

**Remotec**

To: 175 - Mr. Lawrence Chow

**Remotec Technology Ltd.**

Fax: 27855487

Jan. 03, 02

1301, Swire & MacLaine House, 19-23 Austin Avenue,  
TST, Kowloon, Hong Kong.  
Tel: (852) 2314-0330 Fax: (852) 2314-1006

Your ref:

Our ref:

Date:

Intertek Testing Services Hong Kong Ltd.  
2/F., Garment Centre,  
576 Castle Peak Road,  
Kowloon, Hong Kong.  
Attn: Mr. Lawrence Chow

RECEIVED DIVISION			
Incoming Date:		3 Jan 02	
		Action By	
		Lawrence	

Date: Jan. 02, 01.

Quotation ref: Q0111304

Model No: BW6311 [A/V Master 6000]  
          BW2112 [Remote Control Extender (Receiver)]

Re: Label and Manual additional wordings for FCC approval

This letter is issued on behalf of Remotec Technology Ltd. in declaration that the following wordings will be added on the product and manual for the models BW6311 A/V Master 6000  
BW2112 Remote Control Extender (Receiver)

BW6311

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Back Label Content:

FCC ID: M7N-BW6311TX-00

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Manual Content:

Warning: 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.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

P.1/3

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Date:

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- [1] Reorient or relocate the receiving antenna.
- [2] Increase the separation between the equipment and receiver.
- [3] Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- [4] Consult the dealer or an experienced radio/TV technician for help.

BW2112

-----  
Back Label Content:

FCC ID: M7N-BW2112RX-00

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Manual Content:

Warning: 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.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

P.2/3

# Remotec

## Remotec Technology Ltd.

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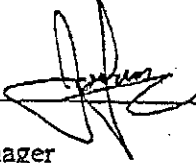
Your ref:

Our ref:

Date:

- [1] Reorient or relocate the receiving antenna.
- [2] Increase the separation between the equipment and receiver.
- [3] Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- [4] Consult the dealer or an experienced radio/TV technician for help.

For and on behalf of Remotec Technology Ltd.

  
Joel Lau  
R&D Manager

P.3/3

## English

Congratulations! Your Universal Remote Control (URC) is a state-of-the-art device which integrates many different infra-red remote controls to deliver instant A/V action to your fingertips.

Before operating the remote, please read thoroughly this manual. Then reserve them for future reference.

### 1 HOW TO INSTALL BATTERIES

Alkaline batteries recommended. The number of battery required stated at the back of the coversheet.

1. Remove the battery cover on the back of your URC.
2. Observe the polarity of the batteries and the "+/-" marks inside the battery compartment.
3. Insert the batteries.
4. Push the battery cover back in place.

#### Battery Low

If the indicator flashes twice slowly after your invoking of any command, it shows that the battery level is low. You must replace them with new batteries to ensure proper functioning.

### 2 HOW TO SET UP THE URC

#### By entering Device Code

You may setup the URC by the following code entering instructions.

1. Refer to the DEVICE CODE LIST, look up the 4-digit Device Code which corresponds to the brands of your AV equipment. If there are more than one Device Code listed under your brand, try from the first code.
2. Press a desired Device Mode Key (e.g. **TV**).
3. Hold down **+** and **→** on the URC together simultaneously for 2 seconds until the indicator lights up.
4. Use the number keys **0-9** to enter your 4-digit Device Code, the indicator should go out immediately.

Turn on your device (e.g. TV), try the function keys on the URC. If your device (e.g. TV) responds to your invoked function correctly, you have entered the right Device Code. Otherwise, repeat the above setup instructions with the rest available Device Codes until your device (e.g. TV) responds to your invoked function, and most keys work correctly.

- \* Simply repeat the above procedures to enter the Device Codes for your VCR, SAT, CD or CTV. (Remember to press a correct Device Mode Key in step 2 above)

#### Note:

- CD, CTV and other Device Codes can be entered into any device modes except "TV" & "VCR" modes. Just simply press the device mode key and enter your 4-digit device code for CD, CTV and other devices. If the indicator flashes twice in step 4, a wrong Device Code has been entered. You are required to repeat step 2 to 4 again.

#### Suggestion:

- If you cannot find a correct Device Code for your equipment, see **2** HOW TO SET UP THE URC - By Searching Through the Library.
- You are recommended to jot down your Device Codes in the space provided on back label after setting up the URC correctly for future reference.

## English

### By Searching Through the Library

If you cannot identify a correct Device Code for your equipment from the Device Code list, you may search the code through the library:-

1. Turn on your device manually (e.g. TV).
2. Press a desired Device Mode Key (e.g. **TV**).
3. Hold down **+** and **→** on the URC together simultaneously for 2 seconds until the indicator lights up.
4. Enter a corresponding Magic Search Code from following table. The indicator should go out immediately.

DEVICE TYPE:	TV	VCR	SAT	CTV	CD
MAGIC SEARCH CODE:	0001	0002	0003	0004	0005

(e.g. press **TV** device mode key, then press **+** and **→**, and enter TV Magic Search Code 0001.)

