■ Enter ServiceMode The set disconnect AC, and Push front panel key ([OPEN/CLOSE] + [PLAY] + [STOP]) and AC IN The keys will be released if the character of "SERVICE" displays on a front panel display. After that, the screen in service mode is displayed on a monitor. Control via Remote Controller
Display Error Log Error log is displayed. The displayed logs can be saved in a USB memory.
Diag The unit test of the device mounted on the MainBoard. The unit test of the device mounted on the wireless board. (only wireless model)
Factory Initialize Return all of the player setting to their factory defaults. Caution) please check boot normally after that. (See: "Factory Initialize" Page)
■ Network Confirm Wired Network connection.
■ Version Up The set updates by Update DISC.
■System Information System information of the set is displayed. The Information on a soft version and drive information, etc. is displayed.
■ EMC Test Mode Not used.
Drive Write Drive OP Data and check drive.

SECTION 7 SERVICE MODE



Outline :

Service Mode Top Menu It selects to each function from here. output HDMI/Component 480p forcibly.

Operation :

[1]	Select and Activate Diag Menu.
[2]	Select and Activate Log Menu,
[3]	Select and Activate Factory Initialize Menu.,
[4]	Select and Activate Network Menu
[5]	Select and Activate Version Up (DISC version Up) Menu,
[6]	Select and Activate System Information Menu.
[7]	Select and Activate EMC Test Mode Menu. (not Used)
[8]	Select and Activate Drive Menu.
[UP]	Move Up cursor
[DOWN]	Move Down cursor
[ENT]	Activate the selected cursor.

*The cursor is not displayed when initial.

Front Panel Display :

If cursor or arbitrary menu keys are operated, the character will output to a front panel display, respectively.

*the character string.

SERVICE
S-DIAG
S-LOG
S-FINIT
S-NET
S-VUP
S-INFO
S-EMC
S-DRV

*Service Mode Menu

[1] Diag

[2] Log
[3] Factory Initialize
[4] Network
[5] Version Up
[6] System Information
[7] EMC Test Mode
[8] Drive

HELP : [DOWN] [ENT] [(NUM)]

Display Hint

(The key in which the present use is possible)

Outline ·		(WINdow I)
The device carrie	d in the substrate is tested.	* Diag
(Window 1) Sel	lect test category	Gategory: Device Test
Operation :		
[LEFT] [RIGHT]	Select Category	(Window 2)
[DOWN][ENT]	Activate the selected Category.	
[RET]	Return to Service Top Menu.	* Diag
(Window 2) De	vice Test	Category: Device Test
After "Device Tes	st" selects in window 1, the device to test is chosen.	
Operation:		
[LEFT][RIGHT]	Select Device	
[ENT]	Activate and Start Test	Rear USB Media check OK
[UP]	Return to test category selection.	Front USB Media check OK
[DOM/04]	IF select IFCON, Move Up cursor. (see windows 3)	
	IF select IFCON, Move Up cursor. (see windows 3)	
[REI]	Return to test category selection.	
>Test category	list	
Device Test		Checking
Video Test		
Audio Test		
Audio Input Test	(not Used) (anky Wincless Medel)	
WIFEIESS LAIN TES	(only wireless model)	
>Device Test :D	Device List	HELP: [RIGHT][UP][ENT][RET]
USB Host	: USB Media Check (Front and Rear)	L
	Only one time.	
D/A Converter	: DAC write check (non-verification)	(Window 3)
IFCON	: IFCON Test (see windows 3)	* Diag
FDP all ON		the proof
Show Strin	ngs	
LED Seque	encial	Category: Device lest
FAN Contro	ol ON	Device: IFCON
Fan State	(Display)	FDP all ON
		Show strings
		Fan Control UN
		FanState:0FF



