


Appendix 2 - Code List: IR / RS232 / DDC Data

Remote Control Code:

1. IR Code

Key	Function	Description	Code	ID and Protocol	
1	Power	This button will on/off the projector.	0x02	Frequency	38 KHz
2	Source	This button will show available source options.	0x04	Protocol	NEC Format
3	Auto	This button will automatically adjust projector's picture quality.	0x08	Custom Code	0x0030
4	Blank	This button will turn projector into/out of blank mode.	0x07		
5	Mode	When there is no OSD menu on the screen, the button will change picture mode. When there is OSD menu on the screen, this button will excite the item chooser.	0x10		
6	Menu/Exit	This button will turn on/off OSD menu.	0x0F		
7	Right/ Panel Key Lock	This button will disable/ enable panel key functions. This button will move the chooser item to the right one.	0x0E		
8	Left/Q?	When there is no OSD menu on screen, this button will show FAQ menu. When there is OSD menu on screen, this button will move the chooser item to the left one.	0x0D		
9	Up	When there is no OSD on screen, this button will correct optical keystone in negative direction. When there is OSD menu on screen, this button will move the chooser item to the upper one.	0x0B		
10	Down	When there is no OSD on screen, this button will correct optical keystone in positive direction. When there is OSD menu on the screen, this button will move the chooser item to the next one.	0x0C		
11	Freeze	This button will freeze/ unfreeze the image.	0x03		
12	Volume +	This button will magnify the volume gradually.	0x82		
13	Volume -	This button will reduce the volume gradually.	0x83		
14	Timer on	When the presentation timer is off , this button will activate/ stop the timer. When the presentation timer is on , this button will restart, continue or turn off the timer.	0x25		
15	Timer	This button will activate the "Presentation Timer" setting.	0x26		

	Setup			
16	Digital Zoom +	This button will show unsupported logo.	0x18	
17	Digital Zoom -	This button will show unsupported logo.	0x19	
18	Page Up	By pressing “Page Up” button, could enable Page Up function.	0x05	
19	Page Down	By pressing “Page Down” button, could enable Page Down function.	0x06	
20	Capture	Capture current image as the start-up screen	0x1E	

Extra IR Function Code

NO	Customer Code	Data Code	Function	NO	Customer Code	Data Code	Function
1	0030	02FD	POWER	17	0030	26D9	TIMER SETUP
2	0030	1EE1	CAPTURE	18	0030	0FF0	MENU/EXIT
3	0030	13EC	ASPECT	19	0030	08F7	AUTO
4	0030	03FC	FREEZE	20	0030	0BF4	▲
5	0030	18E7	DIDITAL ZOOM+	21	0030	0DF2	◀
6	0030	16E9	BRIGHTNESS	22	0030	15EA	ENTER
7	0030	11EE	CONTRAST	23	0030	0EF1	▶
8	0030	946B	TEST PATTERN	24	0030	0CF3	▼
9	0030	19E6	DIDITAL ZOOM-	25	0030	07F8	BLANK
10	0030	27D8	————	26	0030	04FB	SOURCE
11	0030	28D7	————	27	0030	827D	VOLUME+
12	0030	05FA	————	28	0030	14EB	MUTE
13	0030	25DA	TIMER ON	29	0030	837C	VOLUME-
14	0030	837C	————	30	0030	10EF	MODE
15			LASER	31	0030	29D6	————
16	0030	06F9	————	32	0030	30CF	————

2. RS-232 Command Code

(Each input upper case and lower case character should be action)

CMD	ACTION	TYPE	ASCII
power	Write	Power On	*pow=on#
	Write	Power off	*pow=off#
	Read	Power Status	*pow=?#
Source Selection	Write	VGA/YPbPr	*sour=RGB#
	Write	VGA/YPbPr-2	*sour=RGB2#
	Write	YPbPr	*sour=YPbr#
	Write	DVI-A	*sour=dviA#
	Write	DVI-D	*sour=dvid#
	Write	HDMI	*sour=hdmi#
	Write	HDMI-2	*sour=hdmi2#
	Write	Network	*sour=net#
	Write	Composite	*sour=vid#
	Write	SVIDEO	*sour=svid#
	Read	Current source	*sour=?#
Audio	Write	Mute On	*mute=on#
	Write	Mute Off	*mute=off#
	Read	Mute Status	*mute=?#
	Write	Volume +	*vol=+#
	Write	Volume -	*vol=-#
	Read	Volume	*vol=?#
Picture Setting	Write	Contrast +	*con=+#
	Write	Contrast -	*con=-#
	Read	Contrast value	*con=?#
	Write	Brightness +	*bri=+#
	Write	Brightness -	*bri=-#
	Read	Brightness value	*bri=?#
	Write	Aspect 4:3	*asp=4:3#
	Write	Aspect 16:9	*asp=16:9#
	Write	Aspect Auto	*asp=AUTO#
	Write	Aspect Real	*asp=REAL#
	Write	Aspect Letterbox	*asp=LBOX#
	Write	Aspect Wide	*asp=WIDE#
	Write	Aspect Anamorphic	*asp=ANAM#
Lamp Control	Read	Lamp 1 Hour	*ltim=?#
	Read	Lamp 2 Hour	*ltim2=?#
	Write	Normal mode	*lampm=lnor#
	Write	Economic mode	* lampm =eco#
	Write	Dual Brightest	* lampm =dualbr#

