

## PRODUCT INFORMATION

Product:

Serial Number:

MAC:

The set includes as follows:

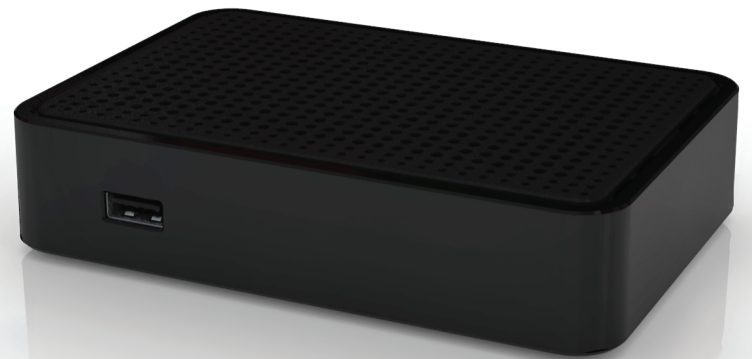
IPTV Set-Top-Box	-1 pc.
External Power Supply Unit	-1 pc.
IR Remote Control	-1 pc.
AA batteries	-2 pc.
Instruction manual	-1 pc.
Package box	-1 pc.

Optionally the set may include as follows:

3RCA to 3,5 mm jack cable	-1 pc.
LAN network cable	-1 pc.
HDMI to HDMI cable	-1 pc.

QC representative

# HIGH DEFINITION IPTV SET-TOP-BOX INSTRUCTION MANUAL



**MAG 250**  
IPTV SetTopBox

## WARRANTY SERVICE COUPON

**Dear customer!** Thank you for purchasing this product and we hope you like it.

### Your warranty

By virtue of the present Coupon the absence of defects in manufacturing of the product and its compounds is warranted for a year-term counted since date of purchase.

If during the mentioned warranty term the defects of materials or operation of product will be found, the product would be repaired or its defective parts would be replaced free of charge in the service center according to the following conditions.

### Conditions

- The present warranty is only valid if the defective product is provided with properly filled in Warranty Service Coupon. If date of purchase is not pointed, the warranty term is counted since date of the product manufacturing which is defined under serial number. Service center reserves the right to refuse free warranty service and parts replacement

in case the mentioned above documents are not presented or the filled in it information is not complete or unreadable.

2. The present warranty does not enable the right for compensation and cover of loss received as a result of rearrangement of the product.

3. The present guarantee is invalid if model or serial number of the product is altered, erased, removed or unreadable.

4. The present warranty does not cover the following:

- any adaptations and alterations with the aim of perfection and widening of the common scope of the product application specified in the Manual.
- devices not specified in the coupon.
- damage caused in result of:
  - improper maintenance including but not limited by following:

- use of the product not according to its intended purpose or Manual,

(2) mounting and maintenance of the product in conditions not corresponding to safety standards and regulations valid in the country of use

(3) incorrect software installation (provides by service operator)

b) repair performed by not authorized service centers or dealers;

c) accidents, lightning stroke, flood, fire, incorrect ventilation;

d) transporting excluding cases when it is carried out by ASC.

e) faults of system in which the present product had been using.

5. The present warranty does not encroach on legitimate rights of the customer enabled to him by the existing legislation and rights of the customer related to the dealer which may appear from the purchase-sale agreement had been concluded by them.

### Warranty Service Coupon (to be filled in by a shop-assistant)

Date of Purchase: \_\_\_\_\_

Company-Seller: \_\_\_\_\_

Address of Company-Seller: \_\_\_\_\_

I have no claims as to appearance and package contents. I accept the conditions of warranty service.

Signature of Customer: \_\_\_\_\_

Place of Stamp of Company-Seller

MANUFACTURER: "Telecommunication Technologies" Ltd, 1-A Tamozhennaya Square Odessa 65026 Ukraine

## SPECIFICATIONS

### Physical Parameters

**Model MAG250 Micro**  
Weight: 190gr.  
Dimensions (approximately):  
87 mm depth,  
127 mm width,  
30 mm height

Operation temperature:  
33°F - 104°F (1°C -40°C)  
Humidity: 5% ~ 93% RH  
(without condensate)

### Ethernet Interface

Ethernet Connector: RJ-45 shielded  
Cable: UTP and STP 5 categories  
Speed: Auto-choice 10/100 Mbit/sec  
Indicators: Green - Connection,  
Yellow - Activity

