

2011 Autumn BD-Player
BDP-140, BDP-52FD, BDP-53FD

11FBDP_External Command Support
Ver.1.02.00

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1-1, SHIN-OGURA, SAIWAI-KU, KAWASAKI-SHI, KANAGAWA-KEN, 212-0031 JAPAN.

Table 1-1 External Command support list – Command Mnemonic – For BDP-140

N o	Command Name	Command Mnemonic	Support		Remarks (The difference from the former models or ideal specification)	
			232	IP	V01.00, V01.03	V01.08
1	Power On	PN		✓	Only when "Quick Start" is On.	Only when "Quick Start" is On
2	Power Off	PF		✓		
3	Open	OP		✓	Return "R" while tray is moving. (Not "E04".)	Return "R" while tray is moving. (Not "E04".)
4	Close	CO		✓		
5	Stop	99RJ		✓	Return "E04" when in stop state. (Not "R".)	Return "E04" when in stop state. (Not "R".)
6	Play	PL		✓		
8	Still	ST		✓		
9	Step Forward	SF		✓	1) When Scan or Slow, it does not move to "Pause state". In that case, it moves into "Slow Forward/reverse" 2) Return "R", when in stop state. (Not "E04".)	1) When Scan or Slow, it does not move to "Pause state". In that case, it moves into "Slow Forward/reverse" 2) Return "R", when in stop state. (Not "E04".)
#	Step Reverse	SR		✓	1) When Scan or Slow, it does not move to "Pause state". In that case, it moves into "Slow Forward/reverse" 2) Return "R", when in stop state. (Not "E04".)	1) When Scan or Slow, it does not move to "Pause state". In that case, it moves into "Slow Forward/reverse" 2) Return "R", when in stop state. (Not "E04".)
#	Stop Scan	NS		✓	Return unspecified value, when in stop state.	
#	Key Lock	(arg)KL		✓		
#	Current Address Request	?A		✓	1) Index number is always "00" 2) When "Stop state", "000000000000" is returned instead of "E04" 3) Return chapter number instead of title number for BD and DVD.	Index number is always "00"
#	Title/Track Number Request	?R		✓		
#	Chapter Number Request	?C		✓		
#	Time Code Request	?T		✓		
#	Index Number Request	?I		✓	1) Index number is always "00"	1) Index number is always "00"
#	DVD Disc Status Request	?V		✓	1) "1XXXX" is returned when chapter/time search disabled disc is played back 2) Return "E04" when in tray open state or while tray is moving. (Not "XXXXX".)	1) "1XXXX" is returned when chapter/time search disabled disc is played back 2) Return "E04" when in tray open state or while tray is moving. (Not "XXXXX".)
#	BD Disc Status Request	?J		✓	1) "1XX11" is returned when chapter/time search disabled disc is played back 2) Return "E04" when in tray open state or while tray is moving. (Not "XXXXX".)	1) "1XX11" is returned when chapter/time search disabled disc is played back 2) Return "E04" when in tray open state or while tray is moving. (Not "XXXXX".)
#	Get Information	?D		✓		
#	CD Disc Status Request	?K		✓	Return "00000000" during DVD playback, (Not "E04".)	Return "00000000" during DVD playback, (Not "E04".)
#	Player Active Mode Request	?P		✓	1) When searching, "P04" is returned Return "P03" from the tray close starting to the reading completion of physical info of disc. (Not "P00".)	1) When searching, "P04" is returned Return "P03" from the tray close starting to the reading completion of physical info of disc. (Not "P00".)
#	Player Model Name Request	?L		✓		
#	Error Code Request	?E		✓		
#	Firmware Version Request	?Z		✓		
#	Slow	(arg)SW		✓		
#	Scan Forward	NF		✓	It does not move into maximum rate. It starts to minimum rate scan forward	It does not move into maximum rate. It starts to minimum rate scan forward
#	Scan Reverse	NR		✓	It does not move into maximum rate. It starts to minimum rate scan reverse	It does not move into maximum rate. It starts to minimum rate scan reverse
#	Remote Control Button	/(arg)/RU		✓	(See Table 3)	

Table 1-2 External Command support list – Command Mnemonic – For BDP-52FD/BDP-53FD

NOTE : 232C is a function only for BDP-52FD/BDP-53FD.

