



Linn RC5 Codes

Revision 1.00

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1: Introduction and scope

1.1: Introduction

The aim of this document is to provide third party developers with a full list of IR (Infra-Red) RC5 commands, which are recognised by the Linn product range, enabling development of control solutions of their own design. For example, utilising a Philips Pronto.

1.2: Scope

The document will only refer to commands relevant to the Linn product range.

The document will not discuss the format of RC5 (please contact Philips Semiconductors for further details).

Notes:

¹ Reserved commands are shown in uppercase preceded an asterisk (used between products for CONNECT).

² Commands followed by **<AV>** are specific to the AV5103 System Controller.

³ Hexadecimal values are expressed as 0xHH, where HH is a two digit hexadecimal value

⁴ Decimal equivalent of hexadecimal values are shown within round brackets.

2: Commands by RC5 code

2.1: Codes 0x00...0x0F (0...15)

Code	Amplifier 0x10 (16)	Amplifier 0x13 (19)	Tuner 0x11 (17)	CD 0x14 (20)	DVD 0x19 (25)
0x00 (0)	Zero	Zero	Zero	Zero	Zero
0x01 (1)	One	One	One	One	One
0x02 (2)	Two	Two	Two	Two	Two
0x03 (3)	Three	Three	Three	Three	Three
0x04 (4)	Four	Four	Four	Four	Four
0x05 (5)	Five	Five	Five	Five	Five
0x06 (6)	Six	Six	Six	Six	Six
0x07 (7)	Seven	Seven	Seven	Seven	Seven
0x08 (8)	Eight	Eight	Eight	Eight	Eight
0x09 (9)	Nine	Nine	Nine	Nine	Nine
0x0A (10)					
0x0B (11)	Display		Display	Display	Display
0x0C (12)	Power (Toggle)	Power (Toggle) NMatrix_Power			
0x0D (13)	Mute (Toggle)				
0x0E (14)	Mute				
0x0F (15)		Matrix_Help			

2.2: Codes 0x10...0x1F (16...31)

Code	Amplifier: 0x10 (16)	Amplifier: 0x13 (19)	Tuner: 0x11 (17)	CD: 0x14 (20)	DVD: 0x19 (25)
0x10 (16)	Volume +	Volume + Matrix_Function2			
0x11 (17)	Volume -	Volume - Matrix_Function1			
0x12 (18)	Phono 1 Laser Auxiliary 2				Brightness +
0x13 (19)	Phono 2 Auxiliary 2				Brightness -
0x14 (20)	Tuner				Saturation +
0x15 (21)	CD				Saturation -
0x16 (22)	Tape 1				
0x17 (23)	Tape 2 VCR/Video				
0x18 (24)	Auxiliary (Toggle)				
0x19 (25)	DAT				
0x1A (26)	Balance R	Balance R Matrix_Power			
0x1B (27)	Balance L	Balance L Matrix_Function			
0x1C (28)	Mono	Mono	Mono	Repeat One	Repeat One
0x1D (29)	Cable		IF Bandwidth	Repeat All	Repeat All
0x1E (30)	TV		Scan +		
0x1F (31)	Satellite Norm <AV>		Scan -		Hue -

2.3: Codes 0x20...0x2F (32...47)

Code	Amplifier: 0x10 (16)	Amplifier: 0x13 (19)	Tuner: 0x11 (17)	CD: 0x14 (20)	DVD: 0x19 (25)
0x20 (32)	Source +	Matrix_Plus	Preset +	Skip +	Skip +
0x21 (33)	Source -	Matrix_Minus	Preset -	Skip -	Skip -
0x22 (34)	DVD		Minus	Index +	Index +
0x23 (35)				Index -	Index -
0x24 (36)	Auxiliary				
0x25 (37)	Surround		Mono/Stereo		
0x26 (38)	Timer				
0x27 (39)					Hue +
0x28 (40)			Plus		
0x29 (41)	Alarm			Store	Store
0x2A (42)	Clock	Matrix_Clock			
0x2B (43)	Plus				
0x2C (44)	Minus				
0x2D (45)			Kremlin_FM	Open	Open
0x2E (46)	Store		Band Kremlin_MW	Interrupt	
0x2F (47)			Kremlin_LW		