### USB Interface

Type: USB 2.0  
Quantity: 2

### Analog Audio

Audio connectors: TRRS, (On adapter cable:  
White=Left channel,  
Red=Right channel)  
Output: 2 V RMS nominal  
Loading: 10 KΩ

### Decoding of transport stream

MPEG MPEG-2 ISO/IEC 13818  
**Specification of transport stream**

Video Decoder: MPEG-4p10/H.264  
MPEG-4 p2 MPEG-2  
VC-1 (optional)

Aspect: 4:3, 16:9  
Video resolution: HD (1080i or 720p),  
NTSC (720x480i),  
PAL (720x576i)

Graphics resolution:  
1920 x 1080,  
1280 x 720 for HD,  
720x480 for NTSC and  
720x576 for PAL,  
ARGB 32-bit, Alpha blending

Audio Decoder: Dolby Digital (AC-3),  
MPG-1 layers I & II,  
MPEG-1/2 layers III  
(mp3) optional,  
LC AAC, HE AAC,  
HE AAC v2 - optional,  
16-bit PCM

### Power Supply Interface

Connector: DC cylindrical  
2.5mm x 5.5mm  
plug-and-socket,  
current, center plus  
Type:  
Input: 5V ± 10%  
Power: Less than 7.5 W  
in typical conditions

### Video Cables

**Composite Video Interface**  
Type: TRRS (Yellow connector on  
adapter cable)  
Output: 1Vp-p

### Outer Power Supply Unit

Type: Pulse with universal inlet  
Input: 110~240 V AC,  
50~60 Hz, 0.2 A max  
Output: 5 V DC, 3 A

### Package

Type: cardboard box  
Dimensions (approx.):  
57 mm height,  
220 mm width,  
157 mm depth

Shipping Weight:  
580 gr.

## USAGE INSTRUCTION

### Thanks you for choosing our "IPTV Set-Top-Box"

Follow the instructions of the present Manual to immerse yourself in the world of digital television.

Please read carefully the present manual before using the product.

Please keep the present manual at hand for referring to it in your further actions.

Your services provider should supply you the separate manual containing the information, how to access to the services that are provided by service provider of the digital television.

### Safe Using

**Warning, Attention**  
Please pay your attention to footnotes with symbols that warn about the potential dangerous situations, such as



**Warning!**  
Such symbol points to the dangerous actions which may cause injure the user.



**Attention!**  
Points the situations described in the present instruction which may cause danger to the arrangement or to other equipment.

Pictograms: **Warning** and **Attention** are included into present User's Manual to ensure your safety and the product proper maintenance. Please follow the very instructions.

**Enclosures**  
Use the accessories supplied with your arrangement or recommended by the manufacturer only.

Using of the accessories which are not supplied or not sanctioned by the manufacturer may be dangerous for the User or do harm to the arrangement operation.

Using of the not appropriate accessories eliminates guarantees of the product therewith.

**Water and Moisture**  
To avoid damage which can cause ignition of the present product or lesion to the User with electrical current, the product and its accessories should not be undergone with any liquids, rain or high moisture.

Don't use the present product in the places where it may be exposed to the contact with a liquid or vapour.

### Maintenance of Product

**Service**  
The product should not be disassembled. The tries of the disassembling of the product may be dangerous for your life and for serviceability of the product. The self-supporting disassembling invalidates you the product guarantee.

The maintenance should be effected by qualified specialists in service centers only. The product possesses protective sealings. Breaking or changing of the mentioned sealings invalidates guarantee of the product.

**Cleaning**  
The product and accessories should be rubbed with dry cloth or tissue only. To ensure safety, before shell cleaning switch the power supply off the alternative current socket.

The shell may be cleaned from persistent spots with a slightly wet cloth or cleaning tissue.

Don't use cleaner or polish, benzol, solvents, abrasive items, liquid or aerosol detergent means for the product and accessories cleaning.

