Dell™ 4100MP Projector User's Guide

Notes, Notices, and Cautions

NOTE: A NOTE indicates important information that helps you make better use of your projector.

NOTICE: A NOTICE indicates either potential damage to hardware or loss of data and tells you how to avoid the problem.

CAUTION: A CAUTION indicates a potential for property damage, personal injury, or death.

Restrictions and Disclaimers

February 2004 Rev. A01-00

About Your Projector: Dell™ 4100MP Projector User's Guide

- Features
- Equipment
- Main Unit
- Control Panel
- Connection Ports
- Remote Control

Features

- Single chip 0.7" Texas Instruments DLP™ technology
- High contrast, double data rate (DDR) digital micro mirror device
- True XGA (1024 x 768) native resolution
- 6.5 lbs (2.95 kg) lightweight compact design
- 2200 max. ANSI lumens brightness *
- 2000:1 full on / full off contrast ratio
- 1.2x manual zoom lens
- Built in 2W stereo speakers
- Auto image re-sizing (Auto-Sync) to 1024x 768 full screen with scaling compression compatibility for UXGA, SXGA+, SXGA, XGA, SVGA, VGA, MAC
- Great connectivity – Multiple PC and High Definition inputs (via M1-DA and RGB), S-Video, Composite Video (RCA), Component Video, and RS232
- Preset and user defined video modes for optimum video and graphic settings
- PIP (Picture In Picture) for dual signal source display
- LCD display for real time projector status
- Self-diagnostic for video troubleshooting
- State-of-the-art motion adaptive hardware de-interlacing with 3:2 and 2:2 pull down
- 250-watt user-replaceable UHP 1500-hour lamp
- Eco Mode allows end user to extend lamp life to 3000 hours by reducing the lamp wattage and brightness.
- Compatibility with Macintosh® computers
- Compatibility with NTSC, NTSC4.43, PAL, PAL-M, PAL-N, SECAM, and HDTV (1080i, 720p, 576i/p, 480i/p)
- High-definition TV compatibility
- Full featured RF Cordless remote control with mouse and laser pointer
- User-friendly, multi-language on-screen display (OSD)
- Advanced horizontal and auto vertical electronic keystone correction
- Semi-auto electronic keystone correction for image distortion
- Remote projector control from PC via RS232 port
- User-friendly control panel with backlight buttons
- Hard foam drop tested carrying case included
- Plug and play for photo image display from the option for memory card reader (Memory card module sold separately)
- Smart lens cap power management (Patent pending)

*Based on ANSI/NAPM IT7.228-1997 tests of 100 units, December 2003, with average ANSI Lumens 2000. Bulb brightness degrades with usage. Dell recommends replacing your bulb after 1500 hours usage.

Equipment

Your projector comes with all the items shown below. Ensure that you have all the items, and contact Dell if anything is missing.

Main unit	**3.0m Power cord**	**1.8m M1-A to D-sub/USB cable**
2.0m S-video cable	**1.8m M1-A to HDTV cable**	**1.8m Composite Video cable**
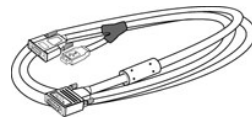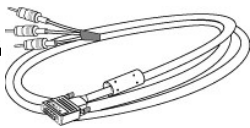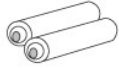
Batteries (2)   **1.8m RCA to Audio cable**   **1.8m 1/8" Mini Phone Jack cable**

Remote control   *Dell 4100MP Projector User's Guide*   *Dell 4100MP Projector Quick Start Card*

Warranty Guide   **Owner's Manual**   **Carrying case**

Main Unit
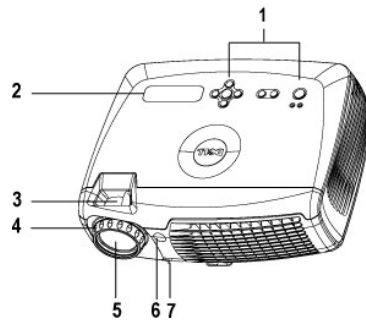
1	Control panel
2	LCD status display
3	Zoom tab
4	Focus ring
5	Lens
6	IR Remote control receiver
7	Elevator button

Control Panel
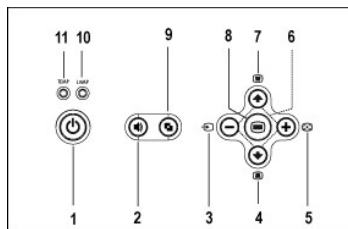
1	Power button
2	Volume key
3	Source
4	Keystone adjustment
5	Auto Adjust (Re-sync)
6	Four directional keys
7	Keystone adjustment
8	Menu
9	Video Mode button
10	Lamp warning light
11	Temperature warning light

Connection Ports
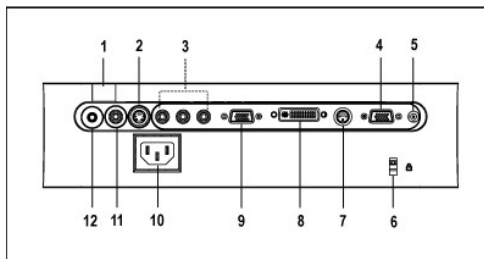
1	IR receiver
2	S-video connector
3	Component RCA input connector
4	VGA Out (monitor loop-through)
5	12 Volt DC relay output
6	Kensington lock hole
7	RS232 connector
8	M1-DA connector
9	VGA In (D-sub) connector
10	Power cord connector
11	Video input connector
12	Audio input connector

Remote Control
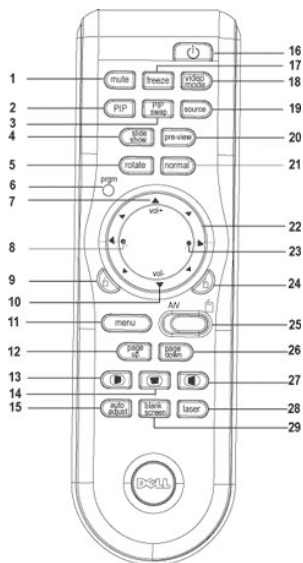
1	**Mute** button	16	**Power** button
2	**PIP** (Picture In Picture) button	17	**Freeze** button
3	**PIP swap** button	18	**Video Mode** button
4	**Slide show** button	19	**Source** button
5	**Rotate** button	20	**Pre-view**
6	**Program** button	21	**Normal** button
7	**Volume+** button	22	**Four Directional pad**
8	**Zoom In**	23	**Zoom out**
9	**Left click**	24	**Right click**
10	**Volume-** button	25	**AV mode/ PC mode switch**
11	**Menu** button	26	**Page down** button
12	**Page up** button	27	**Horizontal Keystone+** button
13	**Horizontal Keystone-** button	28	**Laser** button
14	**Auto vertical Keystone correction** button	29	**Blank Screen** button
15	**Auto adjust** (re-sync) button		

⚠ **CAUTION: The remote control has a Class II laser that emits radiation. To reduce the risk of injury to the eyes, do not look directly into the laser light on the remote control and do not point the laser light into anyone's eyes.**

Battery Disposal: Your projector remote control uses zinc-manganese batteries. If you need to replace the batteries, see your *Dell 4100MP Projector Quick Start Card.*

Do not dispose of used batteries along with household waste. Contact your local waste disposal agency for the address of the nearest battery deposit site.

Contacting Dell

To contact Dell electronically, you can access the following websites:

ι www.dell.com
ι support.dell.com (technical support)
ι premiersupport.dell.com (technical support for educational, government, healthcare, and medium/large business customers, including Premier, Platinum, and Gold customers)

For specific web address for your country, find the appropriate country section in the table below.

NOTE: Toll-free numbers are for use within the country for which they are listed.

When you need to contact Dell, use the electronic addresses, telephone numbers, and codes provided in the following table. If you need assistance in determining which codes to use, contact a local or an international operator.

Country (City) International Access Code Country Code City Code	Department Name or Service Area, Website and E-mail Address	Area Code	Local Numbers,and Toll-Free Numbers
Anguilla	General Support		toll free:800-335-0031
Antigua and Barbuda	General Support		1-800-805-5924
Argentina (Buenos Aires)	Technical Support and Customer Care		toll free: 0800 444 0733
International Access Code:00	Sales		toll free: 0810 444 3355
Country Code:54	Tech Support Fax	11	4515-7139
City Code:11	Customer Care Fax	11	4515-7138
	Website: **www.dell.com.ar**		toll-free:800-1578
Aruba	General Support		
Australia (Sydney)	E-mail (Australia): au_tech_support@dell.com		
International Access Code:0011	E-mail (New Zealand): nz_tech_support@dell.com		
Country Code:61	Home and Small Business		1-300-65-55-33
	Government and Business		toll free: 1-800-633-559
City Code:2	Preferred Accounts Division (PAD)		toll free: 1-800-060-889
	Customer Care		toll free: 1-800-819-339
	Corporate Sales		toll free: 1-800-808-385
	Transaction Sales		toll free: 1-800-808-312
	Fax		toll free: 1-800-818-341
Austria (Vienna)	Switchboard	01	491 040
International Access Code:900	Home/Small Business Sales	01	795676-02
	Home/Small Business Fax	01	795676-05
Country Code:43	Home/Small Business Customer Care	01	795676-03
City Code:1	Preferred Accounts/Corporate Customer Care		0660-8056
	Home/Small Business Technical Support	01	795676-04
	Preferred Accounts/Corporate Technical Support		0660-8779
	Website: **support.euro.dell.com**		
	E-mail: tech_support_central_europe@dell.com		
Bahamas	General Support		toll-free:1-866-278-6818
Barbados	General Support		1-800-534-3142
Belgium (Brussels)	Technical Support	02	481 92 88
International Access Code:00	Customer Care	02	481 91 19
	Home/Small Business Sales		toll free: 0800 16884
Country Code:32	Corporate Sales	02	481 91 00
City Code:2	Fax	02	481 92 99
	Switchboard	02	481 91 00

	Website: **support.euro.dell.com**		
	E-mail: tech_be@dell.com		
	E-mail for French Speaking Customers: **support.euro.dell.com/be/fr/emaildell/**		
Bermuda	General Support		1-800-890-0748
Bolivia	General Support		toll free: 800-10-0238
Brazil	Customer Support, Technical Support		toll free: 0800 90 3355
International Access Code:00	Technical Support Fax	51	481-5470
Country Code:55	Customer Care Fax	51	481-5480
City Code:51	Sales		toll free: 0800 90 3390
	Website: **www.dell.com/br**		
British Virgin Islands	General Support		toll-free:1-866-278-6820
Brunei	General Support	604	633 4966
Country Code:673	Customer Service (Penang, Malaysia)	604	633 4949
	Transaction Sales (Penang, Malaysia)	604	633 4955
Canada (North York, Ontario)	Automated Order-Status System		toll free: 1-800-433-9014
International Access Code:011	AutoTech (Automated technical support)		toll free: 1-800-247-9362
	Customer Care Home & Home Office & Small Business		1-800-847-4096
	Customer Care Medium, Large, Commercial, Government (100+ Employees)		1-800-326-9463
	Technical Support Home & Home Office & Small Business		1-800-847-4096
	Technical Support Medium, Large, Commercial, Government (100+ Employees)		1-800-387-5757
	Sales (direct-from outside Toronto)		1-800-387-5752
	Sales (direct-from within Toronto)		416-758-2200
	Sales (federal government, education, and medical)		1-800-567-7542
	Tech Fax		toll free: 1-800-950-1329
Cayman Islands	General Support		1-800-805-7541
Chile (Santiago)	Sales, Customer Support, and Technical Support		toll free: 1230-020-4823
Country Code:56			
City Code:2			
China (Xiamen)	Tech Support website: support.ap.dell.com/china		
Country Code:86	Tech Support E-mail: cn_support@dell.com		
City Code:592	Tech Support Fax		818-1350
	Projector Technical Support Phone		toll free: 800 858 2920
	Customer Experience		toll free: 800 858 2060
	Home and Small Business		toll free: 800 858 2222
	Preferred Accounts Division		toll free: 800 858 2062
	Large Corporate Accounts North		toll free: 800 858 2999
	Large Corporate Accounts North Government and Education		toll free: 800 858 2955
	Large Corporate Accounts East		toll free: 800 858 2020
	Large Corporate Accounts East Government and Education		toll free: 800 858 2669
	Large Corporate Accounts Queue Team		toll free: 800 858 2572
	Large Corporate Accounts South		toll free: 800 858 2355
	Large Corporate Accounts West		toll free: 800 858 2811
	Large Corporate Accounts GCP		toll free: 800 858 2055
	Large Corporate Account Key Accounts		toll-free:800-858-2628
	Large Corporate Accounts Spare Parts		toll free: 800-858--2621
Colombia	General Support		980-9-15-3978
Costa Rica	General Support		0800-012-0435