2.4: Codes 0x30...0x3F (48...63)

Code	Amplifier: 0x10 (16)	Amplifier: 0x13 (19)	Tuner: 0x11 (17)	CD: 0x14 (20)	DVD: 0x19 (25)
0x30 (48)	Digital 4			Pause	Pause
0x31 (49)	Norm <AV>				
0x32 (50)	Video Source <AV>			Search -	Search -
0x33 (51)	Digital 1 (Toggle)			Goto	Goto
0x34 (52)	Digital 2			Search +	Search +
0x35 (53)	Digital 3			Play	Play
0x36 (54)	Record To <AV>	Audio On		Stop	Stop
0x37 (55)	Record Record From <AV>	Record Audio Off	Store		
0x38 (56)	Listen Audio Source <AV>	What Matrix_Source	Preset		
0x39 (57)		Where Matrix_Domain	Signal		
0x3A (58)			Tune		
0x3B (59)		Matrix_Status_REQ	Scan	Repeat A-B	Repeat A-B
0x3C (60)	Quiet <AV>	Matrix_Status_SEND			
0x3D (61)	Feature Adjust		Feature Adjust	Feature Adjust	Feature Adjust
0x3E (62)	Status REQ	Status REQ	Status REQ	Status REQ	Status REQ
0x3F (63)	Status SEND	Status SEND	Status SEND	Status SEND	Status SEND

2.5: Codes 0x40...0x4F (64...79)

Code	Amplifier: 0x10 (16)	Amplifier: 0x13 (19)	Tuner: 0x11 (17)	CD: 0x14 (20)	DVD: 0x19 (25)
0x40 (64)	Direct Multilingual Toggle			Title	Title
0x41 (65)	Setup		Setup	Setup	Setup
0x42 (66)				Audio	Audio
0x43 (67)				Subtitle	Subtitle
0x44 (68)				Angle	Angle
0x45 (69)				Zoom	Zoom
0x46 (70)					Contrast +
0x47 (71)					
0x48 (72)					Gamma +
0x49 (73)					Gamma -
0x4A (74)					Contrast -
0x4B (75)					Sharpness +
0x4C (76)					Sharpness -
0x4D (77)					
0x4E (78)					
0x4F (79)		Do Nmatrix_function			

2.6: Codes 0x50...0x5F (80...95)

Code	Amplifier: 0x10 (16)	Amplifier: 0x13 (19)	Tuner: 0x11 (17)	CD: 0x14 (20)	DVD: 0x19 (25)
0x50 (80)	Up Select <AV>		Up	Up	Up
0x51 (81)	Down		Down	Down	Down
0x52 (82)	OSG <AV>			Menu	Menu
0x53 (83)				Return	Return
0x54 (84)	Help		Help	Help	Help
0x55 (85)	Left	Soft 1 NMatrix_function1	Left	Left	Left
0x56 (86)	Right	Soft 2 Nmatrix_function2	Right	Right	Right
0x57 (87)	Enter		Enter	Enter	Enter
0x58 (88)					
0x59 (89)					
0x5A (90)					
0x5B (91)					
0x5C (92)	*FP_STOP_BAND				
0x5D (93)	*FP_PLAY_MODE				
0x5E (94)	*FP_LEFT				
0x5F (95)	*FP_RIGHT				

2.7: Codes 0x60...0x6F (96...111)

Code	Amplifier: 0x10 (16)	Amplifier: 0x13 (19)	Tuner: 0x11 (17)	CD: 0x14 (20)	DVD: 0x19 (25)
0x60 (96)	*FP_OPEN				
0x61 (97)	*FP_STOP				
0x62 (98)	*FP_PAUSE				
0x63 (99)	*FP_PLAY				
0x64 (100)	*FP_SKIP+				
0x65 (101)	*FP_SKIP-				
0x66 (102)					
0x67 (103)		Status Request CS			
0x68 (104)		Status Send CS			
0x69 (105)					
0x6A (106)	Lipsync				
0x6B (107)	Bass +				
0x6C (108)	Bass -				
0x6D (109)	Treble +				
0x6E (110)	Treble -				
0x6F (111)	*PING_ACK				

