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## Instructions acquiring HBO/Cinemax Programming Motorola DSR-series Digicipher® II Commercial Receiver/Decoders\*

Installation of the Digicipher II IRD involves a simple hook up and a manual tune to select the HBO network carrier. Follow these steps, but consult the DSR-xxxx Digicipher® II Commercial Receiver/Decoder Operator Guide for more information. Refer to the Operator Guide for the LCD panel menu layout.




















1. Check the packaging for the power cords and accessories. Install the IRD in a 19-inch rack. Connect the power cord. Verify that at least one LED on the front panel is lit. Verify the LCD panel is lit. If not, press any front panel keys (     **E** ) to light it.
2. Connect the vertical polarity L-band coax to Port 0 on the rear panel and the horizontal polarity L-band coax to port 1. Use DC blocks where appropriate to prevent another IRD's LNB power output from shutting down the IRD.

Please consult the transponder tables below for tuning details.

3. Configure L-band input Port 1 first, when an MPEG2 carrier is present. From the "Language" menu (appears first time only):
  - a. Press  once and the Installation group menu appears. Press **E** to enter the Manual Tune menu.
  - b. Verify that the Port 1 LED on the front panel is lit. If not, Press  to move to the Port field. Press **E** and use  to select port "1", press **E** to make the selection effective and return to the top line of the menu.
  - c. Verify that the Type is "C-band." If not, press  to move to the Type field, press **E**, use  or  to select. Press **E** to make the selection effective and return to top line of the menu.
  - d. Press  to move to the "Xpndr" field. Refer to the table, above. Press **E** and use the     to select appropriate number (23, 18, 11 or 10), and press **E** to make the selection effective and exit the lower line of the menu. At this point you should wait until the front panel screen "DigiCipher" LED comes on. This could take up to thirty or forty seconds.
  - e. Press the  to move to the Manual Tune field (upper line, left end); press **E** to exit the Manual Tune menu.

- f. Note that Step #3d causes the receiver to begin a search for the digital carrier. When new or after a reset, the receiver must try a long list of combinations and may require up to 10 minutes, although common combinations are typically 30 seconds. If the combination was not found in the first try, the receiver repeats the cycle until a carrier is found.

NOTE: If you are setting up the receiver without a carrier present on the L-band input, perform step #4 before Step #3; the receiver will remember the VCT and channel number when a carrier is present, and present the correct video when authorized. The receiver will give a warning message on the LCD that a channel on that transponder is not present if you do not install Port 0 before attempting to select that channel.

4. Select VCT number and virtual channel.
  - a. Press  or  until the Channel Selection group appears and press **E** to enter the CH\_Select menu.
  - b. Press  to move to the VCT field. Press **E** and     to select appropriate VCT number.
  - c. Press  to move to the Chnl field. Refer to the Digital Transponder chart (on the first page of this document) to determine the desired program's virtual channel. Press **E** and use     to select the virtual channel, then press **E** to exit the lower menu line.
  - d. Press  and  to move to the CH\_Select field (upper left corner) and press **E** to exit the CH\_Select menu.
  - e. After determining the unit's address number (from the rear panel label), call the HBO Authorization Hotline at (212) 512-5666 for authorization. Verify that the Authorized LED on the front panel is lit. Connect a local monitor to verify video is correct.
5. Set up audio outputs and confirm the receiver is set for correct audio modes:
  - a. For HBO/Cinemax Multiplex Feeds, please follow these instructions. From the Channel Selection Menu, press  to return to Installation Menu group, and press **E** to enter. Press  eight times to enter the Audio1 menu. Verify the AudioMix is surround stereo. If not, press  to move to AudioMix, press **E** to enter, then  or  to select "Surr stereo". Verify AudioMix for Audio2 is "Surr Stereo". Caution menu may alert you to the need to select language(s). This is done in the next step.

6. Set up Audio Languages
  - a. Press **↑** to move to the Channel Selection menu group and press **E** to enter. Press **↓** twice to enter Language1 menu. Verify Left and Right are "eng" for English. Press **↓** once to move to the Language 2 menu. Verify Left and Right are "spa" for Spanish.
  - b. For Channel 241 or 242 users, move to the Left field, press **E** then use **↑** **←** **↓** **→** to scroll to "hbo" before pressing **E** to exit the field. Press **→** to move to the Right field, press **E** , then use **↑** **←** **↓** **→** to scroll to "max" before pressing **E** to exit the field. (Note: This is different from DigiCipher I. HBO en Español will be mono on Audio 1 (L1). Cinemax Selecciones will be mono on Audio 1 (R1).

To verify the correct setup, check your program guide to verify Spanish audio is available on the current program. If it is not, mono English will be transmitted.

7. Connect the video and audio outputs to your cable plant after confirming proper operation. The *Operator Guide* will show you how to configure the IRD. We recommend that you read it now. Should you need any assistance or encounter any difficulties, call the Motorola Technical Hotline at (888) 944-4357.