## SERVICE CENTERS

### Service Centers List:

**Northern & Southern America:**  
Infomir USA, Inc  
15 Surfway S., Calverton, NY 11933  
e-mail: sales@infomirusa.com  
www.infomirusa.com

### Russia:

"PROMZAKAZ" LTD  
1 Block 18, 5th entrance, of. 9, Skladochynaya Str, Moscow 127018  
www.promzakaz.com  
e-mail: info@promzakaz.com

### Other countries:

"Telecommunication Technologies" Ltd  
1-A Tamozhennaya Sq. Odessa 65026 Ukraine

### Additional Information:

Additional and extended information as to service centers you can see by reference:  
<http://iptv.infomir.com.ua/en/support/>

General information as to the attachment you can receive by reference:  
<http://iptv.infomir.com.ua/>

Updated software is accessible by the following references:

<http://mag.infomir.com.ua/250/imageupdate>

Description of the inner portal is accessible by reference:

[http://mag.infomir.com.ua/User\\_Guide.pdf](http://mag.infomir.com.ua/User_Guide.pdf)

## COPYRIGHTS AND TRADEMARKS

### License for Software

#### Software Use Agreement

**IMPORTANT** – read carefully: when using the Software with your device, you agree thereby with every clauses of the Software Use Agreement. If you do not agree with the terms and conditions of the Software Use Agreement, you should immediately stop using the device and return it to your services provider completely.

**License provision; limitations**  
According to this Agreement, Telecommunication Technologies, Ltd and your services provider are jointly to provide you with non-exclusive and non-transferable license, without the right to sublicense, for use of all software and documents with the product only. You recognize and acknowledge that Telecommunication Technologies and your services' provider may regularly renew, change or extend the product software abilities. You confirm that:

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- You will not take attempts to delete or upload the product software. Any sale or transfer of the product will be ruled hereby.

#### Ownership

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#### Expiration

This Agreement and licenses provided hereafter should be cancelled immediately, if you are unable to meet the license restrictions, as specified herein. The Company may cancel such agreement without prior notice.

After expiration of validity hereof, you should return all the Software, documents and accessories to the services supplier.

### Miscellaneous

This Agreement is governed by the Law of Ukraine, regardless of its principles and conflicts. You agree thereby all disputes arising out of this Agreement will be subject to exclusive jurisdiction and be considered in State Courts in Ukraine, and you agree thereby for personal and exclusive jurisdiction and consideration of cases by those Courts. If any of terms or conditions hereof proves to be invalid by any applicable article or legal norms, it is deemed invalid. Any breach or default in payment, or any delay in implementation of any right will not be reason for further breach or default in payment. This Agreement is entire and exclusive agreement by and between you and the Company and prevails over any and all previous, whether oral or written, agreements and arrangements. This Agreement is subject to change in writing only by duly authorized representative of the Company.

### Notice of Copyright

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Any illegal use of the materials contained herein, by any person, will lead the person to the responsibility for the Company's damages.

#### Legal Clause

The Company will not bear any responsibility for any errors/mistakes, contained herein, neither any loss nor damage resulting from or related to this or the information contained herein, even if the Company has been notified of such loss or damage probability.

This document is intended for acquaintance with and training only. The Company reserves the right for changing specifications and other information contained herein, without prior notice.

#### Warranty

Warranty for your product is supplied via your services' provider. In the event your product requires maintenance service, you should contact the services' supplier directly.

### Trademarks

Інфомір, Infomir are the trademarks of Infomir Ltd.

Dolby and double-D symbol is the trademark of Dolby Laboratories.

Made under authority of Dolby Laboratories.

HDMI is the trademark of HDMI Licensing, LLC

Secure Media is the trademark of Secure Media Natick, MA.

Verimatrix is the trademark of Verimatrix, Inc. Macrovision is a USA patent no. 4,631,603, 4,577,216 and 4,819,098 licensed for users under the system paid – seen.

The product includes the copyright protection technology, protected by American patents and other intellectual property rights.

The use of the protection technology should be authorized by the Macrovision Company and used for domestic use or use in the system paid-seen, unless otherwise allowed by the Macrovision Company. Redesigning and disassembling is illegal.

#### Approvals

**FCC registration and requirements**  
The following paragraphs specify requirements and information based on the Federal Communication Committee Rules

**Federal Communication Committee Rules, Part 15**  
The device has been tested and proved corresponding to the Class B digital hardware parameters, according to Part 15 of the Federal Communication Committee Rules. The Rules have been developed to reduce the harmful affect to

living environment. The equipment generates, uses and may emit radio-frequency energy, if is not installed neither used in accordance with the manual that causes radio interference. However, in specific installation, no guarantee exists the radio interference fail to appear. To correct the interference, the following should be given a try:

- To increase distance between the equipment and receiver.
- To connect the equipment in other way
- To take reference from dealer or skilled tele-radio technician.