Czech Republic (Prague)	Technical Support	02	22 83 27 27
International Access Code:00	Customer Care	02	22 83 27 11
	Fax	02	22 83 27 14
Country Code:420	TechFax	02	22 83 27 28
City Code:2	Switchboard	02	22 83 27 11
	Website: support.euro.dell.com		
	E-mail: czech_dell@dell.com		
Denmark (Horsholm)	Technical Support		70230182
International Access Code:00	Customer Care(Relational)		70230184
	Home/Small Business Customer Care		32875505
Country Code:45	Switchboard (Relational)		32871200
	Fax Switchboard (Relational)		32871201
	Switchboard (Home/Small Business)		32875000
	Fax Switchboard (Home/Small Business)		32875001
	Website: **support.euro.dell.com**		
	E-mail Support (portable computers): den_nbk_support@dell.com		
	E-mail Support (desktop computers): den_support@dell.com		
	E-mail Support (servers): Nordic_server_support@dell.com		
Dominica	General Support		toll free: 1-866-278-6821
Dominican Republic	General Support		toll free: 1-800-156-1588
Ecuador	General Support		toll-free 999-119
El Salvador	General Support		01-889-753-0777
Finland (Helsinki)	Technical Support	09	253 313 60
International Access Code:990	Technical Support Fax	09	253 313 81
	Relational Customer Care	09	253 313 38
Country Code:358	Home/Small Business Customer Care	09	693 791 94
City Code:9	Fax	09	253 313 99
	Switchboard	09	253 313 00
	Website: **support.euro.dell.com**		
	E-mail: fin_support@dell.com		
France (Paris) (Montpellier)	**Home and Small Business**		
International Access Code:00	Technical Support	0825	387 270
	Customer Care	0825	823 833
Country Code:33	Switchboard	0825	004700
City Code:(1)(4)	Switchboard (calls from outside of France)	04	99 75 40 00
	Sales	0825	004 700
	Fax (calls from outside of France)	04	99 75 40 001
	Website: **support.euro.dell.com**		
	E-mail: **support.euro.dell.com/fr/fr/emaildell/**		
	Corporate		
	Technical Support	0825	004 719
	Customer Care	0825	338 339
	Fax	01	55 94 71 01
	Switchboard	01	55 94 71 00
	Sales	01	55 94 71 00
Germany (Langen) International Access Code:00 Country Code:49	Technical Support	06103	766-7200
	Home/Small Business Customer Care		0180-5-224 400
	Global Segment Customer Care	06103	766-9570
	Preferred Accounts Customer Care	06103	766-9420
	Large Accounts Customer Care	06103	766-9560
	Public Accounts Customer Care	06103	766-9555
	Switchboard	06103	766-7000

	Website: **support.euro.dell.com**		
	E-mail: tech_support_central_europe@dell.com		
Grenada	General Support		toll free:1-866-540-3355
Guatemala	General Support		1-800-999-0136
Guyana	General Support		toll free:1-877-440-6511
Hong Kong	Technical Support (Dimension™ and Inspiron™)		296-93188
	Technical Support (OptiPlex™, Latitude™, and Dell Precision™)		296-93191
International Access Code:001	Customer Service (non-technical, post-sales issues)		800-93-8291
	Transaction Sales		toll free: 800 96 4109
Country Code:852	Large Corporate Accounts HK		toll free: 800 96 4108
	Large Corporate Accounts GCP HK		toll free: 800 90 3708
India	Technical Support		1600-33-8045
	Sales		1600-33-8044
Ireland (Cherrywood)	Ireland Technical Support	1850	543 543
	UK Technical Support (dial within UK only)	1870	908 0800
International Access Code:16	Home User Customer Care	01	204 4095
	Small Business Customer Care	01	204 4444
Country Code:353	Corporate Customer Care	01	204 4003
	UK Customer Care (dial number within UK only)	0870	906 0010
	Ireland Sales	01	204 4444
	UK Sales (dial within UK only)	0870	907 4000
	Sales Fax	01	204 0144
	Fax	01	204 5960
	Switchboard	01	204 4444
	Website: **support.euro.dell.com**		
	E-mail: dell_direct_support@dell.com		
Italy (Milan)	**Home and Small Business**		
International Access Code:00	Technical Support	02	577 826 90
	Customer Care	02	696 821 14
Country Code:39	Fax	02	696 821 13
City Code:2	Switchboard	02	696 821 12
	Website: **support.euro.dell.com**		
	E-mail: **support.euro.dell.com/it/it/emaildell/**		
	Corporate		
	Technical Support	02	577 826 90
	Customer Care	02	577 825 55
	Fax	02	577 035 30
	Switchboard	02	577 821
	Website: **support.euro.dell.com**		
	E-mail: support.euro.dell.com/it/it/emaildell/		
Jamaica	General Support (dial from within Jamaica only)		1-800-404-9205
Japan (Kawasaki)	Web site: **support.jp.dell.com**		
International Access Code:001	Technical Support	44	toll free: 0120-981-690
	Technical Support Outside of Japan	44	556-3468
Country Code:81	Customer Care	44	556-4240
Korea (Seoul)	Technical Support		toll free: 080-200-3800
International Access Code:001	Sales		toll free: 080-200-3600
	Customer Service (Penang, Malaysia)		toll free: 604-633-4949
Country Code:82	Customer Service (Seoul, Korea)		080-200-3800
City Code:2	Fax		2194-6202
	Switchboard		2194-6000

Latin America	Customer Technical Support (Austin, Texas, U.S.A.)	512	728-4093
	Customer Service (Austin, Texas, U.S.A.)	512	728-3619
	Fax (Technical Support and Customer Service) (Austin, Texas, U.S.A.)	512	728-3883
	Sales (Austin, Texas, U.S.A.)	512	728-4397
	Sales Fax (Austin, Texas, U.S.A.)	512	728-4600 or 728-3772
Luxembourg International Access Code:00 Country Code:352	Technical Support (Brussels, Belgium)	02	481 92 88
	Home/Small Business Sales (Brussels, Belgium)		toll free: 080016884
	Corporate Sales (Brussels, Belgium)	02	481 91 00
	Customer Care (Brussels, Belgium)	02	481 91 19
	Switchboard (Brussels, Belgium)	02	481 91 00
	Fax (Brussels, Belgium)	02	481 92 99
	Website: **support.euro.dell.com**		
	E-mail: tech_be@dell.com		
Macao Country Code:853	Technical Support		toll free: 0800 582
	Customer Service (Penang, Malaysia)		604 633 4949
	Transaction Sales		toll free: 0800 581
Malaysia (Penang) International Access Code:00 Country Code:60 City Code: 4	Technical Support		toll free: 1 800 888 298
	Customer Service	4	633 4949
	Transaction Sales		toll free: 1 800 888 202
	Corporate Sales		toll free: 1 800 888 213
Mexico International Access Code:00 Country Code:52	Customer Technical Support		001-877-384-8979 or 001-877-269-3383
	Sales		50-81-8800 or 01-800-888-3355
	Customer Service		001-877-384-8979 or 001-877-269-3383
	Main		50-81-8800 or 01-800-888-3355
Montserrat	General Support		toll free:1-866-278- 6822
Netherlands Antilles	General Support		001-800-882-1519
Netherlands (Amsterdam) International Access Code:00 Country Code:31 City Code:20	Technical Support	20	674 4500
	Home/Small and Medium Business	20	674 5500
	Home/Small and Medium Business Fax	20	674 4775
	Home/Small and Medium Business Customer Care	20	674 4200
	Corporate	20	674 5000
	Corporate Fax	20	674 4779
	Corporate Customer Care	20	674 4325
	Website: **support.euro.dell.com**		
	E-mail: **support.euro.dell.com/nl/nl/emaildell/**		
New Zealand	E-mail (New Zealand): nz_tech_support@dell.com		
	E-mail (Australia): au_tech_support@dell.com		
	Home and Small Business		0800 446 255
	Government and Business		0800 444 617
	Sales		0800 441 567
	Fax		0800 441 566
Nicaragua	General Support		001-800-220-1006
Norway (Lysaker) International Access Code:00 Country Code:47	Technical Support		671 16882
	Relational Customer Care		671 17514
	Home/Small Business Customer Care		231 62298
	Switchboard		671 16800

	Fax Switchboard		671 16865
	Website: **support.euro.dell.com**		
	E-mail Support (portable computers): nor_nbk_support@dell.com		
	E-mail Support (desktop computers): nor_support@dell.com		
	E-mail Support (servers): nordic_server_support@dell.com		
Panama	General Support		001-800-507-0962
Peru	General Support		0800-50-669
Poland (Warsaw)	Customer Service Phone	22	57 95 700
International Access Code:011	Customer Care	22	57 95 999
	Sales	22	57 95 750
Country Code:48	Switchboard	22	57 95 999
	Customer Service Fax	22	57 95 806
	Reception Desk Fax	22	57 95 998
	Website: **support.euro.dell.com**		
	E-mail: pl_support_tech@dell.com		
Portugal	Technical Support	35	800 834 077
International Access Code:00	Customer Care		800 300 415 or 800 834 075
Country Code:35	Sales		800 300 410 or 800 300 411 or 800 300 412 or 121 422 07 10
	Fax	35	121 424 01 12
	E-mail: support.euro.dell.com/es/es/emaildell/		
Puerto Rico	General Support		1-800-805-7545
St. Kitts and Nevis	General Support		toll free:1-877-441-4731
St. Lucia	General Support		1-800-882-1521
St. Vincent and the Grenadines	General Support		toll free:1-877-441-4740
Singapore (Singapore)	Technical Support		toll free: 800 6011 051
International Access Code:005	Customer Service (Penang, Malaysia)	604	633 4949
Country Code:65	Transaction Sales		toll free: 800 6011 054
	Corporate Sales		toll free: 800 6011 053
South Africa (Johannesburg)	Technical Support	011	709 7710
International Access Code:09/091	Customer Care	011	709 7707
Country Code:27	Sales	011	709 7700
	Fax	011	706 0495
City Code:11	Switchboard	011	709 7700
	Website: **support.euro.dell.com**		
	E-mail: dell_za_support@dell.com		
Southeast Asian/Pacific Countries	Customer Technical Support, Customer Service, and Sales (Penang, Malaysia)	604	633-4810
Spain (Madrid)	**Home and Small Business**		
International Access Code:00	Technical Support	91	902 100 130
	Customer Care	91	902 118 540
Country Code:34	Sales	91	902 118 541
	Switchboard	91	902 118 541
City Code:91	Fax	91	902 118 539
	Website: **support.euro.dell.com**		
	E-mail: support.euro.dell.com/es/es/emaildell/		
	Corporate		
	Technical Support	91	902 100 130
	Customer Care	91	902 118 546
	Switchboard	91	722 92 00
	Fax	91	722 95 83

