

Easy Icon 10 RF™

Universal IR/RF remote with X-10 functionality



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Easy Icon 10 RF™

The most user-friendly remote control ever.

SAFETY WARNINGS

- To prevent short circuits, this product should only be used inside and only in dry spaces. Do not expose the components to rain or moisture. Do not use the product close to a bath, swimming pool etc.
- Do not expose the components of your systems to extremely high temperatures or bright light sources.
- In case of improper usage or if you have altered and repaired the product yourself, all guarantees expire. Marmitek does not accept responsibility in the case of improper usage of the product or when the product is used for purposes other than specified. Marmitek does not accept responsibility for additional damage other than covered by the legal product responsibility.
- This product is not a toy. Keep out of reach of children.
- Do not open the product (battery panel excepted): The product should only be repaired or serviced by a qualified expert.
- Keep batteries out of the reach of children. Dispose of batteries as chemical waste. Never use old and new batteries or different types of batteries together. Remove the batteries when you are not using the system for a longer period of time. Check the polarity (+/-) of the batteries when inserting them in the product. Wrong positioning can cause an explosion.
- Automatic switching devices provide comfort, but can also be dangerous. They can surprise people or can ignite clothing hanging over an electric heat source. Please be careful and take appropriate measures to avoid accidents.

HOW DOES MARMITEK X-10 WORK?

Marmitek X-10 components use the existing mains wiring to communicate (using Marmitek X-10 signals). You can build a complete system using the three different kind of components of the Marmitek X-10 System:

- 1. Modules:** These components will receive Marmitek X-10 signals and will switch or dim the attached lamp or appliance. Examples of these modules are lamp modules and appliance modules. These are available as build-in, micro, DIN rail and plug-in modules.
- 2. Controllers:** These components will transmit Marmitek X-10 signals and thus will control the Modules.
- 3. Transmitters:** Wireless components like remotes. The signals of these components will be received by a controller with transceiver functionality (IRRF 7243, TM13 or CM15Pro). The Transceiver will translate the signals into Marmitek X-10 signals on the power line.

ADDRESSES

Up to a maximum of 256 different addresses can be preset. These are subdivided into a so-called HouseCode (A to P incl.) and a UnitCode (1 to 16 incl.). The HouseCode can also be set on the controllers, so that the controllers and modules become part of the same system. The address can be set either using code dials or by pressing buttons, depending on the type of module.

The Marmitek X-10 System uses standard commands, which control all units with the same HouseCode at the same time (e.g. all lights on, all off, etc.).

SIGNAL RANGE

Range of Marmitek X-10 signals over the Power Line and how to increase the range.

The Marmitek X-10 System is based on power line communication. The range of the Marmitek X-10 signals very much depends on the local circumstances. On average the range is a cable length of 80 meters.

If you have difficulties with the range of your Marmitek X-10 signals, please pay attention to the following facts:

1. When more than one phase is used for your electrical system, it is necessary to couple these phases for the Marmitek X-10 signals. For coupling you can use FD10 Phase Couplers/Filters. You only need to install a Phase Coupler/Filter when your wall outlets and light switches are divided over more than one phase (more than one group is no problem). For bigger buildings or longer distances we advice you to use an active repeater instead of passive FD10's.
2. It is possible that Marmitek X-10 signals are attenuated by devices and lights which

are connected to the power line. In a normal home situation this effect is negligible (the Marmitek X-10 system is using active gain control to eliminate the effects). However, it is possible that a particular device in your house is attenuating the signals so much that the range of Marmitek X-10 signals is decreased significantly. When you have range problems, it is wise to try to locate the device which is attenuating the signals simply by unplugging devices from the power line, and testing the differences in range for your Marmitek system. When e.g. your conclusion is that e.g. your computer monitor is attenuating the signal, you can use a FM10 Plug-in Filter between the power line and the monitor to eliminate the effects.

Known devices which can cause attenuation are:

PC Monitors

PCs with heavy internal power supplies

Old Televisions

Copiers

Fluorescent Lights

Gas Discharge Lamps (Energy Saving Lamps)

3. Some (old) devices are able to disturb the signal by transmitting noise on the power line. Because the Marmitek X-10 signals are transmitted on 120 kHz, only noise on or near this frequency will have influence on the range. When you use a FM10 Filter to connect this device to the power line, the noise will be filtered.