The device corresponds to Federal Communication Committee Rules, Part 15, and is governed by the following two conditions:

- The device should not cause harmful affect
- The device should accept any interference in, including the one able to cause unwanted operation.

Company name: Telecommunication Technologies Ltd  
1a, Tamozhennaya Sq., Odessa 65026, Ukraine

#### Safety

**The Product:**  
MAG250 Micro IPTV Set-Top Box

**Power supply:**  
DC 5 V, 1.5A, Class III

**Standards:**  
IEC 60065:2001 CAN/CSA-C22.2 No. 60065-03 UL 6500

EEC 72/23/EEC и 89/336/EEC.  
**Directive WEEE (2002/96/EC)**

The Product is in accordance with the Directive WEEE.



## ABOUT YOUR MAG250 MICRO

### About your MAG250 Micro

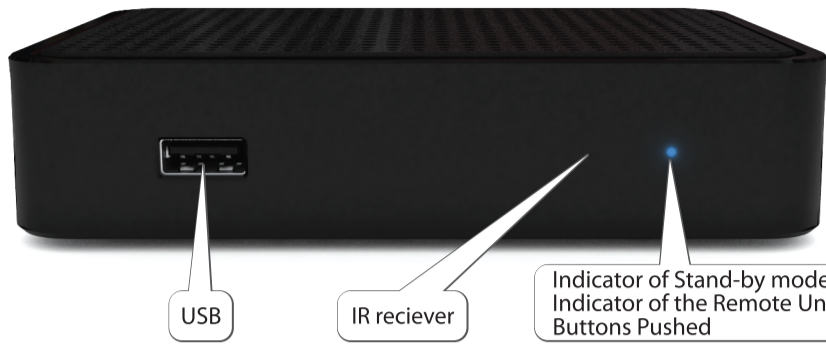
Thank you for purchasing of our product MAG250 Micro, which makes it possible to possess access to TV and movies through your digital television service.

You can control all functions of MAG250 Micro by using remote control for navigating on screen menu provided by your service provider.

### Getting Started

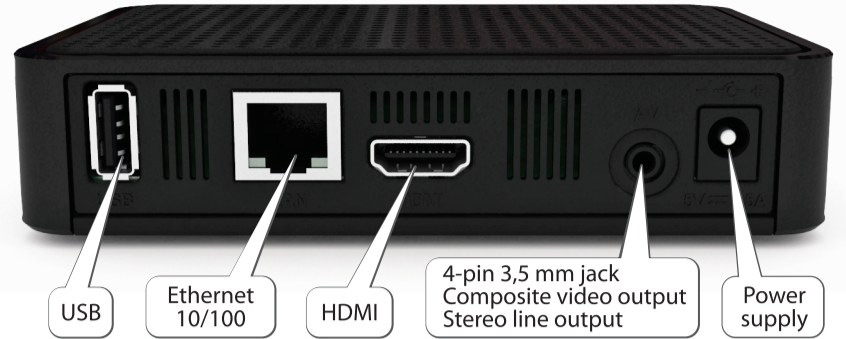
Please become acquainted in the next chapter how unpack and turn on power supply your MAG250 Micro.

In case of your product had been already adjusted for you by your provider look into "Use of Remote Control to control the device" for information how to use the product.



## BACK PANEL MAG250 MICRO

### Connecting on the Back Panel



### Digital TV Connecting to the Network

MAG250 Micro receives TV channels and movies from the "digital TV" network.

Your services provider had been already installed the connection with the mentioned network.

- Connect cable for "digital TV" network into "digital TV"/Ethernet port on your product.

## UNPACKING AND INSTALLATION THE PRODUCT

After the product extraction out of the package it is necessary to handle it with care, do not drop, shake it and afford other influence.

The product is designed for horizontal allocation onto flat surface. Do not place the product onto slippery surface, in place where it may be exposed to vibration or hazard to drop and other possible risks to the product to be damaged which may cause invalidation the product guarantee.

Do not dispose the product onto soft surface like on the carpet, bed, etc., for such surfaces cease access to the ventilation openings and complicate air flow that may cause to the product overheating and to invalidate guarantee in result.

Do not locate the product into the furniture in case of vacant clearance around the product is not provided for the sufficient product ventilation.

Do not place the product in place where it may be exposed to influence of direct sunlight, next to the sources of open fire and converters.

Do not dispose the product on surfaces which in operating process may get warm, for instance, video record player or intensifier and do not put anything on the top of the shell as well.

