

DST-400 UNIVERSAL REMOTE CONTROL



GETTING STARTED

Congratulations ! Your DST-400 universal remote control and TV Guide On Screen™ bring new convenience to television viewing. By pressing a few keys you can see what's on TV, select the program you want, set-up to record program on your VCR, and much more. The DST-400 also eliminates the frustration of having to use several remote controls. The DST-400 also has been designed to control most TV sets and VCRs in today's consumer market, as well as your cable terminal.

Before you start to program your remote control, please read the following important instructions.

- The DST-400 allows you to control multiple devices. The only time you will need to change modes is when you want to switch control to a different device.

For example, say you are using the remote to control your cable terminal and now you want to change the channel on your VCR. First press **VCR** and then press the desired channel number key(s). To return to controlling your cable terminal, press the **CABLE** key and then the desired function key. The remote control will stay in the cable mode until you press another mode key.

- The **AUX** mode can be used for a second TV or VCR, or for a digital audio tuner.

- The four mode keys (**AUX**, **VCR**, **CABLE**, and **TV**) also serve as indicator lights which show which device is being controlled and help guide you through programming the remote. Refer to the **Programming Your DST-400** section of this guide for details.

- You can program the DST-400 to control volume through your cable terminal, TV, or VCR without being in that mode. For example, you can control volume through your TV even through the remote is in the cable mode. You must program the remote in order to use the volume control feature. Refer to **Programming Volume Control**.

- The DST-400 also provides control of stand-alone digital audio tuners as well as services such as Music Choice™ (MC) and Digital Music Express™ (DMX).

BATTERY REPLACEMENT

If the batteries in your remote control need to be replaced, use two refresh 1.5 volt, AA batteries.

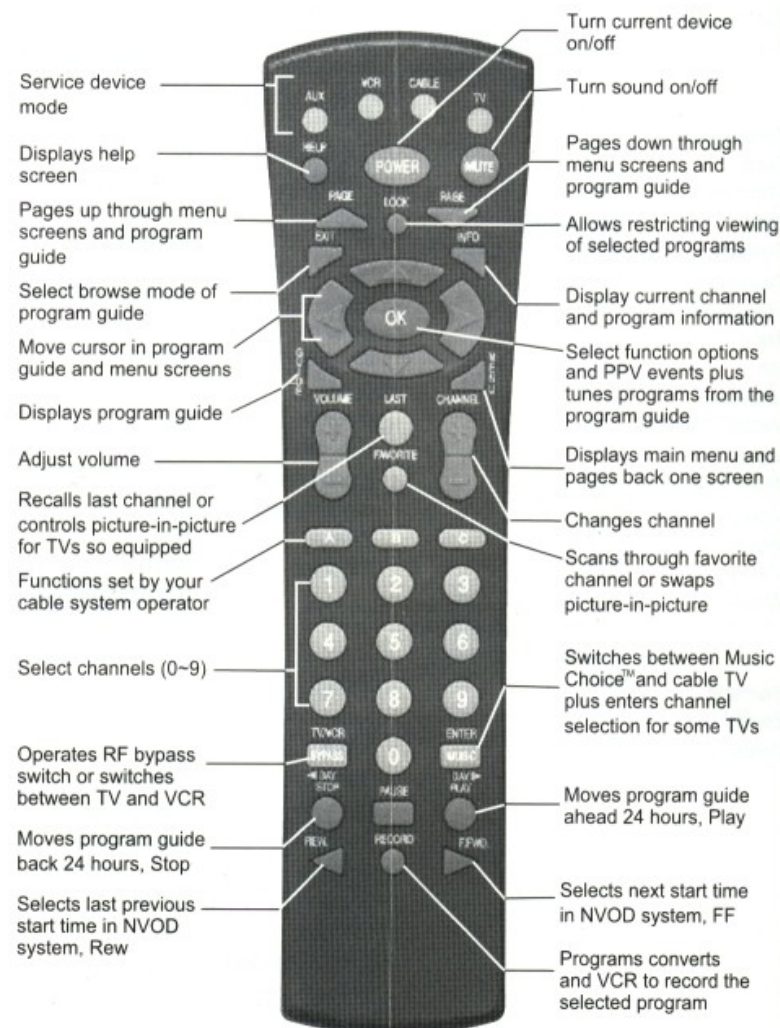
To install or replace the batteries, slide the battery cover on the back of the remote open and insert the batteries in the direction indicated. Then slide the battery door closed until it snaps into place.

