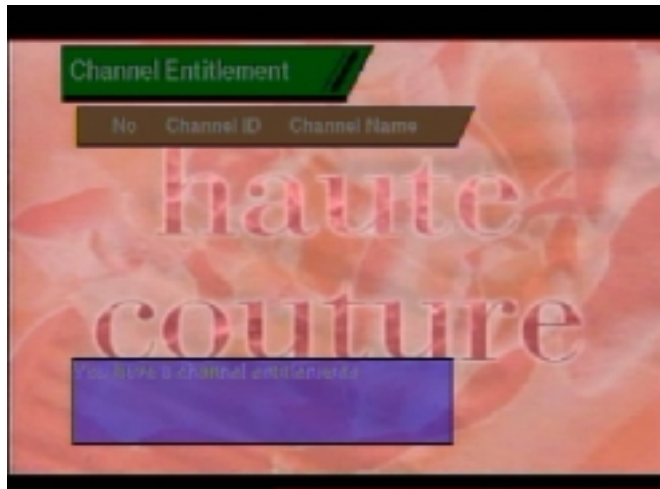
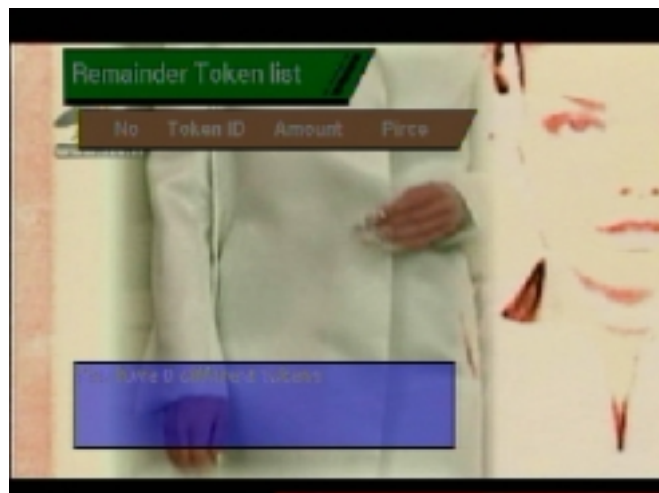




Remainder Token List

This menu shows how many tokens you have and the unit price of each token at that time. As you use the service, the number of token will decrease. If you need more token, you should contact the service provider to have additional token.



Usage-record

This menu shows the record of a subscriber usage.



Amount of record

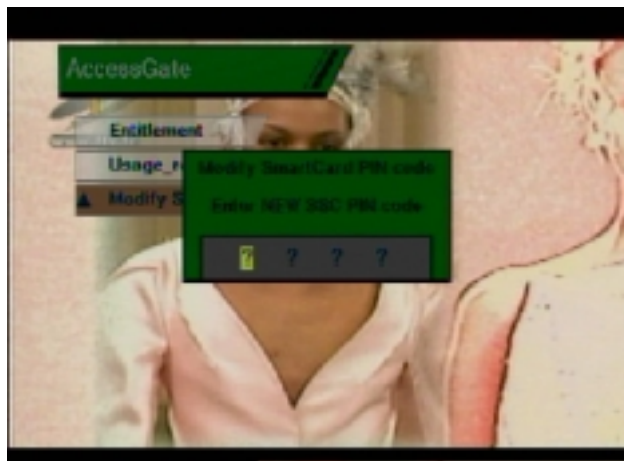
This menu shows the record of your usage. The smart card that each subscriber has keeps the usage information. If the amount of record exceeds certain level of the total this, the information should be sent to the service provider and be cleared.

List of Record

This menu shows the list of usage record of a subscriber.

Modify Smart Card PIN

The smart card PIN(Personal Identification Number) is different from that PIN that you enter at the installation menu. The PIN is initially given by the service provider when you subscribe to a service. If you want to change the number, you can use this menu. If you forget the PIN, you should contact the service provider.