2.8: Codes 0x70...0x7F (112...127)

Code	Amplifier: 0x10 (16)	Amplifier: 0x13 (19)	Tuner: 0x11 (17)	CD: 0x14 (20)	DVD: 0x19 (25)
0x70 (112)				Random	Random
0x71 (113)				Shuffle	Shuffle
0x72 (114)				Intro	Intro
0x73 (115)	*FP_TITLE_BAND			Include	Include
0x74 (116)				Exclude	Exclude
0x75 (117)	Video Adjust				
0x76 (118)	Audio Adjust Prog (AV)	<i>Rcu Direct Local</i>			
0x77 (119)	*PING Setup (AV)	<i>Rcu Direct Remote</i>			
0x78 (120)	*GET_CLOCK				
0x79 (121)	*GET_SOURCE_MODE	Status Request			
0x7A (122)		Status Send			
0x7B (123)		Read Rcu			
0x7C (124)		Write Rcu			
0x7D (125)	Power On				
0x7E (126)	Power Off				
0x7F (127)		Ack Rcu			

3: Commands by RC5 address (Product Type)

3.1: Address 0x10 (16): Amplifier

3.1.1: Codes 0x00...0x3F (0...63)

Code	Command	Code	Command	Code	Command	Code	Command
0x00 (0)	Zero	0x10 (16)	Volume +	0x20 (32)	Source +	0x30 (48)	Digital 4
0x01 (1)	One	0x11 (17)	Volume -	0x21 (33)	Source -	0x31 (49)	Norm <AV>
0x02 (2)	Two	0x12 (18)	Phono 1 Laser Auxiliary 2	0x22 (34)	DVD	0x32 (50)	Video Source <AV>
0x03 (3)	Three	0x13 (19)	Phono 2 Auxiliary 2	0x23 (35)		0x33 (51)	Digital 1 (Toggle)
0x04 (4)	Four	0x14 (20)	Tuner	0x24 (36)	Auxiliary	0x34 (52)	Digital 2
0x05 (5)	Five	0x15 (21)	CD	0x25 (37)	Surround	0x35 (53)	Digital 3
0x06 (6)	Six	0x16 (22)	Tape 1	0x26 (38)	Timer	0x36 (54)	Record To <AV>
0x07 (7)	Seven	0x17 (23)	Tape 2 VCR/Video	0x27 (39)		0x37 (55)	Record Record From <AV>
0x08 (8)	Eight	0x18 (24)	Auxiliary (Toggle)	0x28 (40)		0x38 (56)	Listen Audio Source <AV>
0x09 (9)	Nine	0x19 (25)	DAT	0x29 (41)	Alarm	0x39 (57)	
0x0A (10)		0x1A (26)	Balance R	0x2A (42)	Clock	0x3A (58)	
0x0B (11)	Display	0x1B (27)	Balance L	0x2B (43)	Plus	0x3B (59)	
0x0C (12)	Power (Toggle)	0x1C (28)	Mono	0x2C (44)	Minus	0x3C (60)	Quiet <AV>
0x0D (13)	Mute (Toggle)	0x1D (29)	Cable	0x2D (45)		0x3D (61)	Feature Adjust
0x0E (14)	Mute	0x1E (30)	TV	0x2E (46)	Store	0x3E (62)	Status REQ
0x0F (15)		0x1F (31)	Satellite	0x2F (47)		0x3F (63)	Status SEND

			Norm <AV>				
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3.1.2: Codes 0x40...0x7F (64...127)