	Website: **support.euro.dell.com**		
	E-mail: support.euro.dell.com/es/es/emaildell/		
Sweden (Upplands Vasby) International Access Code:00 Country Code:46 City Code:8	Technical Support	08	590 05 199
	Relational Customer Care	08	590 05 642
	Home/Small Business Customer Care	08	587 70 527
	Employee Purchase Program (EPP) Support		20 140 14 44
	Fax Technical Support	08	590 05 594
	Sales	08	590 05 185
	Website: **support.euro.dell.com**		
	E-mail: swe_support@dell.com		
	E-mail Support for Latitude™ and Inspiron™: Swe-nbk_kats@dell.com		
	E-mail Support for OptiPlex: Swe_kats@dell.com		
	E-mail Support for Servers: nordic_server_support@dell.com		
Switzerland (Geneva) International Access Code:00 Country Code:41 City Code:22	Technical Support (Home and Small Business)	22	0844 811 411
	Technical Support (Corporate)	22	0844 822 844
	Customer Care (Home and Small Business)	22	0848 802 202
	Customer Care(Corporate)		0848 821 721
	Switchboard	22	799 01 01
	Fax	22	799 01 90
	Website: **support.euro.dell.com**		
	E-mail:swisstech@dell.com		
	E-mail for French-speaking HSB and Corporate Customers: **support.euro.dell.com/ch/fr/emaildell/**		
Taiwan International Access Code:002 Country Code:886	Technical Support (portable and desktop computers)		toll free: 00801 86 1011
	Technical Support (Servers)		toll free: 0080 60 1256
	Transaction Sales		toll free:0800 651 228 or 0800 33 556
	Corporate Sales		toll free: 0080 651 227/ 0800 33 555
Thailand International Access Code:001 Country Code:66	Technical Support		toll free: 088 006 007
	Customer Service (Penang, Malaysia)	604	633 4949
	Sales		toll free: 088 006 009
Trinidad and Tobago	General Support		1-800-805-8035
Turks and Caicos Islands	General Support		toll free:1-866-540-3355
U.K. (Bracknell) International Access Code:44 Country Code:44	Technical Support (Corporate/Preferred Accounts/PAD [1000+ employees])	0870	908 0500
	Technical Support (Direct/PAD and general)	0870	908 0800
	Global Accounts Customer Care	01344	373 185 or 373 186
	Corporate Customer Care	0870	908 0500
	Preferred Accounts (500-5000 employees) Customer Care	01344	373 196
	Central Government Customer Care	01344	373 193
	Local Government & Education Customer Care	01344	373 199
	Health Customer Care	01344	373 194
	Home/Small Business Sales	0870	907 4000
	Home/Small Business Customer Care	0870	906 0010
	Corporate/Public Sector Sales	01344	860 456
	Website: **support.euro.dell.com**		
	Customer Care website: **dell.co.uk/lca/customerservices**		
	E-mail: dell_direct_support@dell.com		
Uruguay	General Support		toll free:000-413-598-2521
U.S.A. (Austin, Texas)	Automated Order-Status System		toll free: 1-800-433-9014

International Access Code:011 Country Code:1	AutoTech (portable and desktop computers)		toll free: 1-800-247-9362
	Projectors Technical Support		toll free: 1-877-459-7298
	Customer Service		toll free: 1-800-624-9897
	Dell Sales		toll free: 1-800-289-3355 or toll free: 1-800-879-3355
	Dell Outlet Store (Dell refurbished computers)		toll free: 1-888-798-7561
	Software and Peripherals Sales		toll free: 1-800-671-3355
	Spare Parts Sales		toll free: 1-800-357-3355
	Extended Service and Warranty Sales		toll free: 1-800-247-4618
	Fax		toll free: 1-800-727-8320
	Dell Services for the Deaf, Hard-of-Hearing, or Speech-Impaired		toll free: 1-877-DELLTTY (1-877-335-5889)
U.S. Virgin Islands	General Support		1-877-673-3355
Venezuela	General Support		8001-3605

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Installation: Dell™ 4100MP Projector User's Guide

● Connecting the Projector
● Powering On/Off the Projector
● Adjusting the Projected Image
● Changing the Lamp
● Installing the Card Reader (User purchasing option)

Connecting the Projector

A. To Computer: There are two possible methods of connecting to a computer.

1. Connecting with M1-A to D-sub/USB cable:
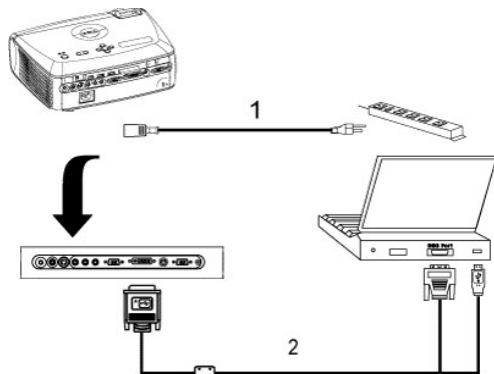
1	Power cord
2	M1-A to D-sub/USB cable

2. Connecting with D-sub to D-sub cable:
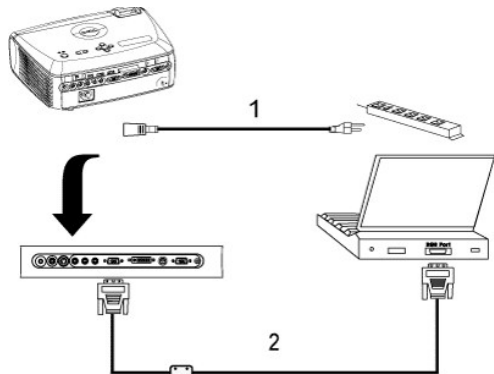
1	Power cord
2	D-sub to D-sub cable

B. To DVD Player: There are three possible methods of connecting to a DVD player.

1. Connecting with component cable: There are three possible methods of using component cable for connecting to a DVD player.

1a) Connecting with M1-A to HDTV cable:
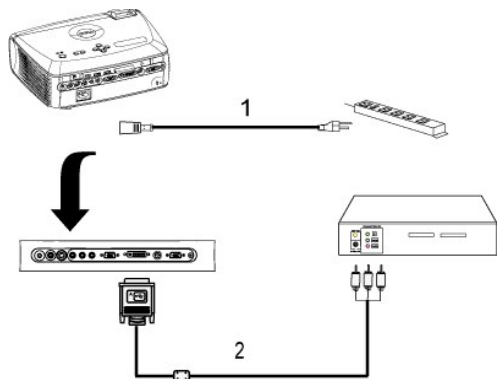
1	Power cord
2	M1-A to HDTV cable

1b) Connecting with D-sub to YPbPr cable:
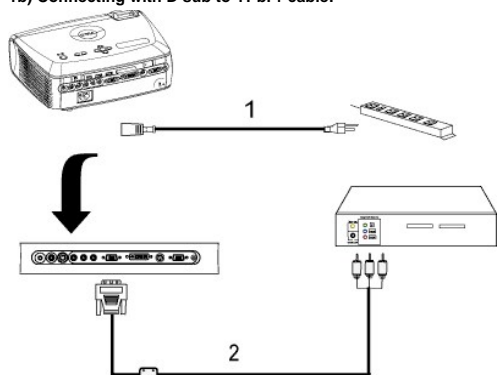
1	Power cord
2	D-sub to YPbPr cable

1c) Connecting with RCA to RCA cable:
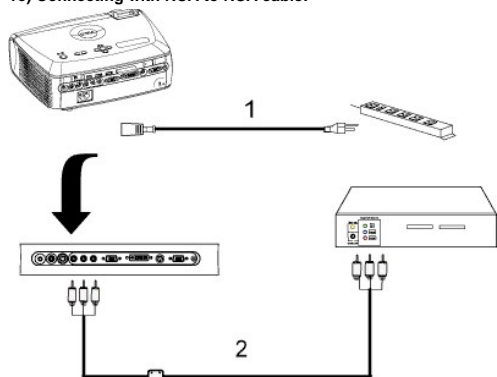
1	Power cord
2	RCA to RCA component cable

2. Connecting with S-video cable:

1	Power cord
2	S-video cable
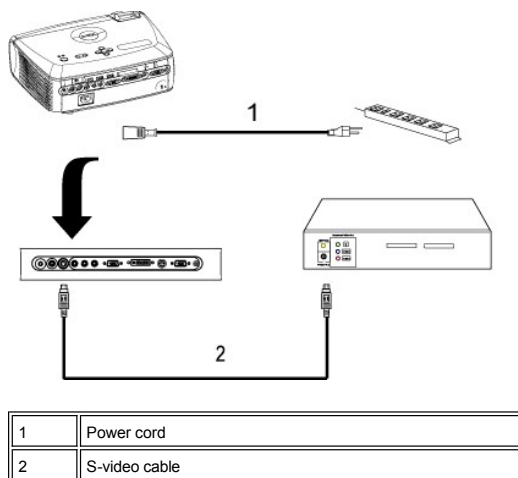
3. Connecting with composite cable:

1	Power cord
2	Composite video cable
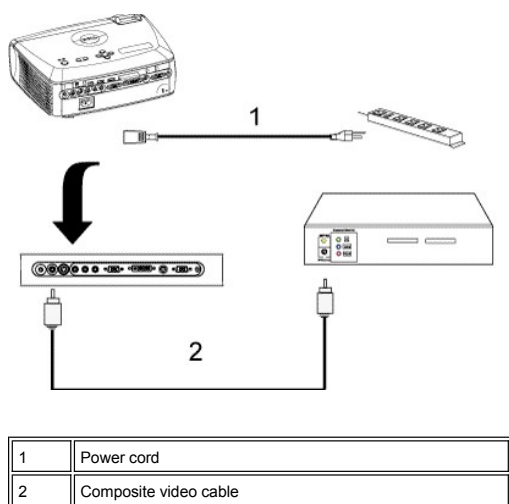
C. Professional Installation Options:

1.Installation for Driving Automatic Screen

1	Power cord
2	12V DC power cord
3	Automatic Screen
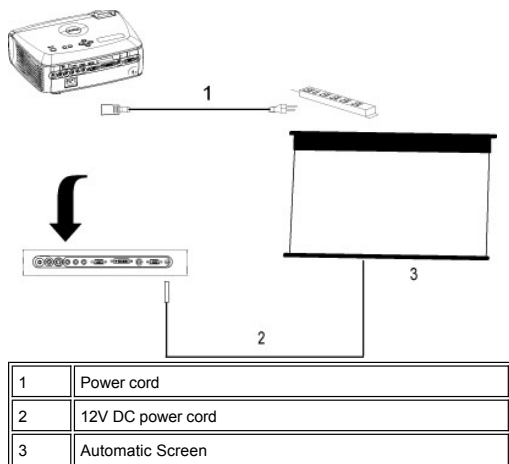
2.Installation for wired RS232 remote control: There are two possible ways to connect with RS232 cable.