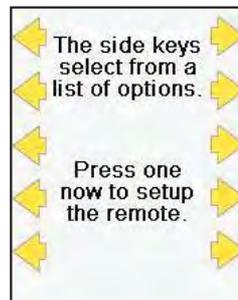
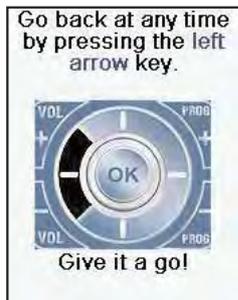
4. The Marmitek X-10 protocol has several mechanism to avoid modules to be switched on or off by other sources than your Marmitek X-10 Controllers. However, it is possible that the Marmitek X-10 signals are disturbed by e.g. baby phones which are in TALK mode (continuous transmission). When these kind of signals are present on the power line it is possible that the Marmitek X-10 signals will not come through.

5. The mains do not stop at the front door of your home. Everything that is attached to mains nearby your home can have influence on Marmitek X-10 signals (e.g. heavy machinery). If you think that your system is influenced by devices out of your house, it is advisable to install FD10 Phase Coupler/Filter on each phase entering the house. These filters will block signals coming into or going out of your house, but will also match the impedance for the mains. Hereby make your house Marmitek X-10 compatible for these units. The FD10's will not only filter but will also couple the phases (please see 1).

INSTRUCTIONS FOR USE

USING THE WIZARD

After you insert the batteries and choose “English,” the Setup Wizard screen appears. You can exit the Wizard at any time by pressing the HOME key (located just below the screen). Follow the instructions on the Wizard screens to familiarize yourself with the OK, Back, and Side Keys.



You can go back and forth through the Wizard, but once you’ve set up your devices and quit to save the settings, you won’t see the Wizard again unless you do a Master Reset.

To do a Master Reset: Press the **HOME** key, **Setup**, **More**, **Advanced**, **Clear Settings**, **More**, and then **Master Clear**. Note this will erase everything you have set up in the remote.

SETTING UP YOUR DEVICE

After you’ve been through the Wizard for the first time, the screen shown to the right appears. This is the start of the Wizard for setting up your devices (TV being the first one).

If you know your brand of TV, select **Yes**, which results in a faster search for your TV’s code. Selecting **No** searches the complete library of TV codes, rather than just the codes for your brand of TV.

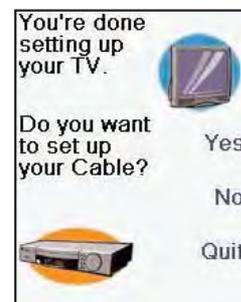
Pressing the Side Key for **Yes** takes you to the screen that shows the most common brands. Use the Side Keys to select your brand of device. If your brand isn’t shown, you can press the Side Key adjacent to Next to show more brands, (shown alphabetically); or press the Side Key adjacent to **Back** to go back to the previous screen of brands.

After you select your brand, the **next** screen tells you to point the remote at your TV and keep pressing **Power** until it responds.



Pressing Power sends the Power code to your TV, and the screen shows that you’ve sent code 1 of xx (xx will vary by brand). Keep pressing **Power** until your TV responds and then press **Save**. (You can press the Side Key adjacent to **Last Code** if you overshoot).

Pressing **Save** shows a screen that instructs you to try a few other keys on the remote to make sure you've found the correct code. Tip: try keys like **Menu**, and **Guide**. Power might work, but you still might not have the correct code. If several keys seem to work fine, press **Save Code**. If some keys don't work, select **Change Code** (or press **Back**) to go back and find another code that works better. Pressing Save Code again takes you to screen where you set up a Cable box.



You can quit at this point and set up other devices later, or you can continue and set up other devices - SAT, DVR, DVD, VCR, Audio, CD Player, or either of the 2 AUX devices. Let's assume in this case that you set up a TV, Cable, and SAT. (Descriptions on how to set up

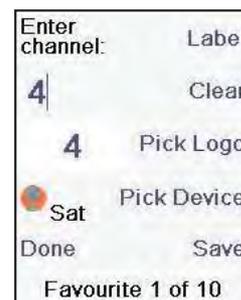
Marmitek X-10 devices are shown on the following pages.)

SETTING FAVOURITES

Once you've gone through the Wizard and set up at least a TV, and set up more devices, or skipped the rest of them, you arrive at screen shown to the right.