Once you have programmed your remote control, you **will** not need to reprogram it after you take the batteries out to replace them.



THE KEYBOARD

The illustration below identifies the keys on your remote control ; see your cable terminal and digital audio user guides for further instructions. Note that in the TV and VCR modes, the **PAUSE**, **PALY**, **REW**, **REC**, and **FF** keys control your VCR.



PROGRAMMING YOUR DST-400

You are now ready to program the DST-400 remote control. Find the code for your cable terminal, TV set, VCR and the device you wish to assign to the AUX mode, in the **Device Codes** section at the end of this guide.

All codes are three-digit numbers. As you program for each mode, write down the correct codes in the spaces provided, for future use. **Many devices have more than one code listed. For these cases, start with the first code listed. For example, if you have a Sony TV, the first code is 000.**

Please note after entering a device code, the mode indicator should flash twice. If all your mode indicators shows one long flash, you have entered an invalid code, try again.

Also note that if it takes you longer than 10 seconds to press the next key in the programming sequence, the whole sequence will be erased and you will have to start over. This feature was added to prevent you from accidentally reprogramming the remote during regular viewing.

Programming for your terminal

The DST-400 is already programmed to control the General Instrument CFT2200 and DCT1000 cable terminals. If you have either of those terminals you can move on to **Programming for your TV**.

If you have some other cable terminal, look up the manufacturer in the **Device Codes** section and note the three-digit code.

On the remote control press and hold **CABLE** until the four mode indicators flash twice. Now enter the three-digit code. The **CABLE** indicator should flash twice; if it doesn't, press and hold **CABLE** as described above and try again. For example, if you have a General Instrument cable terminal (other than the CFT2200 or DCT1000), press and hold **CABLE** until the four mode indicators flash twice, then press **0-0-8**.

After you have entered the code, point the remote at your terminal and press **POWER**. If your terminal turns on or off, you have finished programming for the terminal. Note your code below.

Cable Terminal Code _____

If, after trying all of the codes listed, the terminal still does not turn on or off, refer to the **If the device does not respond** section of this guide.

PROGRAMMING FOR YOUR TV

Look up the manufacturer of your TV in the **Device Codes** section and note the three-digit code. On the remote control, press and hold **TV** until the four mode indicators flash twice. Now enter the three-digit code. The **TV** indicator should flash twice; if it doesn't, press **TV** as described above and try again. For example, if you have a Sony TV, press and hold **TV** until the four mode indicators flash twice, then press **0-0-0**.

After you have entered the code, point the remote at your TV and press **POWER**. If your TV turns on or off, you are finished programming for your TV. Note your TV set code below.

TV Code _____

If, after trying all of the codes listed, the TV still does not turn on or off, refer to the **If the device does not respond** section of this guide.

PROGRAMMING FOR YOUR VCR

Look up the manufacturer of your VCR in the **Device Codes** section and note the code. On the remote control, press and hold **VCR** until the four mode indicators flash twice. Now enter the three-digit code. The **VCR** indicator should flash twice; if it doesn't, press **TV** as described above and try again. For example, if you have a JVC model, press and hold **VCR** until the four mode indicators flash twice, then press **0-8-9**. After you have entered the code, point the remote at your VCR and press **POWER**. If your VCR turns on or off, you have successfully programmed for the VCR. Note your VCR code below.

VCR Code _____

If, after tried all the codes listed for your VCR and it still does not turn on or off, refer to the **If the device does not respond** section of this guide.

PROGRAMMING THE AUX MODE

You can program the AUX mode to control another device such as a second TV or VCR, or a digital audio tuner.

Suppose you want to control a second VCR. Look up the manufacturer of your VCR in the **Device Code** section and note the code.