Outline: Activate Wireless LAN Tests (Window 1)Select Wireless LAN Test Category Operation: [LEFT] [RIGHT] Select Category [DOWN][ENT] Activate the selected Category.	(Window 1) * Diag Category: Wireless LA	N Test
[RET] Return to Service Top Menu. (Window 2) Select Wireless LAN Test Operation: [1] Show Wireless LAN module Information [2] Connect Access Point [3] Start display RSSI value. [4] Start Ping Test [UP][DOWN] Select Test [ENT] Activate and Start Test [RET] Return to test category selection. > Show WLAN HwInfo (See Window 2) Serial : Serial Number Hard : Hardware Version Hard : Hardware Version Mac : Mac Address > Connect to AccessPoint (See Window 3) Connect Access Point only with the following AP settings. Authentication method: NO-ENCRYPT WEP key : abcdef1234 SSID : NETGEAR-DualBand-N PMK : ABCDE12345	<pre>(Window 2) * Diag Category: Wireless LAN Test [1] Show WLAN HwInfo [2] Connect to AccessPoint [3] Start Display RSSI Value [4] Start Ping Test [WLAN Module Info] Serial: 200912313165535 Hard : 0x04 Mac : 00:01:36:23:FD:CF HELP: [(NUM)][RET] (Window 4) * Diag Category: Wireless LAN Test</pre>	<pre>(Window 3) * Diag Category: WirelessLAN Test [1] Show WLAN HwInfo [2] Connect to AccessPoint [3] Start Display RSSI Value CERT : NO-ENCRYPT WEPKEY : abcdef1234 PMK : ABCDE12345 SSID : NETGEAR-DualBand-N IPADDR : 192.168.1.10 NETMASK: 255.255.255.0 BCADDR : 192.168.1.255 Status : Connected! HELP: [(NUM)][RET]</pre>
IP: 192.168.1.10 Net mask: 255.255.255.0 Broadcast : 192.168.1.255 • When connect to AP, Status is "Connected!" When cannot connect to AP, Status is "can't Connect!" > Start Display RSSI Value (See Window 4) Display RSSI value. > Start Ping Test (See Window 5) Ping Test. IP address use the value of "192.168.1.10".	[1] Show WLAN Hwinfo [2] Connect to AccessPoint [3] Stop Display RSSI Value [4] Start Ping Test RSSI chain0 : 60 RSSI chain1 : 60 RSSI combined : 60 HELP: [(NUM)][RET]	(Window 5) * Diag Category: Wireless LAN Test [1] Show WLAN HwInfo [2] Connect to AccessPoint [3] Stop Display RSSI Value [4] Start Ping Test Ping To : 192.168.1.10 PUNC 102.169.1.10 OV
Note: Set the parameter of access point as follow 1. Security mode : Disable 2. SSID : NETGEAR Dualband-N 3. IP adress 192.168.1.1		HELP: [(NUM)][RET]

Outline :	(Window 1)
Display each contents of the Error log,	* Select Log
(Window 1) select log.Operation :[1]Activate and Display Error log[UP]Move Up cursor[DOWN]Move Down cursor[ENT]Activate the selected cursor.[RET]Return to Service Top Menu.	[1] Error Log (Window 2) * Error Log
(Window 2) : Display Error Log Operation : [LEFT] Next Page [RIGHT] Previous Page [RET] Return to select log (window 1) [RED] Write the contents of an error log on a USB memory. Front Panel Display : select log Error Log : S-ELOG Display Page display page ex) 001/050	08/01/01 00:53:19: [ErrCode:090200023A00] 08/01/01 00:53:45: [ErrCode:090200023A00] 08/01/01 00:54:00: [ErrCode:090200023A00]
>Log contents Error Log : 08/01/01 00:53:19: [ErrCode:080400000000] [Date] [Time] [ErrCode]	
Write the contents of a log on a USB memory [RED] is pushed where a USB memory is inserted in a set in log display screen. Please do not push the RED button immediately after USB memory is inserted. Please do not pull out USB memory immediately after the RED button was pushed. Error Log: "getErrLogFile.trm" file is outputted in a USB memory.	