When you press any digit key, say digit 4, to enter a channel number, you go to a screen where you can enter more digits if desired. The channel number can include a dash (-) for digital channels, e.g., 2-3, or can include ENTER, or OK, if your device requires it to change channels, e.g. 472 OK



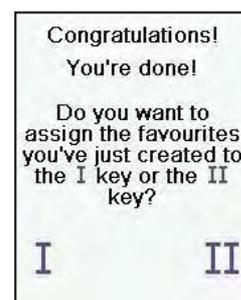
Press the Side Key adjacent to "**Pick Logo.**" You are shown a screen of popular channel logos. You can select **Next** or **Back** to see more logos.



In this example, let's select the CNBC logo. The screen now shows that we've chosen channel 4 and the CNBC logo. Then let's select **Pick Device**, and choose **Cable** (if you've set one up).

Select **Save** to save the setting for this Favourite. Set Favourite **2 of 10** is now displayed at the bottom of the screen to indicate that you can add another Favourite channel. Again just press a **channel number key** on the remote, choose a logo and change the Device Type (if you want to).

Add a few more Favourites. You can always Delete, or Edit them later, or even reorder their positions. Select **Done** when you're finished setting up Favourites. (You can set up more later.)



The next screen lets you choose, where to store the

Favourites that you just set up, either in  group or  group.

Selecting  takes you to a screen showing that you now have CNBC set as the first Favourite in  Group, as well as any other Favourites that you've set up.

When you're finished setting up Favourites, press the **HOME** button to go back to the Home screen.



WORKING WITH FAVOURITES

At any time, you can press the **FAVOURITES** key and select either the  or  Side Keys; or, you can press the  or  buttons on the remote to go to your Favourites screen. Then, pressing the Side Key next to the CNBC logo will (for example) change the channel on your Cable box to CNBC (in this example, channel 4).

Pressing either  or  button a *second time* accesses the Marmitek X-10 Home Automation modules that you've set up in **All Rooms**. (See All Rooms image.)

The All Rooms function will display all the Marmitek X-10 icons from every room you've set up. However, they are displayed in one convenient screen for you to select from.



Use the Side Keys or the *Navigation Buttons* to select the icon you want to operate.

DELETING FAVOURITES

To delete any Marmitek X-10 Single Device:

Select **Home/Setup/X10/Delete/The Room you want to delete** from/press Side Key next to the **icon** you want to delete/Press **OK**/Select **Yes**.

To delete a Favourite Channel Icon (TV station):Home/Setup/Favourites/Delete/Favourite Category/press Side Key next to Favourite Icon you want to delete/Press OK/Select Yes.

To Clear an Entire Category of Channel Favourites:

Home/Setup/More/Advanced/Clear Settings/Favourites/Favourite Category you want to clear/ Press Clear key.

To Clear an Entire Room of X10 Favourites:

Home/Setup/More/Advanced/Clear Settings/More/Clear X10/Room Category you want to clear (Living Room, Kitchen, etc)/Press Clear key.

Also, if the default names are not in accordance with what you want, please note that

you can easily change these names by selecting Home/Setup/Favourites/Rename or Home/Setup/X10/More Rename.

LEARNING

For the EasyIcon10RF to learn from another remote, do the following:

- Place the 2 remotes on a flat surface (table).
- Ensure that the transmitter end from the original remote is 40 mm or so away from the receiving end (bottom) of the EasyIcon10RF.
- Press the key/button on the original remote that you want to learn from for about a second and release it (press and release).
- Do not press and hold it for an extended period of time.

You can learn commands from an existing remote and store them under the "Main" Keys on the EasyIcon10RF, or learn commands from an existing remote and store them under any of the 10 Side Keys.

At the **HOME** screen press the Side Keys next to **Setup, More,** and **Learn.**

The next screen asks, "Where do you want to learn?" The question means, do you want to learn a command and place it on a Side key of the EasyIcon10RF, or do you want to learn a Main Key command and place it on a Main Key of the EasyIcon10RF.

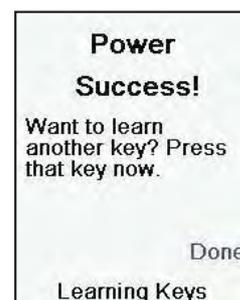
If you press a right Side Key (to select Main Keys) you are going to learn, say, the Chan Up key from an existing remote and store it under the Chan Up key on the EasyIcon10RF.

Or, learn the Power key from an existing remote and store it under the Power key on the EasyIcon10RF, etc.