Trouble Shooting

OSD Display Message

Message or Display	Possible Causes	Remedies
IP Address changed. System will reboot	Displayed when IP address is changed in LAN Setting Menu.	
Initializing System Please Wait	Displayed when power on and during initialization and self diagnosis.	
No Satellite Information in the memory. To exit, press EXIT or MENU	Displayed when the Satellite information in IRD was not valid	Download Satellite Information from Telemann's web site. Http://www.telemann.com
No Signal Check System or Select other Channel	Displays when power-on, channel changes, or when not locked. The system will retry to catch the signal.	Check if the antenna cable is correctly connected. Check if the information was correctly entered in LNB configuration and Channel Search Menu.
No Transponder Data Enter The Data	When Power on, there is no Channel Data in IRD	After setting LNB configuration, select Auto installation or enter channel data in Channel Search Menu
Radio Channel !	The current channel is a Radio Channel	
Scrambled Channel	The current channel is scrambles	
Search Channel Please Wait	Displays when power on, channel changes, or when not locked.	
Updating Information Please Wait ...	Displayed when the information in IRD is updated due to addition or deletion of Channel Data or Parental Lock. Displayed also due to the information change of Edit Channel Menu.	

Message or Display	Possible Causes	Remedies
Warning !. You will lose	Displayed when you run	

current IRD settings. If you want to continue, press OK again.	“Factory Default Menu” under Installation/System settings. All information in IRD will be reset to Factory Default information. Any new information will be erased and cannot be restored.	
Wrong Password !	Wrong Password was entered In Parental Lock, Installation Menu, and Channel of Parental Lock	Enter correct Password.

Front Panel Display Message

Message or Display	Possible Causes	Remedies
-----	IRD is at standby	Press Standby key on Front Panel or Remote control and activate the IRD.
0000	Displayed when IRD does not work within three seconds after transition to Active Mode.	Refer to Service Center
BERR	Displayed when error occurred at the conversion from Bootloader to Main Program.	Refer to the service center.
BOOT	Displayed when downloading was successful or IP Information has been changed in LAN Setting Menu. Displayed when the change occurred from Bootloader to Main Program. Maybe can not be seen due to the fast change.	
C . . .	At the change from Standby mode to Active Mode, displayed untill Bootloader activates.	

Message or Display	Possible Causes	Remedies
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D OK	Displayed when Main Program or Satellite Information has been successfully downloaded. When rebooting happens fast, you can not see this Message.	
DERR	Displayed when when downloading of Main Program or Satellite Information has been failed.	Try to download the latest information from the Telemann's web site. If you have the same error again, please refer to the service center.
DOWN	Displayed while downloading the Main Program or Satellite Program.	
NOCH	Displayed when there is no channel data in IRD at power on	Do Auto Installation or Enter channel data at Channel Search Menu.
SERR	Displayed when the version of downloaded information (Main program or Satellite Information) has the same as or previous than the current information version in IRD.	Download the latest Main Program or Satellite Information.

Technical Specifications

Tuner

Input Frequency 950-2150MHz
 Input Impedance 75Ω
 Connector 2xF-type
 LNB Power Supply 14/18V/OFF, Max.600mA
 With Short Circuit Protection
 Band Switch Control 22KHz, DiSEqC1.0

Demodulator

Waveform QPSK
 Symbol Rate 2-45MS/s
 Roll of Factor 0.35
 Outer Decoder Reed Solomon (204,188,16)
 Deinterleaver Convolutional, Depth 12
 Inner Decoder Convolutional, Length 7
 Code Rate 1/2,2/3,3/4,5/6,7/8
 SCPC and MCPC Capable

Demultiplexer

CD ISO/IEC 13818-1 Compliant

Video Decoder

Video Decoder CD ISO/IEC 13818-2 Compliant
 MPEG-2 Main Profile @Main Level
 Video Format 4:3, 16:9 (PAN and SCAN)
 Video System PAL/SECAM<-->NTSC Converter
 RF Output CH21-69 (PAL B/G/I/D/K or
 CH3, 4 (NTSC)

Audio Decoder

Audio Decoder MPEG-1 & MPEG-2 Layer I and II
 (Musicam Audio)
 Audio Channel Mono, Dual Channel,
 Stereo
 Volume Control 40 Level Adjust