No	Command Name	Command Mnemonic	Support		Remarks (The difference from the former models or ideal specification) in V02.08
			232	IP	
1	Power On	PN	✓	✓	Only when "Quick Start" is On.
2	Power Off	PF	✓	✓	
3	Open	OP	✓	✓	Return "R" while tray is moving. (Not "E04".)
4	Close	CO	✓	✓	
5	Stop	99RJ	✓	✓	Return "E04" when in stop state. (Not "R".)
6	Play	PL	✓	✓	
8	Still	ST	✓	✓	
9	Step Forward	SF	✓	✓	1) When Scan or Slow, it does not move to "Pause state". In that case, it moves into "Slow Forward/reverse" 2) Return "R", when in stop state. (Not "E04".)
#	Step Reverse	SR	✓	✓	1) When Scan or Slow, it does not move to "Pause state". In that case, it moves into "Slow Forward/reverse" 2) Return "R", when in stop state. (Not "E04".)
#	Stop Scan	NS	✓	✓	
#	Key Lock	(arg)KL	✓	✓	
#	Current Address Request	?A	✓	✓	Index number is always "00"
#	Title/Track Number Request	?R	✓	✓	
#	Chapter Number Request	?C	✓	✓	
#	Time Code Request	?T	✓	✓	
#	Index Number Request	?I	✓	✓	1) Index number is always "00"
#	DVD Disc Status Request	?V	✓	✓	1) "1XXXX" is returned when chapter/time search disabled disc is played back 2) Return "E04" when in tray open state or while tray is moving. (Not "XXXXX".)
#	BD Disc Status Request	?J	✓	✓	1) "1XX11" is returned when chapter/time search disabled disc is played back 2) Return "E04" when in tray open state or while tray is moving. (Not "XXXXX".)
#	Get Information	?D	✓	✓	
#	CD Disc Status Request	?K	✓	✓	Return "00000000" during DVD playback, (Not "E04".)
#	Player Active Mode Request	?P	✓	✓	1) When searching, "P04" is returned Return "P03" from the tray close starting to the reading completion of physical info of disc. (Not "P00".)
#	Player Model Name Request	?L	✓	✓	
#	Error Code Request	?E	✓	✓	BDP is reply "?E". (It is not latest error value.) (Only in 232C)
#	Firmware Version Request	?Z	✓	✓	
#	Slow	(arg)SW	✓	✓	
#	Scan Forward	NF	✓	✓	It does not move into maximum rate. It starts to minimum rate scan forward.
#	Scan Reverse	NR	✓	✓	It does not move into maximum rate. It starts to minimum rate scan reverse.
#	Remote Control Button	/(arg)/RU	✓	✓	(See Table 3)

Table 2 External Command support list – RCU Code –

BDP-140_V1.00/1.03

NOTE 1: Always return "R" even if the player can not support the command. Except for NOTE 2 condition.

NOTE 2: When in key lock state, all RU commands except for Key Lock don't work and return "E04".

When in key lock state, all RU commands become available after receiving 99RJ, PL, ST, SF, SR, NF, NR.

BDP-140_V1.08/BDP-52FD_V2.08

NOTE 1: "R" is always return even if the player can not support the command. Except for NOTE 2 condition.

NOTE 2: When in key lock state, all RU commands except for Front Light and Key Lock, don't work and return "E04".

