

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

**11FBDP\_External Command Support**  
**Ver.1.02.00**

Copyright © 2011 Pioneer Corporation All rights reserved.

This document may not be copied or distributed in any fashion without the express written permission of Pioneer Corporation  
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

| No | 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".<br>In that case, it moves into "Slow Forward/reverse"<br>2) Return "R", when in stop state. (Not "E04".)       | 1) When Scan or Slow, it does not move to "Pause state".<br>In that case, it moves into "Slow Forward/reverse"<br>2) Return "R", when in stop state. (Not "E04".) |
| #  | Step Reverse               | SR               |         | ✓  | 1) When Scan or Slow, it does not move to "Pause state".<br>In that case, it moves into "Slow Forward/reverse"<br>2) Return "R", when in stop state. (Not "E04".)       | 1) When Scan or Slow, it does not move to "Pause state".<br>In that case, it moves into "Slow Forward/reverse"<br>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"<br>2) When "Stop state", "000000000000" is returned instead of "E04"<br>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<br>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<br>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<br>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<br>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<br>Return "P03" from the tray close starting to the reading completion of physical info of disc. (Not "P00".)                      | 1) When searching, "P04" is returned<br>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".<br>In that case, it moves into "Slow Forward/reverse"<br><br>2) Return "R", when in stop state. (Not "E04".) |
| #  | Step Reverse               | SR               | ✓       | ✓  | 1) When Scan or Slow, it does not move to "Pause state".<br>In that case, it moves into "Slow Forward/reverse"<br><br>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<br><br>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<br><br>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<br><br>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 |             |                                      |
|     | <b>Example For IP &amp; RS-232C</b> | ✓       | ✓  |             | <b>/A181AFBC/RU</b>                  |
| 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.