Code	Command	Code	Command	Code	Command	Code	Command
0x40 (64)	Direct Multilingual Toggle	0x50 (80)	Up Select <AV>	0x60 (96)	*FP_OPEN	0x70 (112)	
0x41 (65)	Setup	0x51 (81)	Down	0x61 (97)	*FP_STOP	0x71 (113)	
0x42 (66)		0x52 (82)	OSG <AV>	0x62 (98)	*FP_PAUSE	0x72 (114)	
0x43 (67)		0x53 (83)		0x63 (99)	*FP_PLAY	0x73 (115)	*FP_TITLE_BAND
0x44 (68)		0x54 (84)	Help	0x64 (100)	*FP_SKIP+	0x74 (116)	
0x45 (69)		0x55 (85)	Left	0x65 (101)	*FP_SKIP-	0x75 (117)	Video Adjust
0x46 (70)		0x56 (86)	Right	0x66 (102)		0x76 (118)	Audio Adjust Prog (AV)
0x47 (71)		0x57 (87)	Enter	0x67 (103)		0x77 (119)	*PING Setup (AV)
0x48 (72)		0x58 (88)		0x68 (104)		0x78 (120)	*GET_CLOCK
0x49 (73)		0x59 (89)		0x69 (105)		0x79 (121)	*GET_SOURCE_MODE
0x4A (74)		0x5A (90)		0x6A (106)	Lipsync	0x7A (122)	
0x4B (75)		0x5B (91)		0x6B (107)	Bass +	0x7B (123)	
0x4C (76)		0x5C (92)	*FP_STOP_BAND	0x6C (108)	Bass -	0x7C (124)	
0x4D (77)		0x5D (93)	*FP_PLAY_MODE	0x6D (109)	Treble +	0x7D (125)	Power On
0x4E (78)		0x5E (94)	*FP_LEFT	0x6E (110)	Treble -	0x7E (126)	Power Off
0x4F (79)		0x5F (95)	*FP_RIGHT	0x6F (111)	*PING_ACK	0x7F (127)	

3.2: Address 0x13 (19): Amplifier

3.2.1: Codes 0x00...0x3F (0...63)

Code	Command	Code	Command	Code	Command	Code	Command
0x00 (0)	Zero	0x10 (16)	Volume + Matrix_Function2	0x20 (32)	Matrix_Plus	0x30 (48)	
0x01 (1)	One	0x11 (17)	Volume – Matrix_Function1	0x21 (33)	Matrix_Minus	0x31 (49)	
0x02 (2)	Two	0x12 (18)		0x22 (34)		0x32 (50)	
0x03 (3)	Three	0x13 (19)		0x23 (35)		0x33 (51)	
0x04 (4)	Four	0x14 (20)		0x24 (36)		0x34 (52)	
0x05 (5)	Five	0x15 (21)		0x25 (37)		0x35 (53)	
0x06 (6)	Six	0x16 (22)		0x26 (38)		0x36 (54)	Audio On
0x07 (7)	Seven	0x17 (23)		0x27 (39)		0x37 (55)	Record Audio Off
0x08 (8)	Eight	0x18 (24)		0x28 (40)		0x38 (56)	What Matrix_Source
0x09 (9)	Nine	0x19 (25)		0x29 (41)		0x39 (57)	Where Matrix_Domain
0x0A (10)		0x1A (26)	Balance R Matrix_Power	0x2A (42)	Matrix_Clock	0x3A (58)	
0x0B (11)		0x1B (27)	Balance L Matrix_Function	0x2B (43)		0x3B (59)	Matrix_Status_REQ
0x0C (12)	Power (Toggle) NMatrix_Power	0x1C (28)	Mono	0x2C (44)		0x3C (60)	Matrix_Status_SEND
0x0D (13)		0x1D (29)		0x2D (45)		0x3D (61)	
0x0E (14)		0x1E (30)		0x2E (46)		0x3E (62)	Status REQ
0x0F (15)	Matrix_Help	0x1F (31)		0x2F (47)		0x3F (63)	Status SEND

3.2.2: Codes 0x40...0x7F (64...127)