1a) Connection with PC:
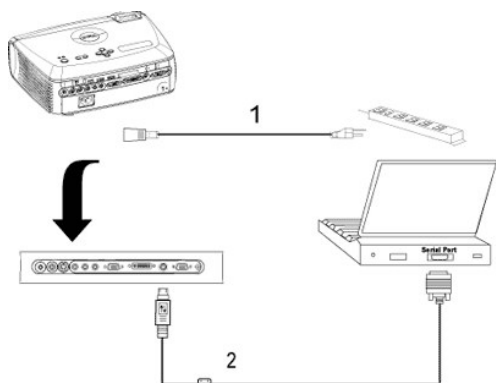
1	Power cord
2	RS232 cable

1b) Connection with Commercial RS232 control box:
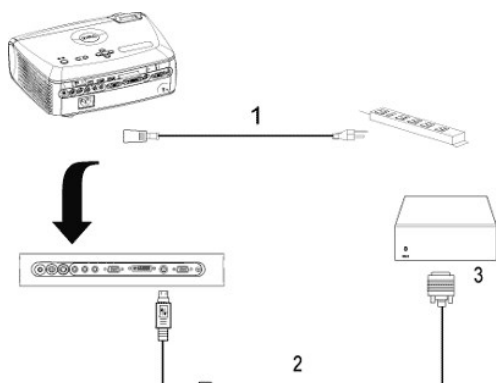
1	Power cord
2	RS232 cable
3	Commercial RS232 control box

Note: RS232 cable not provided by Dell. Consult professional installer for cable and RS232 remote control software. Refer to RS232 pin assignment and commands.

Powering On/Off the Projector

Powering On the Projector

NOTE: Turn on the projector before you turn on the source.

1. Ensure that the lens cap has been removed.
2. Ensure that the power cord and appropriate signal cable(s) are securely connected. The power button light will blink blue.
3. Press the power button to turn on the projector. The Dell logo will be displayed for 30 seconds.
4. Turn on your source (computer, notebook, DVD, etc.). The projector automatically detects your source.

- If the "Searching for signal..." message appears on the screen, ensure that the appropriate signal cable(s) are securely connected.
- If you are connecting multiple sources to the projector simultaneously, press the **Source** button on the remote control or control panel to select the desired source.
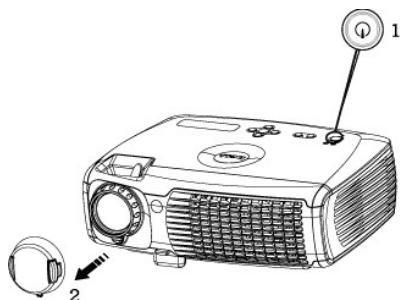
1	Power button
2	Lens cap

Powering Off the Projector

DO NOT UNPLUG THE PROJECTOR BEFORE PROPERLY SHUTTING DOWN USING THE FOLLOWING STEPS.

l Regular powering off procedures

1. Press the power button to turn off the projector. The `"Power Off the Lamp?"` message appears on the OSD.
2. Press the power button again. The cooling fans continue to operate for 2 minutes.
3. If the **LAMP** light is solid orange and the LCD display indicates that the lamp is defective, replace the lamp.
4. If the **TEMP** light is solid orange and the LCD display indicates that the projector is overheated, the projector has overheated. The display automatically shuts down. Turn the display on again after the projector cools down and the LCD message indicates there is no longer an overheated condition. If the problem persists, contact Dell.
5. If the **TEMP** light is blinking orange and the LCD display indicates a fan failure, a projector fan has failed and the projector will automatically shut down. If this problem persists, contact Dell.
6. Disconnect the power cord from the electrical outlet and the projector.
7. If you press the power button while the projector is running, the `"Power Off the Lamp?"` message appears on the screen. To clear the message, press any button on the control panel or ignore the message; the message will disappear after 5 seconds.

l Using lens cap for Smart Power Management

1. Put on the lens cap to the projection lens.
2. After 10 seconds, the projector turns off automatically and the cooling fans continue to operate for 2 minutes.
3. Disconnect the power cord from the electrical outlet and the projector.

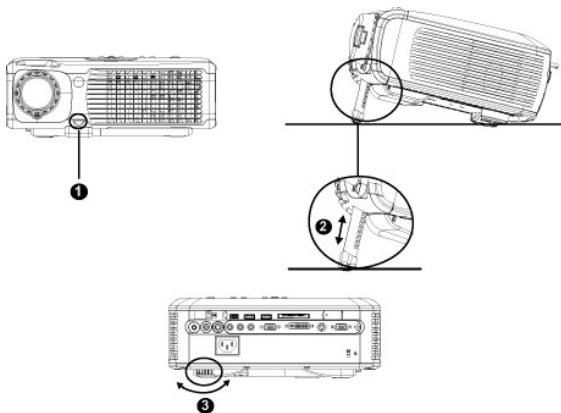**Adjusting the Projected Image**

Adjusting the Projector Height

To raise the projector:

1. Press the elevator button.
2. Raise the projector to the desired display angle, and then release the button to lock the elevator foot into position.
3. Use the tilt adjustment wheel to fine-tune the display angle.

To lower the projector:

1. Press the elevator button.
2. Lower the projector, and then release the button to lock the elevator foot into position.

1	Elevator button
2	Elevator foot
3	Tilt adjustment wheel

⚠️ **CAUTION: To avoid damaging the projector, ensure that the zoom lens and elevator foot are fully retracted before moving the projector or placing the projector in its carrying case.**
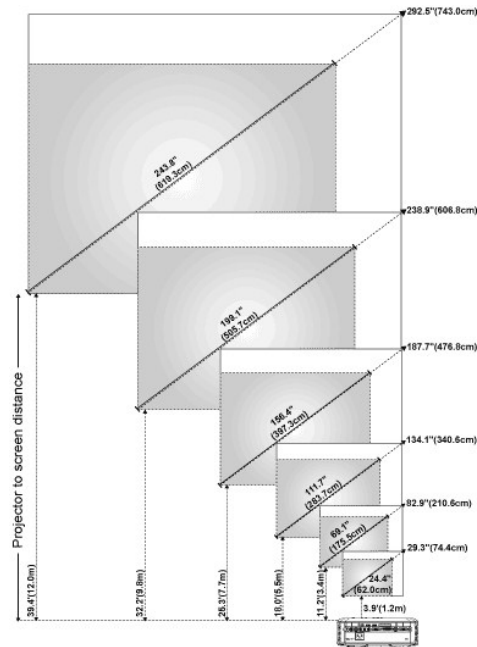
Adjusting the Projector Zoom and Focus

1. Rotate the zoom tab to zoom in and out.

2. Rotate the focus ring until the image is clear. The projector focuses at distances from 3.9 ft to 39.4ft (1.2 m to 12 m).

1	Zoom tab
2	Focus ring

Adjusting Projection Image Size

Screen (Diagonal)		Max.	29.3" (74.4cm)	82.9" (210.6cm)	134.1" (340.6cm)	187.7" (476.8cm)	238.9" (606.8cm)	292.5" (743.0cm)
		Min.	24.4" (62.0cm)	69.1" (175.5cm)	111.7" (283.7cm)	156.4" (397.3cm)	199.1" (505.7cm)	243.8" (619.3cm)
Screen Size	Max. (WxH)		23.4"X17.6" (59.4cmX44.7cm)	66.3"X49.7" (168.4cmX126.2cm)	107.3"X80.4" (272.5cmX204.2cm)	150.2"X112.6" (381.5cmX286.0cm)	191.1"X143.3" (485.4cmX364.0cm)	234.0"X175.5" (594.4cmX445.8cm)
	Min. (WxH)		19.5"X14.6" (49.5cmX37.1cm)	55.3"X41.4" (140.5cmX105.2cm)	89.4"X67.0" (227.1cmX170.2cm)	125.1"X93.9" (317.8cmX238.5cm)	159.3"X119.5" (404.6cmX303.5cm)	195.0"X146.3" (495.3cmX371.6cm)
Distance			3.9'(1.2m)	11.2'(3.4m)	18.0'(5.5m)	25.3'(7.7m)	32.2'(9.8m)	39.4'(12.0m)

* This graph is for user reference only.

Changing the Lamp

Replace the lamp when you see "`Lamp is approaching the end of its useful life in full power operation. Replacement suggested!`" message on the screen by carefully following these instructions. If this problem persists, contact Dell.

⚠️ **CAUTION:** The lamp becomes very hot with in use. Do not attempt to replace the lamp after use until the projector has been allowed to cool down for at least 30 minutes.

Lamp Changing Procedure:

1. Turn off the projector and disconnect the power cord.
2. Let the projector cool for at least 30 minutes.
3. Loosen the 2 screws that secure the lamp cover, and remove the cover.
4. Loosen the 3 screws that secure the lamp.
5. Pull up the lamp by its metal handle.
6. Reverse steps 1 through 5 to install the new lamp.
7. Reset the lamp by usage time selecting the left **Lamp Reset** icon in the OSD **Management** tab.
8. Dell may require that lamps replaced under warranty be returned to Dell. Otherwise, contact your local waste disposal agency for the address of the nearest deposit site.
9. The lamp contains mercury. Disposal of this material may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eiae.org.
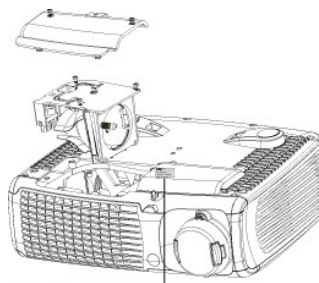

⚠️ **CAUTION:** Do not touch the bulb or the lamp glass at any time. The bulb may explode due to improper handling, including the touching of the bulb or the lamp glass.

Installing the Plug and Play Memory Card Reader Module (Module sold separately)

To purchase the plug and play-memory card reader module for Dell projectors, please visit the Dell website at http://www.Dell.com/projectors for purchasing information.

l **Card Reader Installing Procedures**

1. Read the Quick Set Up Card in the card reader box before installation and assemble the module according to the instructions.
2. Remove the dummy module installed in the projector by tilting the 2 clamps to loosen the connection and then pulling it out the projector as below figure.
3. Insert the assembled card reader into the projector tenderly.
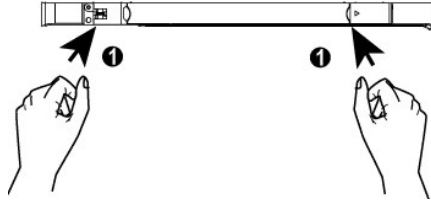
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Regulatory Notices: Dell™ 4100MP Projector User's Guide

- Federal Communications Commission (FCC) Notice (U.S. Only)
- FCC Declaration of Conformity
- CE Declaration of Conformity for a Class B Digital Device
- Canadian Regulatory Information (Canada Only)
- EN 55022 Compliance (Czech Republic Only)
- VCCI Class 2 Notice (Japan Only)
- MIC Notice (South Korea Only)
- Polish Center for Testing and Certification Notice
- NOM Information (Mexico Only)
- Regulatory Listing

Federal Communications Commission (FCC) Notice (U.S. Only)

NOTICE: 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:

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

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- This device may not cause harmful interference.
- This device must accept any interference received including interference that may cause undesired operation.

Instructions to Users: This equipment complies with the requirements of FCC (Federal Communication Commission) equipment provided that the following conditions are met.

1. Power cable: Shielded power cable must be used.
2. Video inputs: The input signal amplitude must not exceed the specified level.

NOTICE: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Declaration of Conformity

According to 47 CFR, Part 15 of the FCC Rules
* For the following named product:
DLP Projector
4100MP/DELL   CHC7229

* Manufactured at:

Coretronic Corporation

We hereby declare that 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.