No.	Remote Key	Support		Remote Code	Remarks
		232C	IP		
	Example For IP & RS-232C	✓	✓		/A181AFBC/RU
1	POWER ON/OFF	✓	✓	A181AFBC	Same as POWER ON/OFF-on remote
2	CONTINUED	✓	✓	A181AFAA	Same as CONTINUED-on remote
3	OPEN/CLOSE	✓	✓	A181AFB6	Same as OPEN/CLOSE-on remote
4	AUDIO	✓	✓	A181AFBE	Same as AUDIO-on remote
5	SUBTITLE	✓	✓	A181AF36	Same as SUBTITLE-on remote
6	ANGLE	✓	✓	A181AFB5	Same as ANGLE-on remote
7	FL DIMMER	✓	✓	A181AFF9	Same as FL DIMMER-on remote
8	CD/SACD	✓	✓	A181AF2A	Same as CD/SACD-on remote
9	HDMI	✓	✓	A181AFF8	Same as HDMI-on remote
10	TOP MENU	✓	✓	A181AFB4	Same as TOP MENU-on remote
11	FUNCTION	✓	✓	A181AFB3	Same as FUNCTION-on remote
12	EXIT	✓	✓	A181AF20	Same as EXIT-on remote
13	HOME MEDIA GALLERY	✓	✓	A181AFF7	Same as HOME MEDIA GALLERY-on remote
14	POPUP MENU	✓	✓	A181AFB9	Same as POPUP MENU-on remote
15	UP	✓	✓	A184FFFF	Same as UP-on remote
16	LEFT	✓	✓	A187FFFF	Same as LEFT-on remote
17	ENTER	✓	✓	A181AFEF	Same as ENTER-on remote
18	RIGHT	✓	✓	A186FFFF	Same as RIGHT-on remote
19	DOWN	✓	✓	A185FFFF	Same as DOWN-on remote
20	HOME MENU	✓	✓	A181AFB0	Same as HOME MENU-on remote
21	RETURN	✓	✓	A181AFF4	Same as RETURN-on remote
22	COLOR 1 (PROGRAM)	✓	✓	A181AF60	Same as COLOR 1 (PROGRAM)-on remote
23	COLOR 2 (BOOKMARK)	✓	✓	A181AF61	Same as COLOR 2 (BOOKMARK)-on remote
24	COLOR 3 (ZOOM)	✓	✓	A181AF62	Same as COLOR 3 (ZOOM)-on remote
25	COLOR 4 (INDEX)	✓	✓	A181AF63	Same as COLOR 4 (INDEX)-on remote
26	REV SCAN	✓	✓	A181AFEA	Same as REV SCAN-on remote
27	PLAY	✓	✓	A181AF39	Same as PLAY-on remote
28	FWD SCAN	✓	✓	A181AFE9	Same as FWD SCAN-on remote
29	PREV/STEP/SLOW	✓	✓	A181AF3E	Same as PREV/STEP/SLOW-on remote
30	PAUSE	✓	✓	A181AF3A	Same as PAUSE-on remote
31	STOP	✓	✓	A181AF38	Same as STOP-on remote
32	NEXT/STEP/SLOW	✓	✓	A181AF3D	Same as NEXT/STEP/SLOW-on remote
33	1	✓	✓	A181AFA1	Same as 1-on remote
34	2	✓	✓	A181AFA2	Same as 2-on remote
35	3	✓	✓	A181AFA3	Same as 3-on remote
36	2nd VIDEO	✓	✓	A181AFBF	Same as 2nd VIDEO-on remote
37	4	✓	✓	A181AFA4	Same as 4-on remote
38	5	✓	✓	A181AFA5	Same as 5-on remote
39	6	✓	✓	A181AFA6	Same as 6-on remote
40	2nd AUDIO	✓	✓	A181AFBD	Same as 2nd AUDIO-on remote
41	7	✓	✓	A181AFA7	Same as 7-on remote
42	8	✓	✓	A181AFA8	Same as 8-on remote
43	9	✓	✓	A181AFA9	Same as 9-on remote
44	A-B	✓	✓	A181AFE4	Same as A-B-on remote
45	CLEAR	✓	✓	A181AFE5	Same as CLEAR-on remote
46	0	✓	✓	A181AFA0	Same as 0-on remote
47	ENTER	✓	✓	A181AFEF	Same as ENTER-on remote
48	REPEAT	✓	✓	A181AFE8	Same as REPEAT-on remote
49	DISPLAY	✓	✓	A181AFE3	Same as DISPLAY-on remote
50	KEYLOCK	✓	✓	A181AF22	Same as KEYLOCK-on remote
51	REPLAY	✓	✓	A181AF24	Same as REPLAY-on remote
52	SKIP SEACH	✓	✓	A181AF25	Same as SKIP SEACH-on remote
53	NET FLIX	✓	✓	A181AF6A	Same as NET FLIX-on remote

Annex A. RS232C setting (Normative)

A.1 Communication setting

Data length	8bits
Stop bit	1bit
Parity	None

A.2 Baud rate

9600bps ONLY

A.3 Cable

CROSS CABLE with D-Sub 9pins ONLY

IP Control uses Port 8102

For IP Control turn on the "Quick Start" mode to On in the Setup Navigator Menu.

Once connected, you may want to reload the Default Firmware. Go to "Options" in the Setup Menu then "Load Default". This helps has been found to help with some Networking issues.