Serial Data Interface

Connector 9-Pin D-Sub(Male)
 Signal RS-232 Max.384Kbaud
 Software available from our WWW site :
<http://www.telemann.com>

System Service Interface

Connector 15-Pin D-Sub(Female)
 Signal DCU LINK Signal

Fast Ethernet Output

Easy Menu for Selecting multi PIDs
 Fully DVB-Data(ETSI 301 192) compliant
 LAN Connector provided
 MPEG-TS of selected PIDs outgoing through LAN port
 with Ethernet Frame Data Format
 100BaseT or 10Base T
 Software available from our WWW site :
<http://www.telemann.com>

Audio/Video Connectors

TV Scart RGB, CVBS, Audio
 VCR Scart CVBS, Audio
 Audio Output 2xRCA Cinch (L/R)
 Composite
 Video Output 1xRCA Cinch
 S-VHS Video Output 1xMini-DIN

Internal Modem(Optional)

Modular Jack RJ11 Type
 Up to 33.6 kbps

General

Remote Control Unit
 Color OSD, Easy-to-Use Menu
 Operating temp. +5□ to +40□
 Power Supply Voltage 85 to 265VAC 50/60Hz
 Power Consumption Max. 30W (Stand-by 5W)
 Weight Approx. 3.0Kg
 Dimensions 380(W) x 250(D) x 80(H)mm
 Channel Memory
 LNB 8
 Transponder Max 200
 Channel Max 1,000

Factory Default Satellite Information

Based on the Satellite and Transponder information here, DTR5000CN automatically sets all channels from a Satellite. This information may change from time to time. When you cannot receive any signal from any satellite or transponder, check the information of those satellite or transponder.

<<< Version : 00.01

<< Region : ASIA

<<< The number of Satellite : 11

Satellite Name : NSS 703 at 57° East	
*** The number of Transponder : 12	
*** Downlink Frequency	
* 1 : 3825	* 6 : 4187
* 2 : 3843	* 7 : 4196
* 3 : 4027	* 8 : 10992
* 4 : 4095	* 9 : 11057
* 5 : 4143	* 10 : 11075
	* 11 : 11555
	* 12 : 11600

Satellite Name : Apstar 2R at 76.5° East	
*** The number of Transponder : 17	
*** Downlink Frequency	
* 1 : 3695	* 9 : 12303
* 2 : 3720	* 10 : 12360
* 3 : 3814	* 11 : 12365
* 4 : 3849	* 12 : 12370
* 5 : 3880	* 13 : 12400
* 6 : 3920	* 14 : 12403
* 7 : 3960	* 15 : 12430
* 8 : 12280	* 16 : 12493
	* 17 : 12629

Satellite Name : Asiasat 2 at 100.5° East	
*** The number of Transponder : 34	
*** Downlink Frequency	
* 1 : 3700	* 18 : 3830
* 2 : 3706	* 19 : 3834
* 3 : 3713	* 20 : 3840
* 4 : 3720	* 21 : 3847
* 5 : 3727	* 22 : 3854
* 6 : 3734	* 23 : 3900
* 7 : 3740	* 24 : 3940
* 8 : 3765	* 25 : 4000
* 9 : 3766	* 26 : 4007
* 10 : 3774	* 27 : 4020
* 11 : 3786	* 28 : 4133
* 12 : 3796	* 29 : 4143
* 13 : 3799	* 30 : 4185
* 14 : 3806	* 31 : 12244
* 15 : 3813	* 32 : 12329
* 16 : 3820	* 33 : 12339

* 17 : 3827	* 34 : 12349
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Satellite Name : Asiasat 1 at 105.5° East	
*** The number of Transponder : 2	
*** Downlink Frequency	
* 1 : 3780	
* 2 : 3880	

Satellite Name : Cakrawarta 1 at 107.7° East	
*** The number of Transponder : 4	
*** Downlink Frequency	
* 1 : 2536	* 3 : 2596
* 2 : 2566	* 4 : 2656