5. Press the same desired device mode key again as in step 2 above. (e.g. **TV**)
  6. Hold down **+** & **→** together simultaneously for 2 seconds until the indicator lights up, and your URC is ready to start searching.
  7. Aim the URC at your device (e.g. TV), press the "**U**" key repeatedly, slowly and patiently until the device has been turned off.
- Once your device has been turned off, immediately press **+** and **→** to lock in code and the indicator should go out.

- \* Simply repeat the above setup procedures to search the Device Code for your VCR, SAT, CD or CTV. (Remember to press a correct Device Mode Key and correct Magic Search Code in step 2-5 above)

#### IMPORTANT:

- If the power on/off function of your device is not infra-red controlled - you need to follow steps 2 to 6 above and start searching :-

- Press "**U**" and another important function key alternately until your device responds to the expected function, press **+** and **→** to lock in the code.

e.g. Press "**U**" & "**1**" alternately, or ;  
Press "**U**" & "**▲**" alternately.

#### Note:

- CD, CTV and other device codes can be searched and locked into any device modes except "TV" & "VCR" modes. Just simply press the corresponding device mode key in step 2 & 5 and enter an appropriate Magic Search Code for your CD, CTV and other devices.

- Each time you press the "**U**", the URC will skip to the next code and send out a POWER signal trying to turn off your device.

- If you failed to stop pressing "**U**" in time when your device has been turned off, turn on your device again immediately. Before the indicator goes out, press "**←**" on the URC to skip backward. Repeat the step 7 above and lock in code.

- If the indicator flashes twice after your pressing of "**U**" key, you are already at the last code of the library. Press **+** and **→** to resume the URC and repeat carefully the above procedures to search again.

Remotec

MODEL **VS-6211**

- Released for
- PRELIMINARY INFORMATION
- QUOTATION ONLY
- MOCK UP ONLY
- HARD/SOFT TOOLING
- TOOL MODIFICATION
- TECHNICAL MANUAL
- MANUFACTORY
- PRINTING

MARKETING ITS

Prepared by *Janice*  
Date: *Dec 10, 1981*  
Approved by *[Signature]*  
CIP: *[Signature]*

## English

### 3 OPERATING THE URC

#### Normal Operation


Once you have set up the URC for your AV equipment, it works like your original remote controls. To operate, just aim it at your equipment, press an appropriate device mode key and invoke the desired function by pressing a corresponding key on the URC. The indicator flashes during signal transmission and as confirmation of key touch.

#### Punch Through

Punch through allows you to operate TV's volume and mute functions without having to switch the device modes repeatedly even when your URC is in other operating modes.

### 4 ADVANCED OPERATION

#### Secondary Function

Symbols of secondary function are printed in different colors on the panel, and a SECONDARY FUNCTION TABLE is included on page 23. To invoke a secondary function, press  followed by a corresponding function key.

### 5 MAINTENANCE

- Do not expose your URC to dust, strong sun light, humidity, high temperature, or mechanical shock.
- Do not use old and new batteries together as old batteries tend to leak.
- Do not use corrosive or abrasive cleansers on your URC.
- Keep the unit dust free by wiping it with a soft, dry cloth.
- Do not disassemble your URC, it contains no user-serviceable parts.

### 6 TROUBLESHOOTING

- Q. My URC does not work at all  
A. Check your AV device, if the device's main switch is turned off, your URC could not operate your device.
- A. Check whether your batteries are inserted properly and are in correct +/- marks.
- A. Check whether you have pressed the corresponding device mode key for your device.
- A. If the batteries are low, replace the batteries.
- Q. If several Device Codes listed under the brand of my AV device, how can I select the correct Device Code?  
A. To seek the correct Device Code for your AV device, test the code one by one until most keys work properly.
- Q. My AV equipment responds only to some of the commands.  
A. You have set a code for which only some commands work properly but some do not. Try other codes until most keys work properly.