On the remote control, press and hold **VCR** until the four mode indicators flash twice. Now press **9-9-2**. Next press and hold **AUX** until the four mode indicators flash twice. Finally, enter the three-digit code for your VCR. The **AUX** indicator should flash twice; if it doesn't, press **AUX** as described above and try again. For example, if you have a Mitsubishi VCR, press and hold **VCR** until the four mode indicators flash twice, then press **9-9-2-AUX** (hold until the four mode indicators flash twice) **-0-4-3**.

After you have entered the code, point the remote at your VCR and press **POWER**. If your VCR turns on or off, you have successfully programmed for the VCR. Note the code below.

AUX Code _____

If, you want to control a second TV, the key sequence is similar, except replace the **VCR** key with the **TV** key.

The sequence is **TV** (hold until the mode indicators flash twice) **-9-9-2-AUX** (hold until the indicators flash twice)-the device code for your TV.

If you have tried all the codes listed for the device you want to control and it still does not turn on or off, refer to the **If the device does not respond** section of this guide.

PROGRAMMING VOLUME CONTROL

You can program the DST-400 to control volume through your cable terminal, your TV, or your VCR, without being in that mode. You can

Change your volume control selection at any time without disturbing the codes you programmed.

To program for volume control, first press and hold the mode key of the device in which volume is to be controlled until the four mode indicators flash twice. Next press **9-9-3**. For example, if you want to control volume through your TV, press and hold **TV** until the four mode indicators flash twice, then press **9-9-3**.

IF THE DEVICE DOES NOT RESPOND

If the device you want to control does not respond, first try all of the manufacturer codes for the device. But manufacturers often put their brand name on devices made by others. For these cases, the DST-400 has a feature which will search the library of codes for you, and find the correct one.

CODE SEARCH

Suppose you can't seem to find the correct code for your TV. To start the search, turn on your TV and aim the remote control directly at it.

Press and hold **TV** until the four mode indicators blink twice, then press **9-9-1**. Now repeatedly press **POWER** until your TV turns off.

When the TV turns off, press **OK** to lock in the code. The **TV** indicator will flash twice to indicate that the code is accepted. The TV set code is now programmed into the remote control.

DEVICE CODES

To find your cable terminal, VCR, or AUX code, use the same procedure but substitute the **CABLE**, **VCR** or **AUX** key for the **TV** key.

If these procedures are successful you will be able to control the devices you programmed ; but you still have not discovered the device codes. If you want to record these codes for future reference, use the "**Blink Back**" feature described next.

CODE SEARCH USING "BLINK BACK"

To use "**Blink Back**" to find your programmed TV code, press and hold **TV** until the LED indicators flash twice, then press **9-9-0**. Now press "**1**" and count the number of times the LED indicator blinks. This number is the first digit of your TV code. If the indicator does not blink after any step of this procedure, the digit is "**0**".

Next, press the "**2**" key. The **TV** indicator will blink again. Count the number of blinks to find the second digit of the code. Finally, press "**3**". The number of blinks is the third and final digit of the code.

You can also find the programmed cable terminal, VCR, and AUX codes using the same procedure. But the beginning sequence is **CABLE** (hold for four blinks) **-9-9-0**, **VCR** (hold for four blinks) **-9-9-0**, or **AUX** (hold for four blinks) **-9-9-0**. Then use the **1,2**, and **3** keys as in the TV code search above.

CODES FOR CABLE TERMINALS

FOR TELEVISION VIEWING

ABC	000,001,003,004,005
Allegro	035
Color Voice	030,031
GE	036
General Instrument	000,001,002,004,005, 006,008,009,010,011, 013,022,023
Hamlin	040,041,042
Hitachi	001
Jerrold	000,001,002,004,005, 006,008,009,010,011, 022,023
Macom	028
Macom Satellite	045
Magnavox	038
Memorex	027
Oak	026,029
Paragon	027
Panasonic	016,039
Philips	030,031,032,033,034, 038
Pioneer	015,024,043
Pulsar	027
Rambrandt	001
RCA	039
Regal	040,041,042
Runco	027
Samsung	025,043
Scientific atlanta	012,017,018,019,020, 021
Signal	025
Signature	001
Sprucer	039
Starcom	000,005
Stargate	025
Televue	025
Tocom	002,003
Toshiba	027
United Cable	000
Universal	035
Viewstar	033,034,038
Zenith	027,037
Zenith Satellite	044