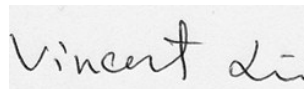|	
* FCC Rules:	Tested to comply with FCC part 15, class B
* Test site at:	Advance Data Technology Corporation No.81-1, Lu Liao Keng, 9 Ling, Wu Lung Tsung, Chiung Lin Hsiang, Hsin Chu Hsien, Taiwan
* Responsible Party for Product Compliance:	Coretronic Corporation No 11, Li Hsing Rd, Science-Based Industrial Park, Hsinchu, Taiwan Tel: 886-3-5772000 Fax: 886-3-5790066

* Manufacturer Information:

Coretronic Corporation	RD Center
No 11, Li Hsing Rd, Science-Based Industrial Park, Hsinchu, 300, Taiwan	Technology Engineering Associate Vice President
	December 01, 2003

Hsinchu, December 01, 2003

Mr. Vincent Lin

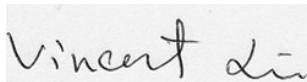## CE Declaration of Conformity for a Class B Digital Device

Directives to which conformity is declared:
EMC Directives 89/336/EEC and Amending Directive 92/31/EEC
And
Low Voltage Directive 73/23/EEC
Standards to which conformity is declared
EN55022: 1998+A1:2000, Class B; EN55024: 1998+A1:2001; EN60950: 2000;
EN61000-3-2: 2000; EN61000-3-3: 1995+A1:2001
Manufacturer's Name: Coretronic Corporation
Manufacturer's Address: No 11, Li Hsing Rd, Science-Based Industrial Park, Hsinchu, Taiwan

Importer's Address: Dell Products Europe BV

                           Raheen Industrial Estate, Limerick, Ireland

Type of Equipment: DLP Projector
Model Number(s): 4100MP
Reference Report Number:
Previously Declared Models:
I, the undersigned, hereby declare that the equipment specified above conforms to the above Directive(s) and standards.

Hsinchu, Taiwan

December 01, 2003   Mr. Vincent Lin   Head of RD Center

Canadian Regulatory Information (Canada Only)

This digital apparatus does not exceed the Class B limits for radio noise emissions from digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications.

Note that Industry Canada regulations provided, that changes or modifications not expressly approved by Dell Inc. could void your authority to operate this equipment.

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numerique de la classe B respecte toutes les exigences du Reglement sur le materiel brouilleur du Canada.

ı   **Canada RSS-210/CNR210** (RF Remote Controller)

To prevent radio interference to the licensed service, this device is intended to be operated indoors and away from windows to provide maximum shielding. Equipment (or its transmit antenna) that is installed outdoors is subject to licensing.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (EIRP) is not more than that required for successful communication.

> This Class B digital apparatus complies with Canada RSS-210.
> Cet appareil numérique de la classe B est conforme à la norme CNR-210 du Canada

The abbreviation, IC, before the registration number signifies that registration was performed based on a Declaration of Conformity indicating that Industry Canada technical specifications were met. It does not imply that Industry Canada approved the equipment.

EN 55022 Compliance (Czech Republic Only)

This device belongs to Class B devices as described in EN 55022, unless it is specifically stated that it is a Class A device on the specification label. The following applies to devices in Class A of EN 55022 (radius of protection up to 30 meters). The user of the device is obliged to take all steps necessary to remove sources of interference to telecommunication or other devices.

Pokud není na typovém štitku počítače uvedeno, že spadá do třídy A podle EN 55022, spadá automaticky do třídy B podle EN 55022. Pro zařízení zařazená do třídy A (ochranné pásmo 30m) podle EN 55022 platí následující. Dojde-li k rušení telekomunikačních nebo jiných zařízení, je uživatel povinen provést taková opatření, aby rušení odstranil.

VCCI Class 2 Notice (Japan Only)

This equipment complies with the limits for a Class 2 digital device (devices used in or adjacent to a residential environment) and conforms to the standards for information technology equipment that are set by the Voluntary Control Council for Interference for preventing radio frequency interference in residential areas.

Class B ITE

この装置は、情報処理装置等電波障害自主規制協議会(VCCI)の
基準に基づくクラス B 情報技術装置です。この装置は家庭環境で
使用することを目的としていますが、ラジオやテレビジョン受信機
に近接して使用されると、受信障害を引き起こすことがあります。
取扱説明書に従って正しい取り扱いをしてください。

MIC Notice (South Korea Only)

B Class Device

명   칭 / 모 델 명 : Projector / 4100 MP
인 증 번 호 :
인증받은자의상호 : 델컴퓨터(주)
제 조 년 월 일 : 2003
제 조 자 / 제 조 국 : Coretronic Corporation / 대만

기종별	사용자 안내문
B급 기기 (가정용 정보통신기기)	이 기기는 가정용으로 전자파적합등록을 한 기기로서 주거지역에서는 물론 모든 지역에서 사용할 수 있습니다.

Please note that this device has been approved for non-business purposes and may be used in any environment, including residential areas.

Polish Center for Testing and Certification Notice

The equipment should draw power from a socket with an attached protection circuit (a three-prong socket). All equipment that works together (computer, monitor, printer, and so on) should have the same power supply source.

The phasing conductor of the room's electrical installation should have a reserve short-circuit protection device in the form of a fuse with a nominal value no larger than 16 amperes (A).

To completely switch off the equipment, the power supply cable must be removed from the power supply socket, which should be located near the equipment and easily accessible.

A protection mark "B" confirms that the equipment is in compliance with the protection usage requirements of standards PN-93/T-42107 and PN-89/E-06251.

Wymagania Polskiego Centrum Badań i Certyfikacji

Urządzenie powinno być zasilane z gniazda z przyłączonym obwodem ochronnym (gniazdo z kołkiem). Współpracujące ze sobą urządzenia (komputer, monitor, drukarka) powinny być zasilane z tego samego źródła.

Instalacja elektryczna pomieszczenia powinna zawierać w przewodzie fazowym rezerwową ochronę przed zwarciami, w postaci bezpiecznika o wartości znamionowej nie większej niż 16A (amperów).

W celu całkowitego wyłączenia urządzenia z sieci zasilania, należy wyjąć wtyczkę ka bla zasilającego z gniazdka, które powinno znajdować się w pobliżu urządzenia i być łatwo dostępne.

Znak bezpieczeństwa "B" potwierdza zgodność urządzenia z wymaganiami bezpieczeństwa użytkowania zawartymi w PN-93/T-42107 i PN-EN 55022:1996.

Jeżeli na tabliczce znamionowej umieszczono informację, że urządzenie jest klasy A, to oznacza to, że urządzenie w środowisku mieszkalnym może powodować zakłócenia radioelektryczne. W takich przypadkach można żądać od jego użytkownika zastosowania odpowiednich środków zaradczych.

Pozostałe instrukcje bezpieczeństwa

- Nie należy używać wtyczek adapterowych lub usuwać kołka obwodu ochronnego z wtyczki. Jeżeli konieczne jest użycie przedłużacza to należy użyć przedłużacza 3-żyłowego z prawidłowo połączonym przewodem ochronnym.

- System komputerowy należy zabezpieczyć przed nagłymi, chwilowymi wzrostami lub spadkami napięcia, używając eliminatora przepięć, urządzenia dopasowującego lub bezzakłóceniowego źródła zasilania.

- Należy upewnić się, aby nic nie leżało na kablach systemu komputerowego, oraz aby kable nie były umieszczone w miejscu, gdzie można byłoby na nie nadeptywać lub potykać się o nie.

- Nie należy rozlewać napojów ani innych płynów na system komputerowy.

- Nie należy wpychać żadnych przedmiotów do otworów systemu komputerowego, gdyż może to spowodować pożar lub porażenie prądem, poprzez zwarcie elementów wewnętrznych.

- System komputerowy powinien znajdować się z dala od grzejników i źródeł ciepła. Ponadto, nie należy blokować otworów wentylacyjnych. Należy unikać kładzenia luźnych papierów pod komputer oraz umieszczania komputera w ciasnym miejscu bez możliwości cyrkulacji powietrza wokół niego.

NOM Information (Mexico Only)

The following information is provided on the device(s) described in this document in compliance with the requirements of the official Mexican standards (NOM)

Exporter:	Dell Inc. One Dell Way Round Rock, TX 78682
Importer:	Dell Computer de México, Paseo de la Reforma 2620, 11th Floor Col. Lomas Altas México DF CP 11950
Ship to:	Dell Computer de Mexico, S.A. de C.V. al Cuidado de Kuehne & Nagel de México S. de R.I., Avenida Soles No. 55 Col. Peñon de los Baños, 15520 Mexico, D.F.
Supply voltage:	> 100–240 VAC
Frequency:	50–60 Hz
Current consumption:	3.6 A

Regulatory Listing

Safety Certifications:

- UL 60950
- cUL
- NOM
- CE Mark–EN60950: 2000
- EZU
- IEC 60950:1999
- TüV GS
- PCBC
- GOST
- CCC
- PSB

- TüV-S
- S-TüV/Argentina

EMC Certifications:

- FCC Part 15 Class B
- CE Mark--EN55022:1998+A1: 2000 Class B, EN55024: 1998+A1:2001, EN61000-3-2: 2000, EN61000-3-3:1995_A1: 2001
- ICES-003
- EZU
- PCBC
- C-Tick
- VCCI Class B ITE
- MIC

Safety Instructions: Dell™ 4100MP Projector User's Guide

⚠️ **CAUTION**

Use the following safety guidelines to help protect your projector from potential damage and to ensure your own personal safety:

l   To reduce the risk of fire from the intense light emitted by the lens, do not put any object in front of or near the lens during operation.

l   (Hg) Lamp(s) inside this product contain mercury and must be recycled or disposed of according to local, state or Federal Laws. Or contact the electronic industries alliance: www.eiae.org for more information.

l   The surface beneath the projector might be hot with use. Be careful in handling the unit.

l   The lamp becomes very hot with use. Do not attempt to replace the lamp after use until the projector has been allowed to cool down for at least 30 minutes, and follow all instructions in "Changing the Lamp."

l   Do not touch the bulb or the lamp glass at any time. The bulb may explode due to improper handling, including touching the bulb or the lamp glass.

l   Remove lens cap before turning on projector.

l   To avoid damaging the projector and lamp, allow the cooling fan to run until it automatically turns off before turning off the projector.

l   Do not block the ventilation slots and openings on the projector.

l   Disconnect the power cord from the electrical outlet if the projector is not used for a long period of time.

l   Do not use the projector in an extremely hot, cold, or humid environment.

l   Do not use the projector in areas susceptible to excessive dust and dirt.

l   Do not use the projector near any appliance that generates a strong magnetic field.

l   Do not place the projector in direct sunlight.

l   Do not look into the lens while the projector is on; the bright light may hurt your eyes.

l   To reduce the risk of fire or electric shock, do not expose the projector to rain or moisture.

l   To prevent electric shock, do not open or disassemble the projector further than what is needed for lamp replacement.

l   To avoid damaging the projector, ensure that the zoom lens and elevator foot are fully retracted before moving the projector or placing the projector in its carrying case.

l   Turn off the projector and disconnect it from the electrical outlet before cleaning it. Use a soft cloth moistened with mild detergent to clean the display housing. Do not use abrasive cleaners, waxes, or solvents.

l   The remote control is equipped with a Class II laser that emits laser radiation. To reduce the risk of injury, do not look directly into the laser light, and do not point the laser light into anyone's eyes.