	Write	Dual Reliable	* lampm =dualre#
	Write	Single Alternative	* lampm =single#
	Read	LampMode Status	*lampm=?#
Miscellaneous	Write	Blank On	*blank=on#
	Write	Blank Off	*blank=off#
	Read	Blank Status	*blank=?#
	Write	Freeze On	*freeze=on#
	Write	Freeze Off	*freeze=off#
	Read	Freeze Status	*freeze=?#
	Write	Menu	*menu#
	Write	Up	*up#
	Write	Down	*down#
	Write	Right	*right#
	Write	Left	*left#
	Write	enter	*enter#
	Write	Auto	*auto#
	Write	Zoom In	*zoomI#
	Write	Zoom out	*zoomO#
Preset mode	Write	Preset mode Dynamic	*appmod=dynamic#
	Write	Preset mode Cinema	*appmod=cine#
	Write	preset mode User1	*appmod=user1#
	Write	Preset mode User2	*appmod=user2#
	Write	Preset mode Presentation	*appmod=preset#
	Write	preset mode sRGB	*appmod=srgb#
	Write	Preset mode Standard	*appmod=std#
	Read	Preset mode status	*appmod=?#
Baud Rate	Write	Baud Rate 2400	*baud=2400#
	Write	Baud Rate 4800	*baud=4800#
	Write	Baud Rate 9600	*baud=9600#
	Write	Baud Rate 14400	*baud=14400#
	Write	Baud Rate 19600	*baud=19600#
	Write	Baud Rate 38400	*baud=38400#
	Write	Baud Rate 57600	*baud=57600#
	Write	Baud Rate 115200	*baud=115200#
	Read	Baud Rate status	*baud=?#

DDC

Analog (D-Sub)

00 FF FF FF FF FF FF 00
09 D1 01 F2 01 00 00 00
18 14 01 03 0E 00 00 78
0A AC E9 A0 5B 56 92 25
11 4F 5D BD EF 80 31 7C
45 7C 61 7C 61 C0 81 00
81 40 81 80 A9 40 64 19
00 40 41 00 26 30 18 88
36 00 00 00 00 00 00 18
00 00 00 FD 00 17 78 1F
63 11 00 0A 20 20 20 20
20 20 00 00 00 FE 00 42
45 4E 51 0A 20 20 20 20
20 20 20 20 00 00 00 FC
00 4D 58 36 31 33 53 54
0A 20 20 20 20 20 00 75

6

BNQ

MX613ST

ADT

A5

ddc2

Digital:

00 FF FF FF FF FF FF 00
09 D1 01 F2 01 00 00 00
18 14 01 03 80 00 00 78
0A AC E9 A0 5B 56 92 25
11 4F 5D BD EF 80 31 7C
45 7C 61 7C 81 00 81 40
81 80 90 40 A9 40 64 19
00 40 41 00 26 30 18 88
36 00 00 00 00 00 00 18
00 00 00 FD 00 17 78 1F
63 11 00 0A 20 20 20 20
20 20 00 00 00 FE 00 42
45 4E 51 0A 20 20 20 20
20 20 20 20 00 00 00 FC
00 4D 58 36 31 33 53 54
0A 20 20 20 20 20 01 53
02 03 20 71 4D 1F 10 03
84 05 11 13 14 02 12 20
21 22 23 09 07 07 83 01
00 00 65 03 0C 00 10 00
02 3A 80 18 71 38 2D 40
58 2C 45 00 00 00 00 00
00 1E 01 1D 80 18 71 1C
16 20 58 2C 25 00 00 00
00 00 00 9E 01 1D 80 D0
72 1C 16 20 10 2C 25 80
00 00 00 00 00 9E 8C 0A
D0 8A 20 E0 2D 10 10 3E
96 00 00 00 00 00 00 18
01 1D 00 BC 52 D0 1A 20
B8 28 55 40 00 00 00 00
00 1E 00 00 00 00 00 3D
6
BNQ
MX613ST
ADT
D5
ddc2