Code	Command	Code	Command	Code	Command	Code	Command
0x40 (64)		0x50 (80)		0x60 (96)		0x70 (112)	
0x41 (65)		0x51 (81)		0x61 (97)		0x71 (113)	
0x42 (66)		0x52 (82)		0x62 (98)		0x72 (114)	
0x43 (67)		0x53 (83)		0x63 (99)		0x73 (115)	
0x44 (68)		0x54 (84)		0x64 (100)		0x74 (116)	
0x45 (69)		0x55 (85)	Soft 1 NMatrix_function1	0x65 (101)		0x75 (117)	
0x46 (70)		0x56 (86)	Soft 2 Nmatrix_function2	0x66 (102)		0x76 (118)	<i>Rcu Direct Local</i>
0x47 (71)		0x57 (87)		0x67 (103)	Status Request CS	0x77 (119)	<i>Rcu Direct Remote</i>
0x48 (72)		0x58 (88)		0x68 (104)	Status Send CS	0x78 (120)	
0x49 (73)		0x59 (89)		0x69 (105)		0x79 (121)	Status Request
0x4A (74)		0x5A (90)		0x6A (106)		0x7A (122)	Status Send
0x4B (75)		0x5B (91)		0x6B (107)		0x7B (123)	Read Rcu
0x4C (76)		0x5C (92)		0x6C (108)		0x7C (124)	Write Rcu
0x4D (77)		0x5D (93)		0x6D (109)		0x7D (125)	
0x4E (78)		0x5E (94)		0x6E (110)		0x7E (126)	
0x4F (79)	Do Nmatrix_function	0x5F (95)		0x6F (111)		0x7F (127)	Ack Rcu

3.3: Address 0x11 (17): Tuner

3.3.1: Codes 0x00...0x3F (0...63)

Code	Command	Code	Command	Code	Command	Code	Command
0x00 (0)	Zero	0x10 (16)		0x20 (32)	Preset +	0x30 (48)	
0x01 (1)	One	0x11 (17)		0x21 (33)	Preset -	0x31 (49)	
0x02 (2)	Two	0x12 (18)		0x22 (34)	Minus	0x32 (50)	
0x03 (3)	Three	0x13 (19)		0x23 (35)		0x33 (51)	
0x04 (4)	Four	0x14 (20)		0x24 (36)		0x34 (52)	
0x05 (5)	Five	0x15 (21)		0x25 (37)	Mono/Stereo	0x35 (53)	
0x06 (6)	Six	0x16 (22)		0x26 (38)		0x36 (54)	
0x07 (7)	Seven	0x17 (23)		0x27 (39)		0x37 (55)	Store
0x08 (8)	Eight	0x18 (24)		0x28 (40)	Plus	0x38 (56)	Preset
0x09 (9)	Nine	0x19 (25)		0x29 (41)		0x39 (57)	Signal
0x0A (10)		0x1A (26)		0x2A (42)		0x3A (58)	Tune
0x0B (11)	Display	0x1B (27)		0x2B (43)		0x3B (59)	Scan
0x0C (12)		0x1C (28)	Mono	0x2C (44)		0x3C (60)	
0x0D (13)		0x1D (29)	IF Bandwidth	0x2D (45)	Kremlin_FM	0x3D (61)	Feature Adjust
0x0E (14)		0x1E (30)	Scan +	0x2E (46)	Band Kremlin_MW	0x3E (62)	Status REQ
0x0F (15)		0x1F (31)	Scan -	0x2F (47)	Kremlin_LW	0x3F (63)	Status SEND

3.3.2: Codes 0x40...0x7F (64...127)