Specifications: Dell™ 4100MP Projector User's Guide

Light Valve	Single-chip DLP™ DDR (double data rate) technology
Brightness	2200 Max. ANSI Lumens
Contrast Ratio	2000:1 Typical (Full On/Full Off)
Uniformity	70% Typical (Japan Standard)
Lamp	250-watt user-replaceable UHP 1500-hour lamp (up to 3000 hours in eco mode)
Number of Pixels	1024 x 768
Displayable Color	16.7M colors
Color Wheel Speed	120Hz(2X)
Projection Lens	F/2.43~2.66, f=28.0~33.6mm with 1.2x manual zoomed lens
Projection Screen Size	24.4-292.5 inches (diagonal)
Projection Distance	3.9~39.4 ft (1.2m–12m)
Vertical Keystone Correction	±40° (Max.)
Horizontal Keystone Correction	±16° (Max.)
Video Compatibility	NTSC, NTSC 4.43, PAL, PAL-M, PAL-N, SECAM, and HDTV (1080i, 720p, 576i/p, 480i/p) compatibility
	Composite video, Component video and S-video capability
H. Frequency	15kHz-100kHz (Analog)
	30kHz-75kHz (Digital)
V. Frequency	43Hz-120Hz (Analog)
	48Hz-85Hz (Digital)
Power Supply	Universal 90-240V AC 50-60Hz with PFC input
Power Consumption	320 watts typical
Audio	2 speakers, 2 watts per channel RMS
Noise Level	<36dB(A) Full-on mode, 33dB(A) Eco-mode
Weight	6.5 lbs (2.95 kgs)
Dimensions (W x H x D)	External 11.9 x 9.9 x 4.5 ± 0.04 inches (302 x 251 x 114.5 ± 1mm)
Environmental	Operating temperature: 5°C–35°C (41°F–95°F) Humidity: 80% maximum
	Storage temperature: –20°C to 60°C (–4°F to 140°F) Humidity: 80% maximum
Regulatory	FCC, CE, VCCI, UL, cUL, TüV GS, ICES-003, MIC, C-Tick, GOST, PCBC, CCC, PSB, EZU, NOM, TüV/Argentina
I/O Connectors	
	Power: AC power input socket
	Computer input: one M1-DA for analog/digital/component, HDTV input signals, one 15-pin D-sub for analog input/ component, HDTV input signals
	Computer output: one 15-pin D-sub
	Video input: 3 RCA connectors for component video /HDTV input, one mini-DIN 4-pin S-video input, one RCA jack for composite video input
	Audio input: one phone jack (diameter 3.5mm)
	DC jack 12 volt @ 200mA output, relay control for automatic projection screen control
	One mini-DIN RS232 for wired remote projector control from PC

RS232 Pin Assignment (facing projector)

RS232 Protocol

   l **Communication Settings**

Connection settings	Value
Baud Rate:	19200
Data Bits:	8

Parity	None
Stop Bits	1

l **Control command Syntax (From PC to Projector)**

[H][AC][SoP][CRC][ID][SoM][COMMAND]

l **Example**: power on the projector

Enter the following code: 0xBE 0xEF 0x10 0x05 0x00 0xC6 0xff 0x11 0x11 0x01 0x00 0x01

Note: Least significant bytes are sent first.

l **Control Commands List**

Control Commands List	Address Code (BYTE)	Size of the Payload (WORD)	CRC16 for the entire packet (WORD)	MsG ID (WORD)	MsG size (WORD)	Command code (BYTE)	Command Description
0xefbe	0x10	0x0005	0xffc6	0x1111	0x0001	0x01	Power
			0xbfc7			0x02	Menu
			0x7e07			0x03	Up
			0x3fc5			0x04	Down
			0xfe05			0x05	Left
			0xbe04			0x06	Right
			0x7fc4			0x07	R-sync
			0x3fc0			0x08	Source
			0xfe00			0x09	Volume+
			0xbe01			0x0A	Volume-
			0x7fc1			0x0B	Zoom in
			0x3e03			0x0C	Zoom out
			0xffc3			0x0D	Mute
			0xbfc2			0x0E	Freeze
			0x7e02			0x0F	Hide
			0x3fca			0x10	Video Mode
			0xfe0a			0x11	H. Keystone Up
			0xbe0b			0x12	H. Keystone Down
			0x7fcb			0x13	V. Keystone Up
			0x3e09			0x14	V. Keystone Down
			0xffc9			0x15	PIP ON/OFF
			0xbfc8			0x16	PIP Swap
			0x7e08			0x17	Aspect ratio (4:3/16:9)
			0x3e0c			0x18	Power OFF
			0xffcc			0x19	Source-VGA Analog
			0xbfcd			0x1A	Source-VGA YPbPr (480p/576p/720p/1080i)
			0x7e0d			0x1B	Source-VGA YCbCr (480i/576i)
			0x3fcf			0x1C	Source-M1-Analog
			0xfe0f			0x1D	Source-M1-Digital
			0xbeoe			0x1E	Source-M1-YPbPr
			0x7fce			0x1F	Source-M1-YCbCr
			0x3fde			0x20	Source-RCA-YPbPr
			0xfe1e			0x21	Source-RCA-YCbCr
			0xbe1f			0x22	Source-S-Video
			0x7fdf			0x23	Source-Composite
			0x3e1d			0x24	Source-Card Reader
			0xffdd			0x25	Source-Wireless
			0xbfdc			0x26	Card Reader-PreView
			0x7e1c			0x27	Card Reader-Slide Show
			0x3e18			0x28	Card Reader-Normal
			0xffd8			0x29	Card Reader-Rotate
			0xbfd9			0x2A	ECO Mode ON
			0x7e19			0x2B	ECO Mode OFF
			0x3fdb			0x2C	Auto Source ON
			0xfe1b			0x2D	Auto Source OFF
			0Xbe1a			0x2E	Factory Reset

0x7fda		0x2F	Lamp Hour
0x3e12		0x30	Firmware Version
0x7e46		0xFF	System Status

*Projector Response Message Table:

- 0x00: Success
- 0x01: Invalid Command (on the control command list but not valid. e.g. Card Reader command while no card reader plug-in)
- 0x02: Error Command (includes CRC error and unknown commands)
- 0x03: System Status – Projector ON (Normal Mode)
- NACK: System Status– Projector OFF (Standby More)
  - Note: When the projector is in the standby mode, no acknowledgement (NACK) response is sent by the projector.

*Projector Response Lamp Hour:

- –> Byte0, Byte1, Byte2
  - o Byte0: 0x2F (the header of the lamp hour)
  - o Byte1: LSB (Hex)
  - o Byte2: MSB (Hex)
  - Ex:800 (3x256+2x16=800) hours –> 0x2F, 0x20, 0x03

*Firmware Version Response:

- –> 4 Bytes ASCII Code: "V*.*"
  - V: Version
    - *: 0-9

Ex: Version 1.5 –> "V1.5"

Note: Control codes in Dark Blue and the projector response codes were added to 4100MP projectors manufactured after September, 2004.

Compatibility Modes

Mode	Resolution	(ANALOG)		(DIGITAL)	
		V. Frequency (Hz)	H. Frequency (KHz)	V. Frequency (Hz)	H. Frequency (KHz)
VGA	640X350	70	31.5	70	31.5
VGA	640X350	85	37.9	85	37.9
VGA	640X400	85	37.9	85	37.9
VGA	640X480	60	31.5	60	31.5
VGA	640X480	72	37.9	72	37.9
VGA	640X480	75	37.5	75	37.5
VGA	640X480	85	43.3	85	43.3
VGA	720X400	70	31.5	70	31.5
VGA	720X400	85	37.9	85	37.9
SVGA	800X600	56	35.2	56	35.2
SVGA	800X600	60	37.9	60	37.9
SVGA	800X600	72	48.1	72	48.1
SVGA	800X600	75	46.9	75	46.9
SVGA	800X600	85	53.7	85	53.7
XGA	1024X768	43.4	35.5	-	-
XGA	1024X768	60	48.4	60	48.4
XGA	1024X768	70	56.5	70	56.5
XGA	1024X768	75	60	75	60
XGA	1024X768	85	68.7	-	-
*SXGA	1280X1024	60	63.98	60	63.98
*SXGA	1280X1024	75	79.98	75	79.98
*SXGA	1280X1024	85	91.1	85	91.1
*SXGA+	1400X1050	60	63.98	60	63.98
*UXGA	1600X1200	60	75	60	75
MAC LC13*	640X480	66.66	34.98	-	-
MAC II 13*	640X480	66.68	35	-	-
MAC 16*	832X624	74.55	49.725	-	-
MAC 19*	1024X768	75	60.24	-	-
*MAC	1152X870	75.06	68.68	-	-
MAC G4	640X480	60	31.35	-	-
MAC G4	640X480	120	68.03	-	-
MAC G4	1024X768	120	97.09	-	-
IMAC DV	640X480	117	60	-	-
IMAC DV	800X600	95	60	-	-
IMAC DV	1024X768	75	60	-	-
IMAC DV	1152X870	75	68.49	-	-
IMAC DV	1280X960	75	75	-	-

IMAC DV	1280X1024	85	91.1	-	-

* Compressed computer image.

Troubleshooting: Dell™ 4100MP Projector User's Guide

If you experience problems with your projector, see the following troubleshooting tips. If the problem persists, contact Dell.

No image appears on the screen

ι Ensure that the lens cap is removed and the projector turned on.

ι Ensure the external graphics port of the portable computer is enabled. If you are using a Dell portable computer, press [Fn]
   [F8 CRT/LCD]. For other computers, consult your owner's manual.

ι Ensure that all the cables are securely connected as described in "Connecting the Projector."

ι Ensure that the pins of the connectors are not bent or broken.

ι Ensure that the lamp is securely installed (see "Changing the Lamp").

ι Run "Self-diagnostic test" (see " Self-diagnostic for video") for preliminary diagnostic on projection problem for video. Ensure
   that the colors of the test pattern are correct.

Partial, scrolling, or incorrectly displayed image

ι Press the **Auto Adjust** button on the remote control or the control panel.

ι If you are using a Dell portable computer (for other computers consult your owner's manual):

   1. Set the resolution of the computer to XGA (1024 x 768):

       1a) Right click on the unused portion of your Windows desktop-» Properties-» Settings tab.

       1b) Verify the "Screen area" slide bar is set to 1024x 768 pixels for the external monitor port.

   2. Press [Fn] [F8 CRT/LCD].

ι If you experience difficulty in changing resolutions or your monitor freezes, restart all the equipment and the projector.

The screen does not display your presentation

ι If you are using a portable computer, press [Fn] [F8 CRT/LCD].

Image is unstable or flickering

ι Adjust the tracking in the OSD **Computer Image** tab.

Image has vertical flickering bar

ι Adjust the frequency in the OSD **Computer Image** tab.

Image color is not correct

l If your graphic card output signal is "Sync on Green", and you would like to display VGA at 60Hz signal, please go into "OSD–> Management –> Signal Type" and select "RGB".

l Run "Self-diagnostic test" (see " Self-diagnostic for video ") for preliminary diagnostic on image color problem. Ensure that the colors of the test pattern are correct.

Image is out of focus

l Adjust the focus ring on the projector lens.

l Ensure that the projection screen is within the required distance from the projector (3.9ft [1.2m] to 39.4ft [12m]).

The image is stretched when displaying 16:9 DVD

The projector automatically detects 16:9 DVD and adjusts the aspect ratio to full screen with a 4:3 (letter-box) default setting.
If the image is still stretched, adjust the aspect ratio as follows:

l If you are playing a 16:9 DVD, select 4:3 aspect ratio type on your DVD player if capable.

l If you cannot select 4:3 aspect ratio type on your DVD player, select 4:3 aspect ratio in the "All Images" menu within the OSD function.

Image is reversed

l Select Management from the OSD and adjust the projection mode.