If you require further assistance please contact the Motorola TAC at: (888) 944-4357

### **HBO and Cinemax MPEG-2 SD and HD Transponders**

Program	Satellite	Transponder/ L-Band Frequency <sup>1</sup>	Pol	Virtual Channel Table (VCT) Number	Virtual Channel
HBO E	G15	23 (990)	H	205	101
HBO 2 E	G15	23 (990)	H	205	102
HBO Signature E	G15	23 (990)	H	205	103
HBO Family E	G15	23 (990)	H	205	104
HBO Latino E	G15	23 (990)	H	205	107
Cinemax E	G15	23 (990)	H	205	121
MoreMAX E	G15	23 (990)	H	205	122
ActionMAX E	G15	23 (990)	H	205	123
HBO W	G15	23 (990)	H	205	111
HBO 2 W	G15	23 (990)	H	205	112
HBO Signature W	G15	23 (990)	H	205	113
HBO Family W	G15	23 (990)	H	205	114
HBO Latino W	G15	23 (990)	H	205	117
MAX W	G15	23 (990)	H	205	131
MoreMAX W	G15	23 (990)	H	205	132
ActionMAX W	G15	23 (990)	H	205	133

<sup>1</sup> L Band frequencies assume an LNB with Local Oscillator of 5.150 MHz

Program	Satellite	Transponder/ L-Band Frequency <sup>2</sup>	Pol	Virtual Channel Table (VCT) Number	Virtual Channel
HBO Zone E	G15	18 (1090)	V	206	106
ThrillerMAX E	G15	18 (1090)	V	206	124
WMAX	G15	18 (1090)	V	206	115
@MAX	G15	18 (1090)	V	206	116
5StarMAX	G15	18 (1090)	V	206	144
OuterMAX	G15	18 (1090)	V	206	128
HBO Comedy W	G15	18 (1090)	V	206	118
HBO Zone W	G15	18 (1090)	V	206	119
ThrillerMAX W	G15	18 (1090)	V	206	134

Program	Satellite	Transponder/ L-Band Frequency	Pol	Virtual Channel Table (VCT) Number	Virtual Channel
HBO HD E	G13	10 (1250)	H	112	151
HBO HD W	G13	10 (1250)	H	112	162
Cinemax HD E <sup>3</sup>	G13	11 (1230)	V	730	153
Cinemax HD W <sup>4</sup>	G13	11 (1230)	V	730	164
<b>HBO/Cinemax On Demand SD/HD</b>	G14	No IRD required. Ericsson (f.k.a. Tandberg) will configure the NextGen catcher for reception.			

<sup>2</sup> L Band frequencies assume an LNB with Local Oscillator of 5.150 MHz

<sup>3</sup> Cinemax HD requires a Motorola DCII MegaPipe+ (MPP) capable receiver such as a DSR-4410 or DSR-4410MD.

<sup>4</sup> Cinemax HD requires a Motorola DCII MegaPipe+ (MPP) capable receiver such as a DSR-4410 or DSR-4410MD.

## HBO and Cinemax MPEG-4 HD Transponders

**Required equipment for reception of the DVB-S2 8PSK signal:  
DSR-4410MD Multi-decrypt, DSR-6050 Single Transcoder, or DSR-6300 3X Transcoder**

Note: The DSR-6300 IRD does not require the setting VCT and VCN at the downlink.  
Its output provides three MPEG-2 HD programs.

Program	Satellite	Transponder/ L-Band <sup>5</sup> Frequency <sup>6</sup>	Pol	Virtual Channel Table (VCT) Number	Virtual Channel
HBO E HD	G15	19 (1070)	H	812	441
HBO 2 E HD	G15	19 (1070)	H	812	442
HBO Signature E HD	G15	19 (1070)	H	812	443
HBO Family E HD	G15	19 (1070)	H	812	444
HBO Latino E HD	G15	19 (1070)	H	812	445
Cinemax E HD	G15	19 (1070)	H	812	446
MoreMAX E HD	G15	19 (1070)	H	812	447
ActionMAX E HD	G15	19 (1070)	H	812	448
HBO W HD	G14	16 (1130)	V	813	461
HBO 2 W HD	G14	16 (1130)	V	813	462
HBO Signature W HD	G14	16 (1130)	V	813	463
HBO Family W HD	G14	16 (1130)	V	813	464
HBO Latino W HD	G14	16 (1130)	V	813	465
MAX W HD	G14	16 (1130)	V	813	466
MoreMAX W HD	G14	16 (1130)	V	813	467
ActionMAX W HD	G14	16 (1130)	V	813	468
HBO Comedy E HD	G14	18 (1090)	V	816	481
HBO Comedy W HD	G14	18 (1090)	V	816	482
HBO Zone E HD	G14	18 (1090)	V	816	483
HBO Zone W HD	G14	18 (1090)	V	816	484
ThrillerMAX E HD	G14	18(1090)	V	816	485
ThrillerMAX W HD	G14	18(1090)	V	816	486
WMAX HD	G14	18 (1090)	V	816	487
@MAX HD	G14	18 (1090)	V	816	488
5StarMAX HD	G14	18 (1090)	V	816	489
OuterMAX HD	G14	18 (1090)	V	816	490

<sup>5</sup> MPEG-4 HD signals are transmitted in the DVB-S2 8-PSK format, FEC Rate 5/6

<sup>6</sup> L Band frequencies assume an LNB with Local Oscillator of 5.150 MHz