FOR DIGITAL AUDIO LISTENING

General Instrument
Jerrold
Starcom
DMX(Scientific Atlanta) 007

CODES FOR TELEVISION

A-Mark	003
Abex	017
Admiral	036
Adventura	021
Aiko	035
Akai	015,037
Alaron	115
Alleron	059,112
Ambassador	057
Anam	004,005,032,060
Anam National	104,050
AOC	003,010,015,062
Archer	003
Asho Text	084
Audiosonic	109
Audiovox	003,060
Belcor	010
Bell & Howell	007,044
Bradford	060
Brandt	109
Brockwood	010
Broksonic	003
Candle	015,021,029,063
Carver	027
CCE	079
Celebrity	000
Citizen	015,020,021,029,030, 035,063,075
Clairtone	062
Concerto	029
Contec	046,111,060,062
Craig	050,060
Crown	020,060
Curtis Mathes	015,020,030,044,092
CXC	060
Daewoo	010,020,105,031,107, 035,096
Daytron	010
Dumont	008,010
Dynatech	023
Electroband	000,062
Electrohome	085,090
Emerson	010,019,020,044,111, 057,058,059,060,061, 112,062,068,075,077, 047
Envision	015
Ferguson	109
Fusher	044,048
Fujitsu	059
Funai	059,060
Futuretech	060

GE	012,013,103,022,025, 104,058,072,074,077
GEC	
Gibraltar	008,010,015
GoldStar	001,002,010,015,017 020,029,109,058,090
Gradiente	088
Grundig	106
Grunpy	059,060
Hallmark	058
Harvard	032,060
Hitachi	017,019,029,109,040, 043,055,065,074,090,
Ima	060
Infinity	027
Janeil	021
JBL	027
JCB	000
Jensen	024
JVC	018,026,033,049,053, 061
Kamp	115
Kawasho	111,115,078
Kenwood	010,015
Kloss	102,021
KMC	
KTV	015,020,060,112,062, 075
Logik	007
Luxman	029
LXI	022,027,028,044,045, 058
M-Electronic	109
Magnavox	015,018,027,108,063, 066,086
Majestic	007
Marantz	015,027
Megatron	003,040,058
MEI	062
Memorex	007,029,042,044,058
MGA	010,015,042,110,058
Midland	008,017,020,022,025
Minutz	012
Mitsubishi	006,010,037,042,110, 058,069,080,082
Motorola	104,036
MTC	010,015,023,029,030, 107,062
Multitech	023,060
NAD	045,052,058
NEC	010,015,018,029,095
Nikko	015,035,058
Noblex	094

Nordmende	109
NTC	035
Onwa	060
Optimus	044,052
Optonica	036,051
Orion	068
Panasonic	025,027,104,064,071, 119,083
Penney	002,003,009,010,012, 013,015,017,020,022, 025,030,041,045,058, 118
Philco	010,015,027,108,117
Philips	027
Pilot	010,015,020
Pioneer	019,109,052
Portland	010,020,035
Priceclub	030
Prism	025
Proscan	022
Proton	003,016,058,097
Pulsar	008,010
Quasar	025,104,071
Radio Shark	010,017,020,051,060, 090
RCA	009,010,103,019,022, 034,091,073
Realistic	010,015,017,020,029, 044,051,058,060
Rhapsody	112,062,115
Runco	008,015,072
Saba	109
Sampo	015,017,020
Samsung	010,015,017,020,029, 030,058,079,120,093, 098
Sanyo	038,044,048,067,099
Scimitsu	010
Scotch	058
Scott	010,058,059,060,068, 118
Sears	022,027,029,028,041, 044,045,048,054,058, 059,076
Sharp	020,036,046,051,116, 076,086,100
Shogun	010
Signature	007
Simpson	063,113
Sony	000,101,039,081
Soundesign	058,059,060,063
Spectricon	003
Squareview	054