Lamp is burned out or makes a popping sound

l When the lamp reaches its end of life, it may burn out and may make a loud popping sound. If this occurs, the projector will not turn back on, and will display "Lamp Failure" in the LCD display until the lamp is replaced. To replace the lamp, see "Changing the Lamp".

Self-diagnostic for video

l Dell 4100MP Projector provides self-diagnostic test of the projector video display (for Video, S-video, and Component-i). Use this advanced feature for preliminary self-diagnostic on your projector when encountering the display problem for video.
l After turning on the projector, press "+" and "-" buttons on the control panel simultaneously and release the buttons when screen goes blank.
l Press "+" and "-" buttons again to exit the diagnostic mode.
l While in Self-diagnostic mode, the screen will run a seven-color-cycle test as following: "Red–> Green–> Blue–> White–> Watchet Blue–> Dark Green–> Yellow." Ensure that the colors of the test pattern are correct. Contact Dell if the colors are not displayed correctly.

The remote control is not operating smoothly or operating in very limited range

When the remote projector control is not smooth or operating in very limited range, please follow below procedures for troubleshooting.

1. Battery low? Check if the laser beam transmitted from the remote is too dim. If it is, replace it with 2 new AA batteries.

2. If the batteries are not low, the projector may be operating in very "noisy" RF environment with the interference from other wireless devices. Use " RF Learning" to solve the interference problem.
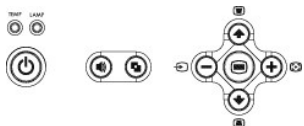
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Using Your Projector: Dell™ 4100MP Projector User's Guide

●Control Panel
●Remote Control
●On-Screen Display

Control Panel

Power

See "Powering On/Off the Projector."

Volume

Increases or decreases the speaker volume.

Video Mode

Switches the display mode to **PC Mode**, **Movie Mode**, **Game Mode, sRGB Mode, User Mode.**

Source

Press ⊡ to step through Analog RGB, Composite, Component-i, S-video, and Analog YPbPr sources, and photo image from the card reader (Optional accessory) when multiple sources are connected to the projector.

Auto Adjust

Press ⊡ to synchronize the projector to the input source.
Auto-Adjust will not operate if the OSD (On-Screen Display) is displayed.

Menu

Press ⊛ to activate the OSD. Use the directional keys and **Menu** button to navigate through the OSD.

Four Directional Keys

The four directional keys ⊕⊕⊖⊕ can be used to navigate through the tabs in the OSD.

Keystone Adjustment

Press ▣ or ◼ button to adjust image distortion caused by tilting the projector.

Remote Control
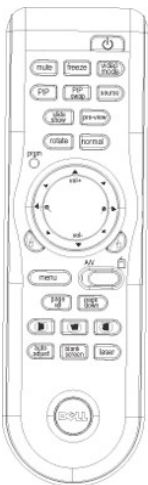
Power

See "Power On/Off the Projector."

Source

Press the **Source** button to switch between Analog RGB, Digital RGB, Composite, Component-i, S-video, Analog YPbPr sources, and the card reader (Optional accessory).

Freeze

Press the **Freeze** button to temporarily stop motion video. Press the button again to resume.

Mute

Press the **Mute** button to mute or un-mute the projector speaker.

PIP

Press the **PIP** button to turn on/off the PIP screen.

PIP Swap

Press the **PIP Swap** button to swap the foreground and background display sources.

Slide Show (Enabled only when projection with the photo images from the optional card reader)
Press the **Slide Show** button to display all the photo images in the memory card one by one.

Pre-view (Enabled only when projecting photo images from the optional card reader)
Press the **Pre-view** button to browse thumbnails of all the photo image files.

Normal (Enabled only when projecting photo images from the optional card reader)
Press the **Normal** button to display the photo images one by one manually controlled by **Page Up** or **Page Down** button.

Rotate (Enabled only when projecting photo images from the optional card reader)
Press the **Rotate** button to rotate the image on the screen.

Auto Adjust (Re-sync)
Press 🔳 to synchronize the projector to the input source.
**Auto Adjust** will not operate if the OSD (On-Screen Display) is displayed.

Prgm (Program)
Initiates the Learning Mode on the remote control for switching the RF transmission channel by pressing **prgm** button.

Directional Keys
Use 🔺 or 🔻 to select OSD items, use "left" and "right" button to make adjustments. The **AV/PC** mode button has to be switched to AV position for activating the Up, Down, Left, and Right function on navigator button. In the PC position, these keys emulate PC keyboard commands.

Zoom In/Out
Press the 🔍 button to digitally magnify an image up to 32 times on the screen. Press the ⬤ button to reduce the zoomed image.

Left Click 🖱
Mouse left click.

Right Click 🖱
Mouse right click.

Blank Screen
Press **Blank Screen** button to hide the image, press again to resume display of the image.

Video Mode
The Dell 4100MP Micro-projector has preset configurations that are optimized for displaying data (PC Graphics) or video (movies, games, etc.). Press **Video Mode** button to toggle between **PC mode**, **Movie mode**, **Game Mode, sRGB**, or **User mode** (for user to setup and save preferred settings). Pressing the **Video Mode** button once will show the current display mode. Pressing the **Video Mode** button again will switch between modes.

AV/PC
Switch **AV Mode** and **PC Mode** by shifting the **AV/PC** button. At **PC Mode**, the mouse function will be enabled. While at **AV Mode,** the **Volume+/-,** and **Zoom In/Out** buttons on remote mouse pad will be enabled. Or **Up**, **Down**, **Left** and **Right** directional buttons for OSD control when menu pops up on the screen.

Page UP
Press the **Page Up** button to step to previous page.

Page Down

Press the **Page Down** button to step to next page.

Menu
Press the **Menu** button to activate the OSD. Use the directional keys and **Menu** button to navigate through the OSD.

Volume +/-
Press the **Vol+** button to increase the volume, press the **Vol-** button to reduce the volume. (Enabled only when AV/PC button switches to A/V mode)

Horizontal Keystone- (▶) + (◀)

Adjust image distortion caused by horizontal shifting of the projector orientation.

Auto Vertical keystone correction (▱)

Press the button to adjust the image distortion caused by tilting the projection **AUTOMATICALLY**.

Laser
Aim the remote control at the screen, and press and hold the Laser button to activate the laser light.

On-Screen Display

l   The projector has a multi-language On-Screen Display (OSD) that can be displayed with or without an input source present.

l   The OSD allows you to make image adjustments and change a variety of settings. If the source is a computer, the OSD allows changes to the Computer Image tab. When using a video source, the OSD allows changes to the Video Image tab. The projector automatically detects the source.

l   When the OSD is on the screen, press (▲) or (▼) to navigate through the OSD tabs.
Example: All Images--> Computer Image-- > Audio-- > Management-- > Language-- > Factory Reset. To make a selection in a tab, press (●) on keypad or "**Menu**" on remote controller.

l   Press (▲) or (▼) to make a selection and adjust the settings by pressing (−) or (+) on keypad or Left and Right button on the remote controller. When an item is selected, the color of the item will change to dark blue.

l   To exit the OSD, go to "Exit" tab and press (●) button on keypad or "**Menu**" on remote controller.

All Images Menu

Brightness

Adjust the brightness of the image.

l Press ⊖ to darken the image.
l Press ⊕ to lighten the image.

Contrast

Control the degree of difference between the brightest and darkest parts of the picture. Adjusting the contrast changes the amount of black and white in the image.
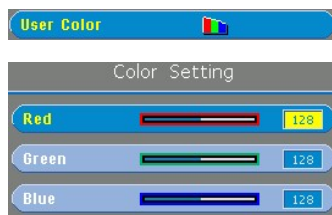

l Press ⊖ to decrease the contrast.
l Press ⊕ to increase the contrast.

Color Temp.

Adjust the color temperature. With the higher temperature, the screen looks more blue; with the lower temperature, the screen looks more red. User mode activates the values in the "color setting" menu.

User Color

This mode allows manual adjustment of red, green, and blue color settings. Modifying these values will automatically change the color temperature to "user".

V. Keystone

Adjust the image distortion caused by tilting the projector.

H. Keystone

H. Keystone   ◀ —— ▶ `0`

Adjust the image distortion caused by horizontal shifting of the projector orientation.

Auto Keystone

Auto Keystone   On   Off

- Select **On** to enable the auto correction for vertical image distortion due to tilting the projector.
- Select **Off** to disable the auto correction.

Semi-Auto Keystone

Semi-Auto Keystone   On   Off
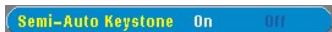
Select **On** to activate the semi-auto keystone correction for image distortion. A specific image pattern will be present on the screen once it's been activated and then complete the settings by following below instructions.

- Adjust the projected image display to appropriate location on the screen.
- Starting with positioning for first corner on top-left of the screen, use the **Navigator** button to move the cursor to preferred location within the image display area and press **Menu** button to confirm the positioning.
- Complete the positioning for the rest 3 corners clockwise by the same instruction as above.
- After the positioning for 4 corners is completed, the image display will be projected on the screen according to the designated corner location.

Zoom

Zoom   🔍 —— 🔍 `1`

- Press ⊕ to digitally magnify an image up to 32 times on the projection screen.
- Press ⊖ to reduce the zoomed image.

Aspect Ratio

Aspect Ratio   ▢ ▢ 🖵 `4:3`

Select this function to fit 1:1, 16:9 or 4:3 aspect ratio. In order to use the 1:1 aspect ratio, the input must be a computer signal (through VGA cable) less than XGA (1024 x 768), component 576p/ 480i / 480p, S-Video, or Video (composite). If the input signal is a computer signal greater than XGA or component 1080i / 720p, only 16:9 or 4:3 aspect ratio will be available. When an icon is selected, the color of the icon will change to dark blue.

1:1: The input source will be displayed without scaling.

16:9: The input source will be displayed in wide screen mode (16:9) without scaling. The source will be scaled to fit the width of the screen.

4:3: The input source will be scaled to fit the screen.

Video Mode

Video Mode   ⊘ —— ⊕ `PC`

Select this function to optimize the display image for home use (**Movie Mode** or **Game Mode**), conference use (**PC Mode**) or as user preferable settings (**User Mode**), or use **sRGB** mode for more accurate color representation. When an icon is selected, the color of the icon will change to dark blue. Adjusting the settings of **White Intensity** or **Degamma** tab, will select **User Mode** automatically.

White Intensity

White Intensity can be adjusted between 0 and 10.

White Intensity   ◑ —— ● `2`

- Setting 10 will maximize the brightness.
- Setting 0 will maximize color reproduction quality.

Degamma

![Degamma slider showing value 1]

Degamma can be adjusted between 1 and 4. Default setting is 3 (Recommended). Adjustment of the setting will change the color performance of the display.

Audio Menu

![Dell 4100MP Main Menu showing All Images, Computer Image, Video Image, PIP Image, Card Reader Module, Audio (highlighted), Management, Language, Factory Reset, Exit. Analog RGB 1 Resolution 1024 x 768 / 60 Hz]

![Dell 4100MP Audio menu showing Volume 50, Treble 8, Bass 3, Mute, Exit. Analog RGB 1 Resolution 1024 x 768 / 60 Hz]

Audio

Volume

![Volume slider showing value 50]

- l Press (−) to decrease the volume.
- l Press (+) to increase the volume.

Treble

Control the higher frequencies of your audio source.

![Treble slider showing value 8]

- l Press (−) to decrease the treble.
- l Press (+) to increase the treble.