Satellite Name : Apstar 1 at 138° East	
*** The number of Transponder : 11	
*** Downlink Frequency	
* 1 : 3684	* 6 : 3900
* 2 : 3730	* 7 : 3914
* 3 : 3742	* 8 : 3924
* 4 : 3860	* 9 : 3980
* 5 : 3870	* 10 : 4195
	* 11 : 3800

Satellite Name : Superbird C at 144° East	
*** The number of Transponder : 17	
*** Downlink Frequency	
* 1 : 12362	* 9 : 12613
* 2 : 12508	* 10 : 12628
* 3 : 12523	* 11 : 12643
* 4 : 12538	* 12 : 12658
* 5 : 12553	* 13 : 12673
* 6 : 12568	* 14 : 12688
* 7 : 12583	* 15 : 12703
* 8 : 12598	* 16 : 12718
	* 17 : 12733

Satellite Name : Agila 2 at 146° East	
*** The number of Transponder : 6	
*** Downlink Frequency	
* 1 : 3915	* 4 : 4133
* 2 : 4085	* 5 : 4155
* 3 : 4126	* 6 : 12301

Satellite Name : Optus B3 at 156° East	
*** The number of Transponder : 6	
*** Downlink Frequency	
* 1 : 12407	* 4 : 12595
* 2 : 12438	* 5 : 12626
* 3 : 12564	* 6 : 12689

Satellite Name : Optus B1 at 160° East	
*** The number of Transponder : 5	
*** Downlink Frequency	
* 1 : 12367	* 4 : 12518
* 2 : 12391	* 5 : 12546
* 3 : 12418	

Satellite Name : Panamsat 2 at 169° East	
*** The number of Transponder : 35	
*** Downlink Frequency	
* 1 : 3716	* 18 : 4189
* 2 : 3743	* 19 : 12265
* 3 : 3776	* 20 : 12295
* 4 : 3778	* 21 : 12305
* 5 : 3804	* 22 : 12325
* 6 : 3836	* 23 : 12492
* 7 : 3859	* 24 : 12513
* 8 : 3901	* 25 : 12525
* 9 : 3939	* 26 : 12529
* 10 : 3940	* 27 : 12605
* 11 : 3963	* 28 : 12629
* 12 : 4034	* 29 : 12637
* 13 : 4093	* 30 : 12646
* 14 : 4148	* 31 : 12656
* 15 : 4153	* 32 : 12665
* 16 : 4174	* 33 : 12703
* 17 : 4183	* 34 : 3778
	* 35 : 3901

<<< Region : AMERICA

<<< The number of Satellite : 14

Satellite Name : Echostar 4 at 212° East (148° West)	
*** The number of Transponder : 6	
*** Downlink Frequency	
* 1 : 12253	* 4 : 12428
* 2 : 12311	* 5 : 12486
* 3 : 12370	* 6 : 12545

Satellite Name : Satcom C4 at 225° East (135° West)	
*** The number of Transponder : 2	
*** Downlink Frequency	
* 1 : 3800	* 2 : 4067

Satellite Name : Galaxy 1R at 227° East (133° West)	
*** The number of Transponder : 8	
*** Downlink Frequency	
* 1 : 3760	* 5 : 4014
* 2 : 3834	* 6 : 4025
* 3 : 3960	* 7 : 4060
* 4 : 4000	* 8 : 4160

Satellite Name : Satcom C3 at 229° East (131° West)	
*** The number of Transponder : 9	
*** Downlink Frequency	
* 1 : 3720	* 5 : 4000
* 2 : 3760	* 6 : 4075
* 3 : 3784	* 7 : 4100
* 4 : 3820	* 8 : 4140
	* 9 : 4176

Satellite Name : SBS 5 - Galaxy 9 at 237° East (123° West)	
*** The number of Transponder : 10	
*** Downlink Frequency	
* 1 : 3795	* 6 : 3920
* 2 : 3814	* 7 : 3960
* 3 : 3840	* 8 : 4160
* 4 : 3880	* 9 : 11735
* 5 : 3900	* 10 : 11792

