bottom and the color of "C3" runs from bottom to top.

## FLAG RUNNING

This program allows you create a flag, with more than 3 colors were defined. The color of "C1" is defined as the background color. The flag colors are therefore made the colors of "C2", "C3" and "C4" together and run from top to bottom.

## DOUBLE FLAG RUNNING

The color of "C1" is defined as the background color. The flag is thus set colors from the colors of "C2", "C3" and "C4" together and run from top to bottom rather from bottom to top. This program is recommended, when several groups formed. Thus, the flag at a group start and go in another.

## SPIRAL 4 COLORS

The colors of "C1-C4" run as type spiral from top to bottom.

## SPIRAL 2 COLORS

The colors of "C1" + "C2" are running as a kind of above and below each other.

## RAINBOW

The colors of the rainbow run through from top to bottom. the setting of the color is not possible, because this program is fixed.

## FIRE

The "C1" and "C2" defined colors automatically arranged as the algorithmic sequence, that this effect arises.

## 3.4 Color Buttons

The colors correspond to all the RGB mode. This can be found on the Keys C1 / R (red), C2 / G (Green), C3 / B (blue) and C4 / W (white).

The following colors are available:

**Red, Orange, Yellow, Green, Cyan, Blue, Magenta, Pink, White Warm, White Cold, Black.**

If these colors are not enough you can choose either from a wide range preset Colors, or enter the desired color directly as RGB values.

A larger color selection appears, if you press the appropriate color for 1 second. The colors are numbered; these numbers are similar to the colors of common color filter foil.

To set RGB Values, please proceed as explained below. The adjustment is located at: "AUTO SETTINGS" -> "USER COLORS".