## DEVICE CODE

### TV Brands

Model	Code	Device Code	Brand	Code
ADMIRAL	0411	0911	DEGRAAF	1351
AIKO	0071	1081	DXI	0981
AKAI	0861	0101	DOMOS	0101
	0661	0231	DOMIC	1031
	1191	1351	DUAL	0091
	1641	1791	DUAL-TEC	1641
	1981	1891	DUMONT	1511
	1331	1331	DUMONT	0821
AKURA	1241	2361	DUMONT	1021
ALBA	1971	1511	DYNATRON	1711
ALBIRAL	1301	1511	ELBE	1981
AMSTRAD	0571	0761	ELECTRO TECH	1511
ANAM	0571	0761	ELEKTRONISKA	0771
ARC EN GIEL	0751	1641	EUKAN	0261
ARCORA	0451	0451	FLTA	1511
ARCTONA	0411	0451	EMERSON	1511
ARTHUR MARTIN	0781	0871	ERRE'S	0921
ASA	1081	0871	EUROPHON	1171
	1511	2021	FENNER	1301
	1751	2551	FERRISON	1301
	0761		FILMNET	1141
ASTRA	1511	1321	FINLANDIA	1141
ATLANTIC	1181	1411	FINLUX	0451
ATORI	0491	0351	FIRST LINE	0821
AUDISONIC	0491	0781	FISHER	0511
AUTOTOX	0491	1081	FUNAI	0821
	1391	1421	FUTURETECH	1081
	1301	1351	GBC	0921
BAIRD & OLUFSEN	1081	1331	GEC	1511
BANG & OLUFSEN	1451	0061	GEC (UK)	0601
BASLER LINE	0131	0221	GELOSO	0321
BAUER	0131	0221	GENERAL TECHNIC	1981
BAUR	0221	2501	GENEXXA	2681
BEKO	0221	0231	GOLDSTAR	0451
BLAUPUNKT	0251	0741	GOODMANS	0591
	2301	2221	CORENJE	0791
	2571	2241	CRALEY	1841
	2571	2581	GRANADA	1841
	0671	0651	GRANADA	0451
BRANDT	0901	1821	GRANADA (UK)	1111
BRIGANTON	1321	1511		1111
BRIQUNVEGA	1021	1051		0451
BRITANNIA	0761	0991		0981
BRUNS	0821	0891		1351
BSR	0391	0981		1371
	0451	1741		1371
BUSH	2541	1741		1371
	0481	1561		1371
BUSH (UK)	0791	1081		1371
CANDLE	1021	1081		1371
CENTURY	0491	0811		1371
CGE	1401	1531		1371
	1621	1981		1371
	2251	2271		1371
CITIZEN	0791	0961		1371
CLARVOX	0821	1331		1371
CLATRONIC	0191	0191		1371
CONDOR	0781	1171		1371
CONTEC	0151	0651		1371
CONTINENTAL EDISON	1171	0651		1371
COSMOS	0021	0491		1371
CROSLEY	1081	1401		1371
	2201	2251		1371
	2541	2271		1371
CROWN	0261	0261		1371
CTC CLATRONIC	1171	1501		1371
CXC	0101	0101		1371
DAEWOO	0701	0701		1371
	0701	0701		1371
DANSAI	0271	1101		1371
DECCA	0571	1101		1371
	0271	0681		1371
	1101	1681		1371









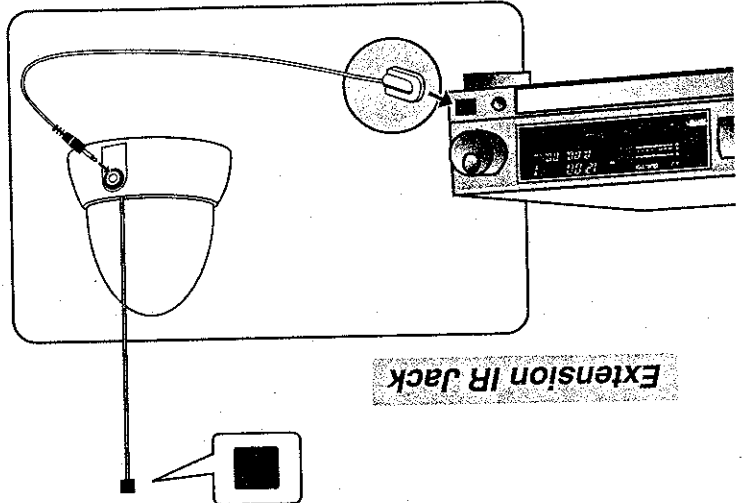
Date: Dec 1991  
 Approved by: Steve  
 Prepared by: Carl  
 (cc) MARKETING IS (cc)

PRINTING  
 MANUFACTORY  
 TECHNICAL MANUAL  
 TOOL MODIFICATION  
 HARD/SOFT TOOLING  
 MOCK UP ONLY  
 QUOTATION ONLY  
 PRELIMINARY INFORMATION

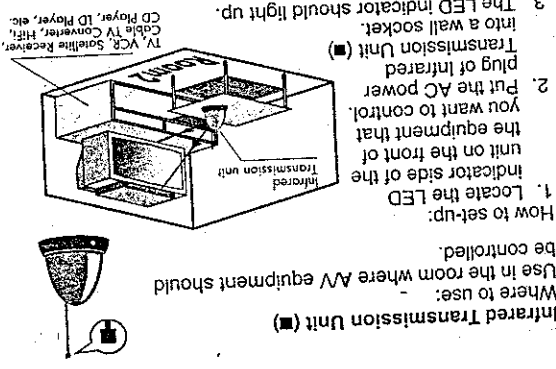
Released for: MODEL 82011V  
 Remotec

user manual

82020230000



Extension IR Jack



Infrared Transmission Unit (■)

Where to use:  
Use in the room where AV equipment should be controlled.

How to set-up:

1. Locate the LED indicator side of the unit on the front of the equipment that you want to control.
2. Put the AC power plug of Infrared Transmission Unit (■) into a wall socket.
3. The LED indicator should light up.

TV, VCR, Satellite Receiver, Cable TV Converter, HiFi, CD Player, LD Player, etc.