Satellite Name : Echostar 1/2 at 241° East (119° West)	
*** The number of Transponder : 21	
*** Downlink Frequency	
* 1 : 12224	* 11 : 12370
* 2 : 12239	* 12 : 12384
* 3 : 12253	* 13 : 12399
* 4 : 12268	* 14 : 12414
* 5 : 12282	* 15 : 12428
* 6 : 12297	* 16 : 12443
* 7 : 12311	* 17 : 12457
* 8 : 12326	* 18 : 12472
* 9 : 12341	* 19 : 12486
* 10 : 12355	* 20 : 12501
	* 21 : 12516

Satellite Name : Anik E2 at 252.7° East (107.3° West)	
*** The number of Transponder : 40	
*** Downlink Frequency	
* 1 : 3760	* 21 : 11865
* 2 : 3855	* 22 : 11878
* 3 : 3920	* 23 : 11900
* 4 : 3984	* 24 : 11913
* 5 : 4016	* 25 : 11926
* 6 : 4034	* 26 : 11939
* 7 : 4080	* 27 : 11961
* 8 : 4120	* 28 : 11974
* 9 : 4140	* 29 : 11987
* 10 : 4180	* 30 : 12000
* 11 : 11717	* 31 : 12022
* 12 : 11730	* 32 : 12035
* 13 : 11743	* 33 : 12048
* 14 : 11756	* 34 : 12061
* 15 : 11778	* 35 : 12083
* 16 : 11791	* 36 : 12096
* 17 : 11804	* 37 : 12109
* 18 : 11817	* 38 : 12157
* 19 : 11839	* 39 : 12170
* 20 : 11852	* 40 : 12183

Satellite Name : GE 1 at 257° East (103° West)	
*** The number of Transponder : 21	
*** Downlink Frequency	
* 1 : 3760	* 11 : 11834

* 2 : 3780	* 12 : 11940
* 3 : 3800	* 13 : 12065
* 4 : 3840	* 14 : 12075
* 5 : 4060	* 15 : 12085
* 6 : 4100	* 16 : 12095
* 7 : 11812	* 17 : 12105
* 8 : 11818	* 18 : 12115
* 9 : 11823	* 19 : 12125
* 10 : 11827	* 20 : 12135
	* 21 : 12160

Satellite Name : DBS 1/2/3 - Spacenet 4 at 259° East (101° West)	
*** The number of Transponder : 0	
*** Downlink Frequency	

Satellite Name : Telstar 5 at 263° East (97° West)	
*** The number of Transponder : 20	
*** Downlink Frequency	
* 1 : 3740	* 11 : 11900
* 2 : 3760	* 12 : 11904
* 3 : 3780	* 13 : 11936
* 4 : 3800	* 14 : 11966
* 5 : 3940	* 15 : 11991
* 6 : 4060	* 16 : 12084
* 7 : 4100	* 17 : 12090
* 8 : 4160	* 18 : 12115
* 9 : 11748	* 19 : 12152
* 10 : 11874	* 20 : 12177

Satellite Name : Galaxy 7 at 269° East (91° West)	
*** The number of Transponder : 21	
*** Downlink Frequency	
* 1 : 3720	* 11 : 11780
* 2 : 3780	* 12 : 11810
* 3 : 3800	* 13 : 11840
* 4 : 3880	* 14 : 11870
* 5 : 3960	* 15 : 11900
* 6 : 4020	* 16 : 11930
* 7 : 4040	* 17 : 11960
* 8 : 4160	* 18 : 11990
* 9 : 4180	* 19 : 12080
* 10 : 11720	* 20 : 12110
	* 21 : 12140

Satellite Name : GE 2 at 275° East (85° West)	
*** The number of Transponder : 2	
*** Downlink Frequency	
* 1 : 3886	* 2 : 3987
Satellite Name : Echostar 3 at 298.5° East (61.5° West)	
*** The number of Transponder : 13	
*** Downlink Frequency	
* 1 : 12239	* 7 : 12414