Code	Command	Code	Command	Code	Command	Code	Command
0x40 (64)		0x50 (80)	Up	0x60 (96)		0x70 (112)	
0x41 (65)	Setup	0x51 (81)	Down	0x61 (97)		0x71 (113)	
0x42 (66)		0x52 (82)		0x62 (98)		0x72 (114)	
0x43 (67)		0x53 (83)		0x63 (99)		0x73 (115)	
0x44 (68)		0x54 (84)	Help	0x64 (100)		0x74 (116)	
0x45 (69)		0x55 (85)	Left	0x65 (101)		0x75 (117)	
0x46 (70)		0x56 (86)	Right	0x66 (102)		0x76 (118)	
0x47 (71)		0x57 (87)	Enter	0x67 (103)		0x77 (119)	
0x48 (72)		0x58 (88)		0x68 (104)		0x78 (120)	
0x49 (73)		0x59 (89)		0x69 (105)		0x79 (121)	
0x4A (74)		0x5A (90)		0x6A (106)		0x7A (122)	
0x4B (75)		0x5B (91)		0x6B (107)		0x7B (123)	
0x4C (76)		0x5C (92)		0x6C (108)		0x7C (124)	
0x4D (77)		0x5D (93)		0x6D (109)		0x7D (125)	
0x4E (78)		0x5E (94)		0x6E (110)		0x7E (126)	
0x4F (79)		0x5F (95)		0x6F (111)		0x7F (127)	

3.4: Address 0x14 (20): CD

3.4.1: Codes 0x00...0x3F (0...63)

Code	Command	Code	Command	Code	Command	Code	Command
0x00 (0)	Zero	0x10 (16)		0x20 (32)	Skip +	0x30 (48)	Pause
0x01 (1)	One	0x11 (17)		0x21 (33)	Skip -	0x31 (49)	
0x02 (2)	Two	0x12 (18)		0x22 (34)	Index +	0x32 (50)	Search -
0x03 (3)	Three	0x13 (19)		0x23 (35)	Index -	0x33 (51)	Goto
0x04 (4)	Four	0x14 (20)		0x24 (36)		0x34 (52)	Search +
0x05 (5)	Five	0x15 (21)		0x25 (37)		0x35 (53)	Play
0x06 (6)	Six	0x16 (22)		0x26 (38)		0x36 (54)	Stop
0x07 (7)	Seven	0x17 (23)		0x27 (39)		0x37 (55)	
0x08 (8)	Eight	0x18 (24)		0x28 (40)		0x38 (56)	
0x09 (9)	Nine	0x19 (25)		0x29 (41)	Store	0x39 (57)	
0x0A (10)		0x1A (26)		0x2A (42)		0x3A (58)	
0x0B (11)	Display	0x1B (27)		0x2B (43)		0x3B (59)	Repeat A-B
0x0C (12)		0x1C (28)	Repeat One	0x2C (44)		0x3C (60)	
0x0D (13)		0x1D (29)	Repeat All	0x2D (45)	Open	0x3D (61)	Feature Adjust
0x0E (14)		0x1E (30)		0x2E (46)	Interrupt	0x3E (62)	Status REQ
0x0F (15)		0x1F (31)		0x2F (47)		0x3F (63)	Status SEND

3.4.2: Codes 0x40...0x7F (64...127)

Code	Command	Code	Command	Code	Command	Code	Command
0x40 (64)	Title	0x50 (80)	Up	0x60 (96)		0x70 (112)	Random
0x41 (65)	Setup	0x51 (81)	Down	0x61 (97)		0x71 (113)	Shuffle
0x42 (66)	Audio	0x52 (82)	Menu	0x62 (98)		0x72 (114)	Intro
0x43 (67)	Subtitle	0x53 (83)	Return	0x63 (99)		0x73 (115)	Include
0x44 (68)	Angle	0x54 (84)	Help	0x64 (100)		0x74 (116)	Exclude
0x45 (69)	Zoom	0x55 (85)	Left	0x65 (101)		0x75 (117)	
0x46 (70)		0x56 (86)	Right	0x66 (102)		0x76 (118)	
0x47 (71)		0x57 (87)	Enter	0x67 (103)		0x77 (119)	
0x48 (72)		0x58 (88)		0x68 (104)		0x78 (120)	
0x49 (73)		0x59 (89)		0x69 (105)		0x79 (121)	
0x4A (74)		0x5A (90)		0x6A (106)		0x7A (122)	
0x4B (75)		0x5B (91)		0x6B (107)		0x7B (123)	
0x4C (76)		0x5C (92)		0x6C (108)		0x7C (124)	
0x4D (77)		0x5D (93)		0x6D (109)		0x7D (125)	
0x4E (78)		0x5E (94)		0x6E (110)		0x7E (126)	
0x4F (79)		0x5F (95)		0x6F (111)		0x7F (127)	