Do not cover the product with anything. Containing liquids objects, such as vase, plant pot are not to be placed next to or on the product.

Do not touch or move the product during its operation. Switch off the product if you need to shift it.

The product is intended for use indoors. The power supply cord is to be put to prevent its deformation and jamming and touching it

with other objects as well. The power supply cord is not to be laid under the carpets or blocked with anything where any damage may not be noticed.

**Power supply unit**  
The product should be used with power supply unit provided by the manufacturer only.

The power supply unit is fitted out with plug which is intended for connecting to socket in your country usage. In case of the necessity in the product connecting in other country or in the region with other data of electric circuit the power supply unit adopted for use in the specified area should be received from the manufacturer.

**Operation**  
The outer power supply unit of the product is getting warm in operation. In case of outer power supply unit gets hot, switch off promptly and get in touch with the equipment supplier for its replacement.

**Protection from atmospheric electricity or not using for a long time.**  
On coming the thunderstorm and also in case of the product is intended to be in no use for a long time, disconnect the power supply cord out of socket, switch off Ethernet, video and audio cables.

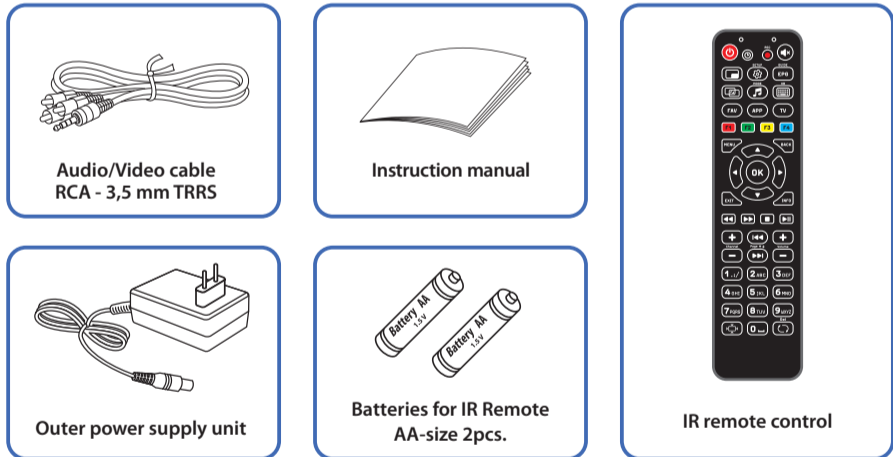
**Usage with Plasma Displays**  
In the product usage for watching with plasma screens do not pause the picture more than 5 minutes, otherwise it may cause "burn-out" pixels on the screen. It is not considered as a defect of the product but peculiarity of plasma screens structure. The producer does not bear the responsibility for damages had been caused in such manner.

**The Arrangement Designation**  
The product is designed to receive and record TV pictures and sound signals. Any other use is prohibited.

**Updating Software**  
The product possesses the capability of automatic software updating. The manufacturer and your services provider reserve the right for automatic software updating to improve the product functional capability.

During the software updating the product should not be used for watching and switched off until the complete software updating. During the software updating the product switching off is inadmissible. The updating takes several minutes and since then you are able to continue enjoy on all delights of digital television services.

The product and accessories are packed into recycled package and plastic bags. Please keep all the packing materials for the further transportation. MAG250 Micro is delivered with the following accessories:

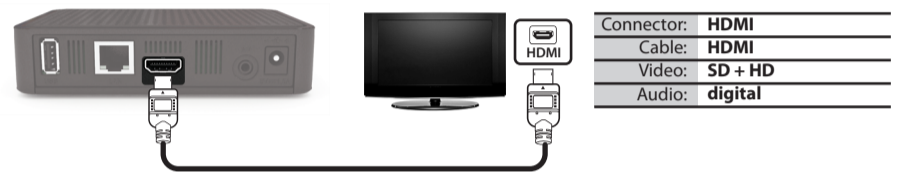


In case of absence of any of the specified accessories please refer to your services provider.