* 2 : 12268	* 8 : 12443
* 3 : 12297	* 9 : 12472
* 4 : 12326	* 10 : 12501
* 5 : 12355	* 11 : 12530
* 6 : 12384	* 12 : 12559
	* 13 : 12574

Satellite Name : Panamsat 5 at 302° East (58° West)	
*** The number of Transponder : 27	
*** Downlink Frequency	
* 1 : 3760	* 14 : 4120
* 2 : 3795	* 15 : 4134
* 3 : 3800	* 16 : 10727
* 4 : 3840	* 17 : 10768
* 5 : 3880	* 18 : 10809
* 6 : 3909	* 19 : 10850
* 7 : 3915	* 20 : 10891
* 8 : 3920	* 21 : 10932
* 9 : 3934	* 22 : 11219
* 10 : 4000	* 23 : 11261
* 11 : 4040	* 24 : 11303
* 12 : 4064	* 25 : 11345
* 13 : 4111	* 26 : 11387
	* 27 : 11429

<<< Region : EUROPE

<<< The number of Satellite : 19

Satellite Name : Sirius 1/2 at 5° East	
*** The number of Transponder : 22	
*** Downlink Frequency	
* 1 : 11747	* 12 : 12453
* 2 : 12111	* 13 : 12590
* 3 : 12130	* 14 : 12600
* 4 : 12153	* 15 : 12608
* 5 : 12169	* 16 : 12618
* 6 : 12245	* 17 : 12632
* 7 : 12284	* 18 : 12634
* 8 : 12303	* 19 : 12641
* 9 : 12334	* 20 : 12659
* 10 : 12380	* 21 : 12674
* 11 : 12399	* 22 : 12677
Satellite Name : Eutelsat II F2 at 10° East	
*** The number of Transponder : 14	
*** Downlink Frequency	
* 1 : 11006	* 8 : 11061
* 2 : 11011	* 9 : 11130
* 3 : 11014	* 10 : 11135
* 4 : 11016	* 11 : 11581
* 5 : 11020	* 12 : 11608
* 6 : 11024	* 13 : 12576
* 7 : 11026	* 14 : 12712

Satellite Name : Hotbird 1-5 at 13° East	
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*** The number of Transponder : 69	
*** Downlink Frequency	
* 1 : 10719	* 35 : 11938
* 2 : 10722	* 36 : 11958
* 3 : 10758	* 37 : 11996
* 4 : 10775	* 38 : 12015
* 5 : 10796	* 39 : 12034
* 6 : 10834	* 40 : 12054
* 7 : 10873	* 41 : 12073
* 8 : 10892	* 42 : 12092
* 9 : 10911	* 43 : 12111
* 10 : 10914	* 44 : 12149
* 11 : 11034	* 45 : 12169
* 12 : 11054	* 46 : 12201
* 13 : 11131	* 47 : 12221
* 14 : 11205	* 48 : 12226
* 15 : 11242	* 49 : 12245
* 16 : 11304	* 50 : 12265
* 17 : 11331	* 51 : 12303
* 18 : 11338	* 52 : 12341
* 19 : 11371	* 53 : 12380
* 20 : 11422	* 54 : 12399
* 21 : 11457	* 55 : 12418
* 22 : 11464	* 56 : 12460
* 23 : 11548	* 57 : 12520
* 24 : 11642	* 58 : 12558
* 25 : 11662	* 59 : 12573
* 26 : 11681	* 60 : 12581
* 27 : 11766	* 61 : 12590
* 28 : 11804	* 62 : 12597
* 29 : 11823	* 63 : 12616
* 30 : 11843	* 64 : 12635
* 31 : 11862	* 65 : 12654
* 32 : 11881	* 66 : 12673
* 33 : 11900	* 67 : 12692
* 34 : 11919	* 68 : 12713
	* 69 : 12735