Select the Device you want to learn keys for. In this example we only have a TV, Cable Box and Satellite Receiver set up, so the rest are grayed out, but you can still select any of the devices to learn commands for. You are then instructed to line up the remotes, and press the key on the EasyIcon10RF remote that you want to learn, e.g., the Power key.

Then, point the remote you want to learn commands from at the bottom of the EasyIcon10RF. Press and hold (in this example) the Power key on the other remote until the display shows that the command has been successfully learned. Note for some types of keys you might need to hold the key pressed, but for other types a quick press is sufficient. Experiment a bit. If keys you learn are sent multiple times try learning them with just a quick press.

If the screen says Failure, you can press the key and try again.



You can continue learning more individual keys by following the instructions on the screen, and then press Done when you're finished.

POWERMID XL AND XS

The Marmitek Powermid XL allows you to extend the distance you can use your remote! You will be able to hide your IR sender from sight, and still operate your TV or other electronic devices through entertainment centers, cabinet doors, from another room, etc. The IR-transmitter will receive the RF commands and sends them using IR through the transmitter cable included with your package!

SETTING UP MARMITEK X-10 DEVICES

The Easycon10RF Remote - coupled with other Marmitek X-10 Home Automation Modules - gives you the ability to operate everything electrical in your home. Once you set up your remote, you can operate almost any electrical device from the remote, using the keys that have been configured for Marmitek X-10 Home Automation Modules.

Description

Marmitek X-10 Home Automation systems use three types of signals - Infrared (IR), Radio Frequency (RF), and Power Line Carrier (PLC). The Easycon10RF remote can send either IR, RF signals, or both, depending on how you've set up the remote to operate different equipment.

SET UP THE REMOTE FOR RF TRANSMISSION

The following example describes how to set up your TV for RF control.

Note: Keep in mind that when you set up a device to be controlled by RF signals, e.g., to turn on a TV, then the TV must be connected to an Marmitek RF device, for example the Powermid XL and XS, which will act on the RF signals to turn the TV on or off. However, the Easycon10RF remote sends RF *automatically* when you are in Marmitek X-10 mode.

- Press **Home**.
- Select **Setup** using the Side Key.
- At the following screen select **More** using the Side Key.
- At the following screen select **Wireless (RF)**.
- The Mode screen appears; select the Device you want to set for RF by pressing its Side Key. (In this example, it's TV. The RF symbol appears on the **TV** icon.)
- Press **OK** to Save.



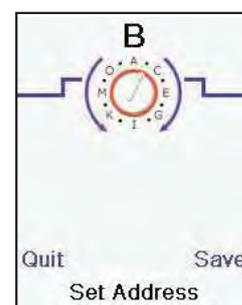
Note: After following the above steps, when you make selections in TV mode, you will notice that the transmit signals at the bottom of the screen are now *Green*. This indi-

cates that it is sending RF and IR to the TV. If the signals are in *Red*, it means that the remote is transmitting IR only.

SETTING UP MARMITEK X-10

Setting Up the EASYICON10RF to operate the TM13 Transceiver using Housecode "B." The TM13 Transceiver receives RF signals to control lights and appliances. Do the following to setup this transceiver.

- Press the **HOME** key to display the setup screen. Select Setup.
- Select **X-10**.
- Select **Add/Edit** at the next screen.
- Choose the room where you will locate the TM13. For this example choose **Basement**.
- Press the Side Key to select.
- At the add an X-10 device screen, press **OK**.
- Select **Pick Device**.
- Select **Appliances** and then scroll until you see the **TM13** icon. Select **TM13** using the appropriate Side Key.
- At the following screen select Address.
- Using the Side Keys, select "B."
- Select Save using the Side Key.



Note: The values in the Address screen must match the physical hardware settings for the Marmitek X-10 device. In this example, the settings were set to **B**. This means that **B** matches the physical settings for the TM13.

- Use the appropriate Side Keys to create a **Label**. The Label feature can have two lines of labels. The example on the right shows a Bath as an "Extra Bath." You enter each line of the label by pressing the Side Key for the line number, for example, **1** or **2**, and then entering the label using the alphanumeric keys as shown.
- Select **Save** to save the Label(s).
- Using the Side Keys, **Pick Logo** and select an appropriate logo (for example, the bathtub logo on screen 10 of 21).
- Select **Save** using the Side Key.
- Select **Done** using the Side Key.
- The Saving Settings screen appears.

USING MARMITEK X-10 FEATURES

After you've set up an Marmitek X-10 module, like the TM13 in the previous example, follow these steps to use the device.