BDP-S770/S1700ES

Outline: (Window 1) Return all of the player setting to their factory defaults. * Factory Initialize (Window 1) select initialize. [1] Start Initialize **Operation** : When you return a set to the factory defaults, push [1] on this screen. [2] Start Initialize for TV Start Factory Initialize [1] [2] Start Factory Initialize for TV (not used) [UP] Move Up cursor [RET] Return to Top Menu [DOWN] Move Down cursor [ENT] Activate the selected cursor. [RET] Return to Service Top Menu. (Window 2) * Factory Initialize (Window 2) It is a screen of the end of initialization. [RET] Return to Service Top Menu. Please disconnect AC power supply, and connect AC again. Reboot to complete. - The operation of other service mode menu can be continued. Front Panel Display: Initialize : SETTING [RET] Return to Top Menu Initialize OK : INIT-OK (window 2) Initialize NG : INIT-NG **Caution:** When "Quick Stand By" sets ON, The additional processes of AC IN and OFF are needed. Please confirm the following processes for all sets. Initialize (This command) 1. AC Off 2. 3. AC In HELP : [RET] 4. Check FLD. If WAIT keep blinking, go to 5.else go to 8. 5. AC Off 6. AC In 7. Check FLD. AC Off. (finish) 8.



	Outline : Ping Test for the wired Ethernet.	(Window 1) * Network
(Window 1)Ping Test Operation: [LFFT] Select Hoonfig Test. [DOWN] Ping execution preparation. [RET] (Window 2) The IP address of the Ping point is set up. (IP address input mode) (Window 2) When "Ping to :>" is reversed.[ENT] is pushed and IP is inputted. Operation: [ENT] Finish to input. [RET] [ENT] Finish to input. (IV indow 3)? Ping Test Active When [START] is reversed.[ENT] is pushed and execute ping. Operation: [ENT] Finish to input. (Window 3)? Ping Test Active When [START] is reversed.[ENT] is pushed and execute ping. Operation: [ENT] Mindow 30 [ENT] Activate Ping Test [UP] The IP address of the Ping point is set up. [RET] (Window 3) [FIT] Activate Ping Test [UP] Image Test [UP] (Window 3) [FIT] Activate Ping Test [UP] Image Test [UP] Image Test [UP] Front Panel Display : S-NET S-NET S-NET	(Window 1)Ping Test Operation: [LEFT] Select If config Test. [DOWN] Ping execution preparation. [RET] Return to Service Top Menu. (Window 2) The IP address of the Ping point is set up. (IP address input mode) When "Ping to :>" is reversed, [ENT] is pushed and IP is inputted. Operation: [ENT] Finish to input. [RET] Finish to input. [RET] Finish to input. [LEFT] Finish to input. [ILEFT] Finish to input. [RET] Input Character sting '0-9' [TIME] Input Character sting '0-9' [TIME] Input Character sting '0-9' [TIME] Backspace (When [START] is reversed, [ENT] is pushed and execute ping . Operation: [ENT] [ENT] Activate Ping Test [UP] The IP address of the Ping point is set up. [RET] S-NET	Test: Ifconfig Ping Ping To : [START] (Window 2) * Network Test: Ifconfig Ping Ping To :> 192.168.200.13 [ENT] : Release [RET] : Release (Window 3) * Network Test: Ifconfig Ping Ping To : 192.168.200.13 [START] PING 192.168.200.13 OK! [HELP]: [ENT]:Start [UP][LEFT]