3.5: Address 0x19 (25): DVD

3.5.1: Codes 0x00...0x3F (0...63)

Code	Command	Code	Command	Code	Command	Code	Command
0x00 (0)	Zero	0x10 (16)		0x20 (32)	Skip +	0x30 (48)	Pause
0x01 (1)	One	0x11 (17)		0x21 (33)	Skip -	0x31 (49)	
0x02 (2)	Two	0x12 (18)	Brightness +	0x22 (34)	Index +	0x32 (50)	Search -
0x03 (3)	Three	0x13 (19)	Brightness -	0x23 (35)	Index -	0x33 (51)	Goto
0x04 (4)	Four	0x14 (20)	Saturation +	0x24 (36)		0x34 (52)	Search +
0x05 (5)	Five	0x15 (21)	Saturation -	0x25 (37)		0x35 (53)	Play
0x06 (6)	Six	0x16 (22)		0x26 (38)		0x36 (54)	Stop
0x07 (7)	Seven	0x17 (23)		0x27 (39)	Hue +	0x37 (55)	
0x08 (8)	Eight	0x18 (24)		0x28 (40)		0x38 (56)	
0x09 (9)	Nine	0x19 (25)		0x29 (41)	Store	0x39 (57)	
0x0A (10)		0x1A (26)		0x2A (42)		0x3A (58)	
0x0B (11)	Display	0x1B (27)		0x2B (43)		0x3B (59)	Repeat A-B
0x0C (12)		0x1C (28)	Repeat One	0x2C (44)		0x3C (60)	
0x0D (13)		0x1D (29)	Repeat All	0x2D (45)	Open	0x3D (61)	Feature Adjust
0x0E (14)		0x1E (30)		0x2E (46)		0x3E (62)	Status REQ
0x0F (15)		0x1F (31)	Hue -	0x2F (47)		0x3F (63)	Status SEND

3.5.2: Codes 0x40...0x7F (64...127)

Code	Command	Code	Command	Code	Command	Code	Command
0x40 (64)	Title	0x50 (80)	Up	0x60 (96)		0x70 (112)	Random
0x41 (65)	Setup	0x51 (81)	Down	0x61 (97)		0x71 (113)	Shuffle
0x42 (66)	Audio	0x52 (82)	Menu	0x62 (98)		0x72 (114)	Intro
0x43 (67)	Subtitle	0x53 (83)	Return	0x63 (99)		0x73 (115)	Include
0x44 (68)	Angle	0x54 (84)	Help	0x64 (100)		0x74 (116)	Exclude
0x45 (69)	Zoom	0x55 (85)	Left	0x65 (101)		0x75 (117)	
0x46 (70)	Contrast +	0x56 (86)	Right	0x66 (102)		0x76 (118)	
0x47 (71)		0x57 (87)	Enter	0x67 (103)		0x77 (119)	
0x48 (72)	Gamma +	0x58 (88)		0x68 (104)		0x78 (120)	
0x49 (73)	Gamma -	0x59 (89)		0x69 (105)		0x79 (121)	
0x4A (74)	Contrast -	0x5A (90)		0x6A (106)		0x7A (122)	
0x4B (75)	Sharpness +	0x5B (91)		0x6B (107)		0x7B (123)	
0x4C (76)	Sharpness -	0x5C (92)		0x6C (108)		0x7C (124)	
0x4D (77)		0x5D (93)		0x6D (109)		0x7D (125)	
0x4E (78)		0x5E (94)		0x6E (110)		0x7E (126)	
0x4F (79)		0x5F (95)		0x6F (111)		0x7F (127)	