Satellite Name : Astra 1A 1B 1C 1D 1E 1F 1G at 19.2° East	
*** The number of Transponder : 46	
*** Downlink Frequency	
* 1 : 11720	* 24 : 12246
* 2 : 11740	* 25 : 12266
* 3 : 11758	* 26 : 12285
* 4 : 11778	* 27 : 12304
* 5 : 11798	* 28 : 12324
* 6 : 11817	* 29 : 12344
* 7 : 11837	* 30 : 12363
* 8 : 11856	* 31 : 12382
* 9 : 11895	* 32 : 12402
* 10 : 11934	* 33 : 12422
* 11 : 11973	* 34 : 12480
* 12 : 11992	* 35 : 12515
* 13 : 12012	* 36 : 12522
* 14 : 12032	* 37 : 12552
* 15 : 12051	* 38 : 12574
* 16 : 12070	* 39 : 12581

* 17 : 12090	* 40 : 12604
* 18 : 12129	* 41 : 12663
* 19 : 12148	* 42 : 12670
* 20 : 12168	* 43 : 12692
* 21 : 12188	* 44 : 12722
* 22 : 12207	* 45 : 11837
* 23 : 12226	* 46 : 12012

Satellite Name : Kopernikus 3 at 23.5° East	
*** The number of Transponder : 15	
*** Downlink Frequency	
* 1 : 11466	* 8 : 11650
* 2 : 11498	* 9 : 11680
* 3 : 11530	* 10 : 12524
* 4 : 11541	* 11 : 12559
* 5 : 11573	* 12 : 12610
* 6 : 11605	* 13 : 12658
* 7 : 11616	* 14 : 12692
	* 15 : 12725

Satellite Name : Arabsat 2A at 26° East	
*** The number of Transponder : 6	
*** Downlink Frequency	
* 1 : 3977	* 4 : 12505
* 2 : 4013	* 5 : 12563
* 3 : 4044	* 6 : 12605

Satellite Name : Gals 1/2 -Eutelsat II F3 - Most 1 - TDF 2 36° East	
*** The number of Transponder : 8	
*** Downlink Frequency	
* 1 : 11050	* 5 : 12399
* 2 : 11139	* 6 : 12508
* 3 : 12322	* 7 : 12516
* 4 : 12380	* 8 : 12534

Satellite Name : Turksat 1C at 42° East	
*** The number of Transponder : 19	
*** Downlink Frequency	
* 1 : 10980	* 10 : 11143
* 2 : 10986	* 11 : 11146
* 3 : 11014	* 12 : 11158
* 4 : 11020	* 13 : 11166
* 5 : 11041	* 14 : 11508
* 6 : 11046	* 15 : 11582
* 7 : 11068	* 16 : 11587
* 8 : 11129	* 17 : 11607
* 9 : 11138	* 18 : 11660
	* 19 : 11665

Satellite Name : PanAmSat 4 at 68.5° East	
*** The number of Transponder : 20	
*** Downlink Frequency	
* 1 : 3716	* 11 : 11464
* 2 : 3743	* 12 : 11584
* 3 : 3786	* 13 : 12517
* 4 : 3800	* 14 : 12544
* 5 : 3932	* 15 : 12577

* 6 : 3994	* 16 : 12604
* 7 : 4034	* 17 : 12637
* 8 : 4086	* 18 : 12664
* 9 : 4113	* 19 : 12729
* 10 : 4155	* 20 : 3971

Satellite Name : Panamsat 1 at 315° East (45° West)	
*** The number of Transponder : 7	
*** Downlink Frequency	
* 1 : 3883	* 4 : 11594
* 2 : 4058	* 5 : 11637
* 3 : 4080	* 6 : 11678
	* 7 : 11724
Satellite Name : Panamsat 6/6B/3R at 317° East (43° West)	
*** The number of Transponder : 34	
*** Downlink Frequency	
* 1 : 3707	* 18 : 10970
* 2 : 3716	* 19 : 11050
* 3 : 3735	* 20 : 11170
* 4 : 3743	* 21 : 11262
* 5 : 3785	* 22 : 11342
* 6 : 3846	* 23 : 11729
* 7 : 3863	* 24 : 11789
* 8 : 3872	* 25 : 11849
* 9 : 3936	* 26 : 11914
* 10 : 3958	* 27 : 11979
* 11 : 3966	* 28 : 12039
* 12 : 3991	* 29 : 12099
* 13 : 4026	* 30 : 12164
* 14 : 4046	* 31 : 12568
* 15 : 4106	* 32 : 12580
* 16 : 10722	* 33 : 12611
* 17 : 10802	* 34 : 12731