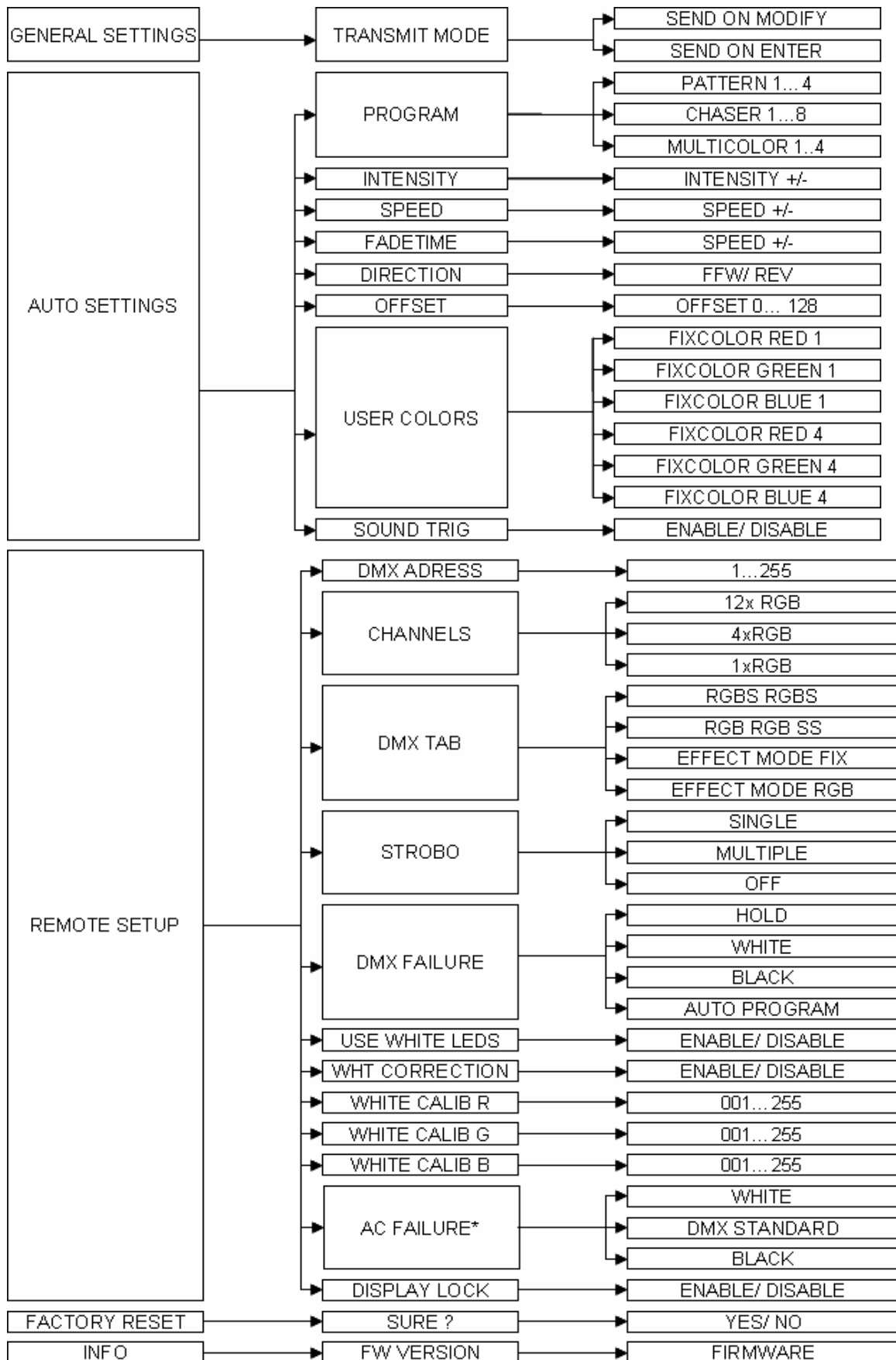
## 3.5 Group Behaviour

The Magic Tower MK II series has a built-group function. This means, that in the event of a structure with several towers and one remote, several groups are individually controllable, without influence the other group.

The group function but also offers the option, to play Tower several or (maximum 4) together . A simple example: Will the program, Simple Running 'selected and sends it to 4 Magic Tower, each with a group of 1-4 have been addressed, migrates to the color bar not only on a Tower, but in sync on all 4 Tower.

Similarly, it is with the rainbow: Assuming 2 Magic Tower Structure on top of each other, addressed to 2 groups and send the program is the rainbow at both Tower, stretched '.

## 3.6 Menu-Map



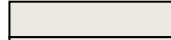



## 4. Solid Color Table

	2	Rose Pink
	3	Lavender Tint
	4	Medium Bastard Amber
	7	Pale Yellow
	8	Dark Salmon
	9	Pale Amber Gold
	10	Medium Yellow
	13	Straw Tint
	15	Deep Straw
	17	Surprise Peach
	19	Fire
	20	Medium Amber
	21	Gold Amber
	22	Dark Amber
	24	Scarlet
	25	Sunset Red
	26	Bright Red
	27	Medium Red
	29	Plasa Red
	35	Light Pink
	36	Medium Pink
	39	Pink Carnation
	46	Dark Magenta
	48	Rose Purple
	52	Light Lavender
	53	Paler Lavender
	58	Lavender
	61	Mist Blue
	63	Pale Blue
	68	Sky Blue
	71	Tokyo Blue
	75	Evening Blue
	79	Just Blue
	85	Deeper Blue
	88	Lime Green
	89	Moss Green
	90	Dark Yellow Green
	100	Spring Yellow
	101	Yellow
	102	Light Amber
	103	Straw
	104	Deep Amber
	105	Orange
	106	Primary Red

Farbbeispiel	DMX Adresse	Bezeichnung
	107	Light Rose
	108	English Rose
	109	Light Salmon
	110	Middle Rose
	111	Dark Pink
	113	Magenta
	115	Peacock Blue
	116	Medium Blue-Green
	117	Steel Blue
	118	Light Blue
	119	Dark Blue
	120	Deep Blue
	121	Lee Green
	122	Fern Green
	124	Dark Green
	126	Mauve
	127	Smokey Pink
	128	Bright Pink
	130	Clear
	131	Marine Blue
	132	Medium Blue
	134	Golden Amber
	135	Deep Golden Amber
	136	Pale Lavender
	137	Special Lavender
	138	Pale Green
	139	Primary Green
	140	Summer Blue
	141	Bright Blue
	142	Pale Violet
	143	Pale Navy Blue
	144	No Colour Blue
	147	Apricot
	148	Bright Rose
	151	Gold Tint
	152	Pale Gold
	153	Pale Salmon
	154	Pale Rose
	156	Chocolate
	157	Pink
	158	Deep Orange
	159	No Colour Straw
	161	Slate Blue
	162	Bastard Amber