- Press the **Mode** key to display the various components.
- Select **X-10** using the Side Key.
- Select the room that has the Marmitek X-10 device. (In the previous example it was

the **Basement.**)

- Press the Side Key for the icon to operate the device. You can turn it on, dim, or off. (**Note:** Many devices have follow-up screens, which also provide additional features for operating the device. Use the Side Keys and Navigation buttons to operate those features.)

QUICKPOWER FOR MARMITEK X-10 DEVICES

- Set up an Marmitek X-10 device using the Wizard or Add-Edit mode, for example a light in your Living Room with an LM12 module.
- Select Home/Setup/X10/More/QuickPower Macro.
- Select Pick Module, and select the command (s) you want to send. Try a simple "Off" command for now, but understand that you can string many commands from different modules and different rooms together in conjunction with delays as well.
- Select Save and then Done.
- Select Home/QuickPower.
- Press the Side Key next to the Marmitek X-10 icon to trigger the Quick Power Macro.

SET UP FOR SLEEP MACRO.

- Set up an Marmitek X-10 device using the Wizard or Add-Edit mode, for example a light in your Living Room with an LM12 module.
- Select Home/Setup/X10/More/Sleep Macro.
- Select "Pick Module" and select the command (s) you want to send. Try a simple "Off" command for now, but understand that you can string many commands from different modules and different rooms together in conjunction with delays as well.
- Select Save and then Done.
- Select Home/Sleep/X10.
- Press the Side Key to toggle when the command(s) will be sent for 15 minutes to up to an hour and a half away from the current time.

VOICE DIALER SECURITY

The EasyIcon10RF Remote used in conjunction with the SafeGuard/TotalGuard (SC9000) security console gives you the ability to operate your home security directly from your remote.

Description:

To set up your remote for the SafeGuard/TotalGuard console do the following:

- Press the Home key.
- Press the Set Up Side Key.
- Press the X-10 Side Key.
- Press the Add/Edit Side Key.
- Use the Side key to select the room that you want to associate the security device.



- At the “add an X-10 device!” screen, press the OK key.
- Use the Side Key to Pick Device.
- Press the Security Side Key.
- Press the Side Key to select the SC9000.
- At the Security Options screen, press the Side Key to Set Password.
- Enter your 4-digit security code using the alphanumeric keys (This is your choice; do not forget your security code.)
- Press the Side Key for the Set Console Link.
- Following the screen instructions to set your console to program mode by pressing and holding the OK key until the console chimes. (Note: Make sure that the SC9000 is in install mode.)
- Press the Side Key for Done.(2x)

USING THE REMOTE

Pressing either the  or  key *once* at any time accesses the favourites that you’ve set up. You can select any of your favourites by pressing the button next to the icon you want.



Pressing either the  or  key a *second time* accesses the Marmitek X-10 Home Automation modules that you’ve set up for **All Rooms**.

Use the Side Keys or the *Navigation Buttons* to select the icon you want to control.

Marmitek X-10 RF Devices

Selecting **Marmitek X-10** from the **MODE** key screen displays the Pick Group screen.

- Press the side key for the room that has the device that you want to operate. (For example, press the Side Key for “Living Room.”) The screen shows the device icons according to the way “Living Room” was set up.
- Press the Side Key to see an overview of the commands that can be send. Now press a Side Key to really send this command.



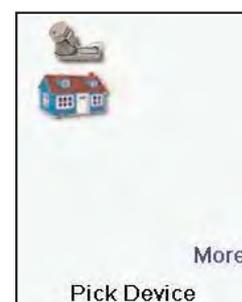
Extended Features

Note: Icons that have additional features follow with additional screen(s) when you select the icon. This allows you to operate those features. Some icons will only provide On or Off functions, some may provide dimming. It depends on the device’s capabilities.

Any Side Key associated with an icon can always be used to operate the features for the device. In addition, the *Main Keys* on the EasyIcon10RF remote can be used to operate Marmitek X-10 devices in unique ways.

Note: Controls for lights are as follows:

- **Prog** up and down turns the light On and Off.



- **VOL** up and down operates bright and dim if applicable.

You can press the Side Key next to the module you wish to operate and toggle an “On” or “Off” function as well.

MACROS

Macros allow you to combine a number of commands, including time delays, by using a single key press.