Bass

Control the lower frequencies of your audio source.
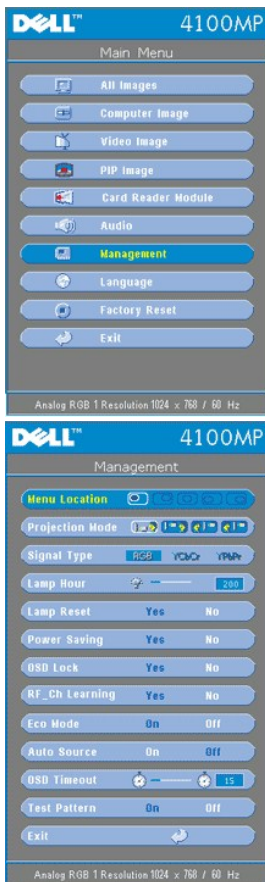
![Bass slider showing value 3]

- l Press (−) to decrease the bass.
- l Press (+) to increase the bass.

Mute

Mute

l Select the left icon to mute the volume.
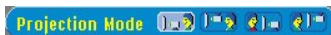l Select the right icon to un-mute the volume.

Management Menu

DELL™ 4100MP

Main Menu

All Images
Computer Image
Video Image
PIP Image
Card Reader Module
Audio
Management
Language
Factory Reset
Exit

Analog RGB 1 Resolution 1024 x 768 / 60 Hz

DELL™ 4100MP

Management

Menu Location
Projection Mode
Signal Type   RGB   YCbCr   YPbPr
Lamp Hour   200
Lamp Reset   Yes   No
Power Saving   Yes   No
OSD Lock   Yes   No
RF_Ch Learning   Yes   No
Eco Mode   On   Off
Auto Source   On   Off
OSD Timeout   15
Test Pattern   On   Off
Exit

Analog RGB 1 Resolution 1024 x 768 / 60 Hz

Management

Menu Location

Menu Location

Select the location of the OSD on the screen.

Projection Mode

Projection Mode

l   Front Projection-Desktop
The default setting.
l   Rear Projection-Desktop
The projector reverses the image so you can project from behind a translucent screen.
l   Front Projection-Ceiling Mount
The projector turns the image upside down for ceiling-mounted projection.
l   Rear Projection-Ceiling Mount
The projector simultaneously reverses and turns the image upside down. You can project from behind a translucent
screen with a ceiling-mounted projection.

Signal Type

Signal Type   RGB   YCbCr   YPbPr

Manually select signal type RGB, YCbCr, YPbPr.

Lamp Hour

| Lamp Hour | 💡 — | 200 |

Display operating hours since lamp timer reset.

Lamp Reset

| Lamp Reset | Yes | No |

Use this function only after a new lamp is installed in the projector. Select the left **Lamp Reset** icon (light bulb and arrow under the icon), and press the **Enter** button to reset the lamp timer.

Power Saving Menu

Power Saving

Use this function to select the power saving delay period. Press "Yes" to go into the "set time" sub menu.

Set Time (Min)

| Set Time(Min.) | 5 | 15 | 30 | 45 | 60 |

Set the power saving delay period preference. When the projector is not receiving an input signal for the selected period of time, the projector will automatically enter the power saving mode, and turn off the lamp. After a one-minute cooling period, the projector can turn back on when an input signal is detected or by pressing the "Power" button. After two hours the projector will turn off and must be turned on by pressing the power button on the control panel or remote.

OSD Lock

| OSD Lock | Yes | No |

- ￨ Select **Yes** to enable **OSD Lock** for hiding the OSD menu. (Or pressing the **Menu** button on control for 15 seconds)
- ￨ Select **No** to disable the **OSD Lock** for hiding the OSD menu. (Or pressing the **Menu** button on control for 15 seconds again)
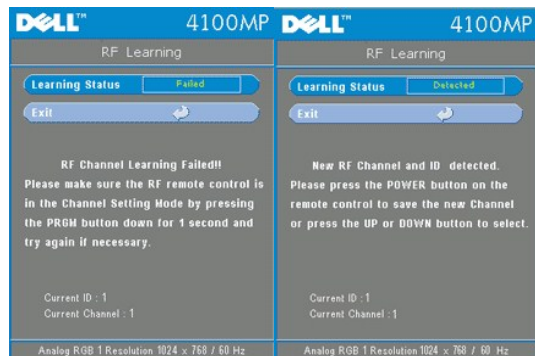
RF Learning Setting Menu
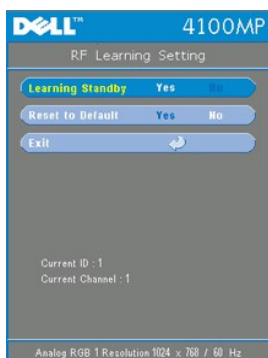
Auto Learning to Change RF Remote Control Channel

- Select **Yes** with the control buttons to enter the **Learning Standby** mode. The projector will enter the RF Learning mode and display the **RF Learning** menu.
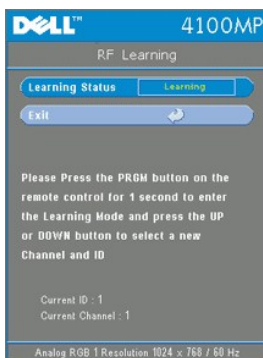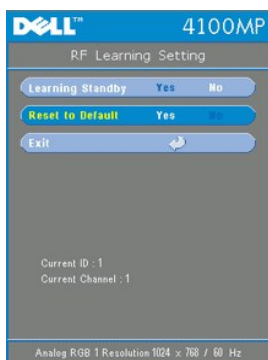

- Press **prgm** button on the remote control for 1 sec to initiate the **RF Learning** process for the remote control.
- There are 2 ways for matching the channel between the transmitter (the remote control) and the receiver (the projector), I) Auto: Press the **Source** button on the remote control for transmitting the signal in a new frequency (which is randomly determined by the remote control). 2) Manual: Use the **Up** and **Down** buttons on the remote to select your preferred channel. The remote control will then transmit the signal on the selected channel.
- When the channel matches on both ends (the remote and the projector) as indicated in the **RF Learning** menu, press the **Power** button on the remote control to confirm and set the new channel. Or try again if it failed.

Back to Factory Default for the RF Channel

l Select **Yes** on **RF Learning Setting** menu and then enter the **RF Reset to Default** menu. Select **Reset to Default Channel** tab to reset the receiver end, the projector back to the factory default channel.

l Press **prgm** button on the remote control **for at least 5 sec** to reset the transmitter to the factory default channel.
l The successful reset back to the default channel can be confirmed when the remote control transmitter controls the projector.

Eco Mode

l Select **On** to operate the projector in lower power (200 Watt) for extending the lamp life. The luminance will be lower.
l Select **Off** to resume the operation in normal power (250 Watt).

Auto Source

The projector will always automatically search for available input signals when **Auto Source** is **On**, which is the default setting. Press the **Source** button with **Auto Source On** to automatically search for the next available input signal. Selecting **Off** will lock on the current input source. Set **Auto-Source** to **Off** to step through the different input signals manually.

OSD Timeout

Adjust the time delay of the **OSD Timeout**. The Default setting is 15 seconds.

Language Menu

Language

Language

Press ⊕ or ⊕ to select the preferred language.

PIP Image Menu

PIP Image–

Note 1: PIP Image will be enabled only when both types of signals below are connected to the projector,

Type 1): S-Video, Composite Video, Component-i.

Type2): Component-p, HDTV, PC signals.

Note 2: When swapping the foreground and background displays, the smallest screen size of foreground display will vary depending on different combinations of signal sources for PIP.

PIP Image

    PIP Window

- l　Select **On** to enable the picture-in-picture display function.
- l　Select **Off** to disable the picture-in-picture display function.

    PIP Source

Use **PIP Source** to step through the display source one by one for the foreground display.
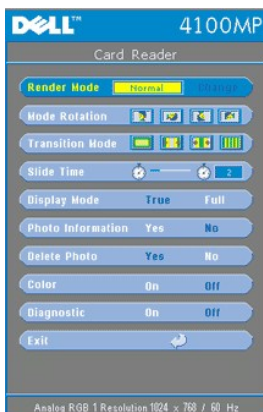
    PIP Size

Adjust the image size of the foreground display.

    PIP Location

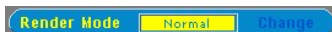Adjust the image location of the PIP display.

Card Reader Module Menu

Card Reader Module - Note: this menu is only available when the card reader is installed. (Card Reader is an optional accessory that can be purchased from the Dell web-site)

Card Reader Module

Render Mode

Use **Render Mode** function to change **Normal**, **Pre-view** or **Slide Show** mode, select **Change** to go into the sub-menu.

Mode Rotation (Available in **Normal** mode only)

Use **Mode Rotation** to rotate the projection image.

Transition Mode (Available at **Normal**, **Pre-view** and **Slide Show** modes)

Use **Transition Mode** to setup the preferred transition pattern for the image.

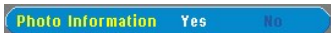**Slide Time** (Available at **Normal**, **Pre-view** and **Slide Show** modes)

Adjust the slide time interval during **Slide Show**.

Display Mode (Available at **Normal** mode only)

Display Mode — **True** **Full**

- l Select **True** to display the photo image in native resolution.
- l Select **Full** to scale the photo image to full screen.

Photo Information (Available at **Normal, Pre-view** and **Slide Show** modes)

Photo Information — **Yes** No

- l Select **Yes** to show the photo information on the screen.
- l Select **No** to hide the photo information.

Delete Photo (Available at **Normal** mode only)

Delete Photo — **Yes** No

Select **Yes** to delete the photo image projected on the screen.

Color (Available at **Normal**, **Pre-view** and **Slide Show** modes)

Color — **On** Off

- l Select **On** to display the photo image in color mode.
- l Select **Off** to display the photo image in black-and-white mode.

Diagnostic

Diagnostic — **On** Off

- l Select **On** to run the **Diagnostic** test on the card reader.
- l Select **Off** to exit the test.

Note: Please refer to the installation guide of the card reader for details.
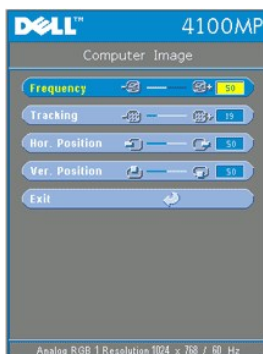
Factory Reset Menu

Factory Reset

Select **Yes** to reset the projector to its factory default settings. Reset items include both computer image and video image settings.

Computer Image Menu

Computer Image- Note: this menu is only available when a computer input signal is present.

Frequency

Change the display data clock frequency to match the frequency of your computer graphics card. If you see vertical flickering bars, use the frequency control to minimize the bars. This is a coarse adjustment.

Tracking

Synchronize the phase of the signal of the display with that of the graphic card. If you experience an unstable or flickering image, use the **Tracking** function to correct it. This is a fine adjustment.

NOTE: Adjust the **Frequency** first and then the **Tracking**.

Hor. Position (Horizontal Position)

- Press ⊖ to move the image to the left.
- Press ⊕ to move the image to the right.

Ver. Position (Vertical Position)

- Press ⊖ to move the image down.
- Press ⊕ to move the image up.

Video Image Menu

Video Image- Note: this menu is only available when S-video, and Video (composite) signals are present.

Saturation

Adjust a video image from black and white to fully saturated color.

- l Press ⊖ to decrease the amount of color in the image.
- l Press ⊕ to increase the amount of color in the image.

Sharpness

Adjust the sharpness of the image.

- l Press ⊖ to decrease the sharpness.
- l Press ⊕ to increase the sharpness.

Tint

Adjust the color balance of red and green.

- l Press ⊖ to increase the amount of green in the image.
- l Press ⊕ to increase the amount of red in the image.

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