Satellite Name : Orion 1 - Columbia 515 at 322.5° East (37.5° West)	
*** The number of Transponder : 15	
*** Downlink Frequency	
* 1 : 11481	* 8 : 11622
* 2 : 11534	* 9 : 11672
* 3 : 11542	* 10 : 12187
* 4 : 11561	* 11 : 12607
* 5 : 11567	* 12 : 12650
* 6 : 11590	* 13 : 12705
* 7 : 11596	* 14 : 12732
	* 15 : 12734

Satellite Name : Intelsat 601 at 325.5° East (34.5° West)	
*** The number of Transponder : 1	
*** Downlink Frequency	
* 1 : 11158	

Satellite Name : Intelsat 801 at 328.5° East (31.5° West)	
*** The number of Transponder : 14	

*** Downlink Frequency	
* 1 : 3732	* 8 : 10999
* 2 : 10960	* 9 : 11007
* 3 : 10966	* 10 : 11016
* 4 : 10972	* 11 : 11025
* 5 : 10977	* 12 : 11060
* 6 : 10983	* 13 : 11627
* 7 : 10990	* 14 : 11640

Satellite Name : Hispasat 1A 1B at 330° East (30° West)	
*** The number of Transponder : 24	
*** Downlink Frequency	
* 1 : 11509	* 13 : 12226
* 2 : 11517	* 14 : 12380
* 3 : 11539	* 15 : 12456
* 4 : 11643	* 16 : 12545
* 5 : 11654	* 17 : 12549
* 6 : 11659	* 18 : 12591
* 7 : 11664	* 19 : 12631
* 8 : 11673	* 20 : 12655
* 9 : 11683	* 21 : 12666
* 10 : 12015	* 22 : 12671
* 11 : 12078	* 23 : 12673
* 12 : 12149	* 24 : 12711

Satellite Name : Intelsat 605 at 332.5° East (27.5° West)	
*** The number of Transponder : 14	
*** Downlink Frequency	
* 1 : 3715	* 8 : 11058
* 2 : 3762	* 9 : 11476
* 3 : 3970	* 10 : 11494
* 4 : 4000	* 11 : 11500
* 5 : 4047	* 12 : 11661
* 6 : 4080	* 13 : 11665
* 7 : 4090	* 14 : 11689

Satellite Name : NSS K at 338.5° East (21.5° West)	
*** The number of Transponder : 21	
*** Downlink Frequency	
* 1 : 3650	* 11 : 11494
* 2 : 3775	* 12 : 11550
* 3 : 3850	* 13 : 11558
* 4 : 3914	* 14 : 11567
* 5 : 4013	* 15 : 11590
* 6 : 4082	* 16 : 11862
* 7 : 4093	* 17 : 11870
* 8 : 4142	* 18 : 11880
* 9 : 11481	* 19 : 11892
* 10 : 11488	* 20 : 11910
	* 21 : 12616

Satellite Name : Amos 1 at 356° East (4° West)	
*** The number of Transponder : 7	
*** Downlink Frequency	

* 1 : 11094	* 4 : 11270
* 2 : 11159	* 5 : 11308
* 3 : 11224	* 6 : 11337
	* 7 : 11388

Satellite Name : Intelsat 707 at 359° East (1° West)	
*** The number of Transponder : 17	
*** Downlink Frequency	
* 1 : 3915	* 9 : 11015
* 2 : 3990	* 10 : 11107
* 3 : 4000	* 11 : 11174
* 4 : 4175	* 12 : 11458
* 5 : 4180	* 13 : 11514
* 6 : 10960	* 14 : 11540
* 7 : 10974	* 15 : 11592
* 8 : 11014	* 16 : 11679
	* 17 : 11691