- Press the **Home** key.
- At the screen shown, press the Side Key for **Macros** and press **OK** to access the first time **Macro’s Wizard**.
- Press the **Pick Module** Side Key.
- Select the room, which contains the TM13 that you want the Macro for.
- Press the Side Key next to the icon that you choose for the TM13.
- Select the **On** Side Key.
- Press the **Set Delay** Side Key once for each second of delay you wish to add to the Macro.
- Press the **Pick Module** Side Key.
- Press the Side Key next to the icon that you choose for the TM13.
- Select the **Off** Side Key.
- Select **Save** and then **Done** using the Side Keys.

Note: When you want to create another Macro, you must do the following:

- Press Home, then the Setup Side Key.
- Press the X10 **Macros** Side Key.
- You’ll notice that the M 1 Side Key is a green color and that the remaining Macro numbers are black in color. Green signifies a Macro that has already been created, while black indicates an unused Macro placeholder. You’ll want to choose any of the black Macro number to set up a new Macro.

FREQUENTLY ASKED QUESTIONS

What is the reason for modules to switch on/off spontaneously?

It is possible that a Marmitek X-10 System is installed at one of your neighbours using the same House Code. To solve this problem try to change the House Code of your system, or have FD10 Phase Coupler/Filter installed at your incoming mains.

My modules will not respond to my controller.

Make sure that the House Code on all Modules and Controllers are set to the same House Code (A .. P).

My modules will not react to my remote / sensor.

When you use a remote or sensor, you should have at least one TM13 Transceiver or Marmitek X-10 Security Console installed in your house. These components will trans-

late the radio signals to the Marmitek X-10 signal on the power line. Using several remotes and sensors, you only need one central transceiver.

Am I able to increase the range of my remotes by using more Transceivers?

Yes, you can use more than one TM13 Transceiver in your home when the range of your remotes is not sufficient. The TM13 is using so called collision detection to prevent signals to be disturbed when more than one TM13 is transmitting. TM13's will wait for a quite power line before transmitting their data. To prevent your Marmitek X-10 System to become slow or to prevent dimming from becoming less smooth, make sure that the TM13 units are placed as far away from each other as possible.

The Favourites you set up don't operate your device.

Make sure you selected the correct device (TV, Cable, Sat, etc., when you set up each favourite.

The Remote's hard keys do not operate your product.

Make sure the remote is set to the correct Mode by pressing the MODE key followed by the appropriate Side Key for the device mode that you want.

- Program the remote with a new code.
- The remote may not contain the code for your device. Try learning the codes you need from your old remote.
- Install new batteries.

The remote does not operate some features of your product.

- Program the remote with a new code.
- The remote may not be able to operate all the features of your product or key names might be different than your product. Try learning codes from your old remote.

Having problems with learning?

If some learned keys transmit multiple times, e.g., if a learned Channel Up key changes more than one channel when you press it, or Up/Down/Left/Right navigation keys move more than one step when you press the learned key; try just giving the key to be learned a quick press (when you learn it) rather than holding the key pressed until the screen displays Success.

Your TV turns on when you press a Favourite key.

Some types of TV, e.g., Philips flat panel TVs turn on and go to the selected channel when you press a channel number while the TV is off. So for this type of TV pressing a favourite key will do the same thing (but it might not work for 3-digit channels, e.g., 550).

Do you still have questions? Please check out www.marmitek.com for more information.

TECHNICAL DATA

Hardware

LCD display:	176 * 220 pixel with back light
Display Colours:	65536
Surface Luminance:	150 cd/ m2
IR frequency range:	30-70 kHz
RF frequency:	433.92 MHz
Dimensions:	230 x 58 x 28 mm

Software

Protocol	100% Marmitek X-10 RF Protocol Support
Code library:	Operates all major brands
Symbol library:	944 channel logos 165 appliance logos
Macros:	up to 1024 steps
Learn function: for code library:	saved on flash memory permanently Memory chip 128K
Languages:	English, Deutsch, Francais, Español, Italiano, Nederlands.
Functions:	Punch through, Macro- , Mute- , Videotext- and Toptext

Power

Operating current:	<=75mA (with LCD on)
Operating current:	<=150mA (with LCD on and key pressed)
Standby current:	<=250uA (LCD off, no key pressed)
Power:	3 x 1.5V AA batteries (included)



Environmental Information for Customers in the European Union

European Directive 2002/96/EC requires that the equipment bearing this symbol on the product and/or its packaging must not be disposed of with unsorted municipal waste. The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electric and electronic equipment via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your old equipment, please contact your local authorities, waste disposal service, or the shop where you purchased the product.