Farbeispiel	DMX Adresse	Bezeichnung
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	164	Flame Red
	165	Daylight Blue
	166	Pale Red
	169	Lilac Tint
	170	Deep Lavender
	172	Lagoon Blue
	174	Dark Steel Blue
	176	Loving Amber
	179	Chrome Orange
	180	Dark Lavender
	181	Congo Blue
	182	Light Red
	183	Moonlight Blue
	192	Flesh Pink
	193	Rosy Amber
	194	Surprise Pink
	195	Zenith Blue
	196	True Blue
	197	Alice Blue
	198	Palace Blue
	200	Double C.T.Blue
	201	Full C.T.Blue
	202	Half C.T.Blue
	203	Qtr C.T.Blue
	204	Full C.T.Orange
	205	Half C.T.Orange
	206	Qtr C.T.Orange
	207	Full C.T.Orange + .3ND
	208	Full C.T.Orange + .6ND
	212	L.C.T.Yellow
	213	White Flame Green
	218	Eighth C.T.Blue
	219	Fluorescent Green
	223	Eighth C.T.O.
	226	Lee U.V.
	230	Super Corr.L.C.T.Yellow
	232	S.Cor WF.Grn to Tungsten
	236	H.M.I. (to Tungsten)
	237	C.I.D. (to Tungsten)
	238	C.S.I. (to Tungsten)
	241	Lee Fluorescent 5700K
	242	Lee Fluorescent 4300K
	243	Lee Fluorescent 3600K
	244	Plus Green

	245	Half Plus Green
	246	Quarter Plus Green
	247	Lee Minus Green
	248	Half Minus Green

## 5. Technical Data

Housing

Weight: 150g  
Overall height: 21cm  
Overall Width: 9cm

Power Supply: 2x Battery 1,5 Volt, AA

Radio module

Channels: 5  
Frequencies: 868,23 Mhz; 868,458 Mhz; 868,839 Mhz;  
869,068 Mhz; 869,525 MHz

Channel Occupancy: LBT+ AFA

Transmitting : +14dBm

Other : Integrierte Fehlerkorrektur

Range : 2- 500 Meter\*

Min ambient temperature: 5°C

Max ambient temperature: 40°C

\* The range may be due to building conditions or similar vary.

## 7. Warranty

The warranty for this device is 2 years. It includes the free remedy of the deficiencies, detectable on the use of proper material or manufacturing defects are due.

The warranty is void:

- to change and repair attempts on the device;
- arbitrary changes in the circuit;
- Damage caused by interference of third persons;
- Damage caused by failure to comply with the manual and the port plan;
- Following an incorrect voltage or current;
- Misuse or damage caused by negligent treatment or abuse.

## 8. Declaration of Conformity

The unit is microprocessor controlled and uses high-frequency (16 MHz Quartz). The unit was examined in our laboratory according to EN55022B and IEC65/144. Thus the properties of the device in relation to the CE (wirebound and guided field noise emissions), it's necessary, that the connection is always properly screened cables (preferably AES-EBU cable or CAT5 network cable, shielded) are used and the shielding is connected correctly.



The device is like RoHS Lead-free.

### Risk Notice

You have acquired a technical article. According to the state of the art, the following risks can not be excluded:

**Default:** The device can fail, at any time without warning, partially or completely. Reduced failure probabilities are building redundant system available.

**Commissioning risk:** The mounting board should be in accordance with the product documentation to third party systems can be connected and configured. This work may only be carried out by experienced professionals, which the documentation has read and understood.

**Operational risk:** Changes or special operating conditions of the connected systems, as well as hidden deficiencies of our own devices, may also be within the operating time for faults or failures lead.

**Risk of abuse:** Everyone is not the intended use can cause incalculable risks and is therefore prohibited. The use of the devices in applications where the safety of people from their function depends, is prohibited.