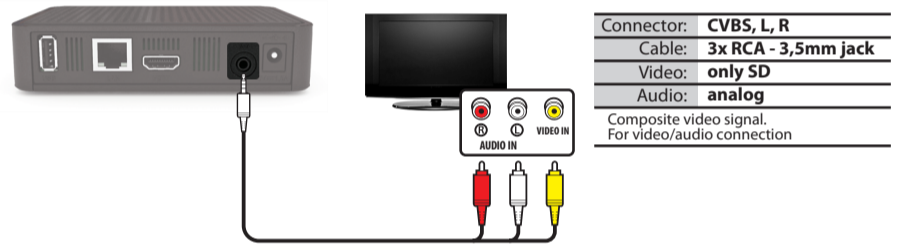
## CONNECTING TO MAG250 MICRO

The typical product connecting to TV and audio intensifier is shown on the presented diagram:

### CONNECTING TO TV-SET WITH HDMI CONNECTOR - BEST QUALITY



### CONNECTING TO TV-SET (AUDIO/VIDEO INPUT) - GOOD QUALITY



**Warning!** Switch off all arrangements (TV, intensifier, etc.) and take power supply out of socket before connecting and any cables disconnecting. In case of the intensifier does not connected leave digital audio outlets of your product not connected.

### Video Connecting

The product allows connecting the following video cables:

- HDMI – provides the best quality of picture and allows playing of digital video of high definition (HD).
- Composite (CVBS) - enables standard picture quality.

Use the connection with the best quality which could be applied with your equipment.

- In case of your TV has HDMI inlet, use HDMI cable for the product connecting to TV through HDMI outlets.
- In case of your TV is capable to operate with connection through component video inlet, use component video cable for the product connecting to TV through component video outlets.

**Attention!** In all cases follow coloration of connectors and sockets on your equipment.

### Audio Connecting

The product allows to conduct the following connections:

- Left and right channels for playing stereo sound through (L and R outlets).

**Attention!** After the product unpacking please wait up until the arrangement warms up to indoor temperature to avoid condensation which may cause short circuit.

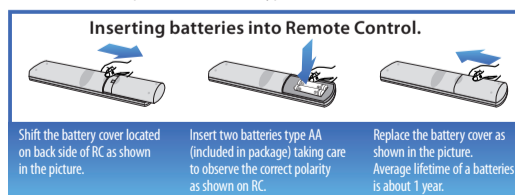
## USING REMOTE CONTROL TO CONTROL THE DEVICE

This section explains how to unpack Remote Control (RC) and prepare it for work.

Your service provider can supply the product with an alternative RC. In that case please refer to the manual supplied by your service provider.

### Inserting batteries

Remote Control requires two batteries type AA, R6, LR6, UM-3, 316, A316.



### Important information about using batteries

Do not mix different types of battery or old and new batteries. Do not use rechargeable batteries with the remote control.

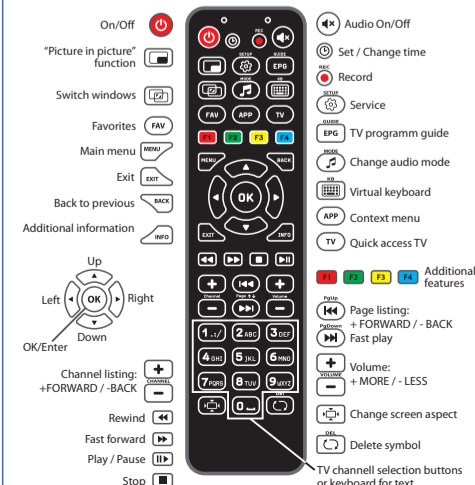
Remove the batteries from the remote control if you are not going to use it for several weeks, to avoid the risk of leakage.

Please respect your environment and any local regulations and dispose of old batteries in a responsible manner.

**Caution!** Do not attempt to recharge the batteries. Immediately remove any leaking batteries. Take care when handling leaking batteries as they may cause burns to the skin or eyes, or other physical injuries.

Your supplier optionally can provide the product with an alternative RC.

### Remote Control



### Remote Control with additional programmable section.

For convenience this RCU has additional section of programmable buttons. You can program these buttons, for example, to control your TV. RC has two LED lights to indicate of button presses and operational modes. The green indicator lights when any button pressed on the base RC section. Red indicator is used to program buttons from additional section.

#### Programming the RC:

To program button from additional section please do as follows:

- Press "SET" button and hold it for about 2 seconds. When red indicator becomes brighter the RC is ready to program.
- Press the button you want to program. Red indicator starts blinking.
- Dispose emitters of two RC opposite each other at a distance 10 mm and press the button on the other RC to be used as a source for programming and hold it for 2 seconds.
- After three quick blinks red indicator will stop blinking. Now you can program next button.
- Please program all buttons you needed as described above.
- Press "SET" button to save all programming progress.