CODES FOR VCR

SSS	010,060	Action	071	Jensen	014	Quarter	018
Starlite	060	Advantz	074	JVC	089,014,029,046,047,078	Quartz	018,041
Supre - Macy	021	Advantura	000			Quasar	008
Supreme	000	Aiko	065	Kenwood	011,014,029,078	Radio Shack	000,010,072
Sylvania	015,027,108,085	Aiwa	000,080,083,099	KLH	031	Radix	010
Symphonic	054	Akai	014,021,042,095	Kodak	008,010	Rnadax	010
Tandy	036	American High	008	Kordon		RCA	015,027,038,040,045,064,085
Tatung	003,023,104,089	Asha	057	Lloyd	000	Realistic	000,008,010,018,019,020,028,057
Technics	025,071	Audiovox	010	Lloyds	048		
Techwood	025,029	Beaumark	057	Logik	031	Ricoh	007,059
Teknika	007,010,020,027,029,030,035,042,056,059,060,063	Broksonic	039,044,051,069,075	LXI	010	Runco	012
		Calix	010	Magnavox	008,012,032,037,090,040	Samsung	017,023,057
Telefunken	109	Canon	008,036			Sanky	012,020
Tera	016	Capehart	003	Magnon	057	Sansui	014,029,033,062
Thomson	109,114	Carver	032	Marantz	008,032	Sanyo	018,019,057,061,077
TMK	029,057,058	CCE	031,065	Marta	009	Scott	016,017,039,044,050,051,052
Toshiba	018,030,041,044,045	Citizen	010,065	Mathes			
Tosonic	062	Colt	031	Matsushita	008	Sears	008,010,015,018,019,025,026,038
Totevision	020	Craig	010,019,031,057,062	MEI	008		
Trical	046	Cutis	008,014,027	Memorex	000,008,010,012,018,019,020,057,061,070	Sharp	020,028
Ultra	087	Cybernex	023,057			Shintom	031
Universal	013	Daewoo	002,003,017,034,065	MGA	016	Shogun	023,057
Vector Research	015	Daytron	003	MGN Technology	057	Singer	031
Victor	026	Dynatech	000	Minolta	015,038	Sony	004,005,006,007,008,059,063
Video Concepts	037	Electrohome	010	Mitsubishi	016,029,043,095,084		
Vidikron	027,070	Electroponic	010	Motorola	008,020	STS	015
Viditech	010,058	Emerex	005	MTC	000,057	Sunpak	059
Viking	021	Emerson	000,001,009,010,016,030,035,039,044,048,049,051,052,065,068,069,075,087	Multitech	000,031	Sylvania	000,008,016,032,037,090
Wards	007,010,011,012,013,014,103,015,027,029,108,039,051,058,059,			NEC	011,013,014,022,029,033	Symphonic	000,072
						Tatung	014
Yamaha	010,015	Fisher	019,025	Nikko	010	Teac	000,014
Zenith	007,008	Fuji	006,008	Noblex	057	Technics	008,091,058
Zonda	003	Funai	000,072	Olympus	008,054	Teknika	000,008,010,024
		Garrard	000,072	Optimus	010,020,082	TMK	009,048,057
		GE	008,027,045	Optonica	028	Totevision	010,057
		Go Video	055,066,073	Orion	087	Toshiba	016,017,026,050,052,076
		GoldStar	010,011,086,088	Panasonic	008,036,091,053,054,094,058,060,096,098		
		Gradiente	000,081			Unitech	057
		Grundig	092	Penney	008,010,011,013,015,025,057	Vector	017
		Harley Davidson	000			Vector Research	011,013
		Harman	011	Pentax	015,038	Video Concepts	013,017,093
		Harwood	030,031	Philco	008	Videosonic	057
		Headquarter	018	Philips	008,028,032,090,079	Wards	000,008,015,019,020,028,031,040,052,057
		Hi-Q	019	Pilot	010		
		Hitachi	014,015,028,038,056,067,097	Pioneer	029	XR-1000	000,008,031
				Portland	003	Yamaha	011
				Protec	031	Zenith	006,007,012
				Pulsar	012,023		