Outline: update software u	using DISC	(Window 1) * Version Update	
Outline: update software u (Window 1)Versy Operation: [ENT] [RET] (Window 2)Placy Operation : [ENT] [RET] (Window 3) Disy Operation: (Window 4) Disy Operation: Front Panel Disy DISC Insert Can't Mount DISC Check NG DISC Check OK	<pre>ising DISC sion Up Menu Start Update →(Tray Open and go to window 2) Return to Service Top Menu. ce the Update Disc Tray Close and check DISC. Cancel Update (Tray Close and return to window 1) c Check and OK (Right DISC) start update sequence automatically and reboot. After reboot, please open tray and eject Update Disc manually. c Check and NG (not update DISC) [Error] ··· (error message) and wait. open tray automatically. play : V-INSCD V-NODSC V-CHKNG V-CHKOK</pre>	<pre>(Window 1) * Version Update [ENT] Start Update [RET] Return to Top Menu (Window 2) * Version Update Insert update DISC [ENT] Tray Close and Check start [RET] Cancel (Window 3) * Version Update Now, mounting and checking OK (Window 4) * Version Update Insert update DISC [ENT] Tray Close and Check start [RET] Cancel [Ent] Cancel [Ent] Tray Close and Check start [RET] Cancel [Ent] Cancel [Ent] Tray Close and Check start [RET] Cancel [Ent] Tray Close and Check start [RET] Cancel [Ent] Tray Close and Check start [RET] Cancel [Ent] Cancel [En</pre>	
		HELP: [ENT] [RET]	

				Window 1)
Outline:			*	System Information
Display System I	Information			
(Window 1)Ba	sic Information M	enu		lodel : BDP5G-SU
Operation:	SIC INFORMACIÓN PI	enu		coulonce Number ' statestatest
[RIGHT]	Drive Informatic Wireless device displayed, (go tr	n (delta IOP of a drive is measure Information (only wireless model) window 2)	d) and	ac : 00-1a-80-d0-47-65 P : 192. 168. 102. 32
[RET]	Return to Servic	e Top Menu.		Fcon -Block0 version;0x57,
[B	ootloader version:**
(Window 2)Dri	ive and Wireless I	nformation Menu		ost Main version: MO3. R. ***
Operation:				OST SUD VERSION 2009******
	Basic Informatio	n displayed. (go to window 1)	M	liddleware version.****
[KEI]	Return to Servic	е тор мени.		
When delta IOP	is measured, it beco	mes impossible to use the Version	Up function.	ELP. [KEI][KIGHI]
Contents List:				(Window 2)
Model				(Williauw Z)
Destination				* System Information
Sequence Numb	er			WIAN modulo Sorial:200
MAC				WIAN module by your ion
IP				WLAN module NAC Address
IFCON Bootloader	Bootloader Version	ion		WLAN MODULE MAC Address
Host Main	Host Main Versi	on		OD DIOD: Overstatist
Host Sub	Host Sub Versio	in		
Middleware	Middleware Ver	sion		
WLAN module Se	erial	(only wireless model)		
WLAN module h	w version	(only wireless model)		
WLAN module M	AC Address	(only wireless model)		DU LU IIME UX********
Drive	FIRM REVISION			
	Delta IOP			
BD DIOP	Delta IOP			NELF: [KEI][LEFI]
CD LD TIME	LD Time			
DVD LD TIME	LD Time			
BD LD TIME	LD Time			
Front Panel Di	snlav ·			
Display Host Mai	in Version			
,,				

Block1 version:0x0*

0911300000335 1:04 ss:00:1a:80:d0:47:65 1910 ****

Overview:

This menu is used to operate the drive using drive-related diagnostic and tools

Screen 1: Selecting items under *Service Menu Screen 2: Selecting items under *Drive Operations: [UP] [DOWN] [ENT] [RET]

Move the cursor up and down Open the selected cursor item Return to top menu

Test item list	Display Panel
[1] Drive OP data Write	: D-OPWRT
[2] Servo Parameter Check Menu	: D-SEVPA
[3] Servo Signal Check Menu	: D-SEVSG
[4] S-Curve Check Menu	: D-SCUR
[5] Readability Check Menu	: D-READ
[6] OP Position Check Menu	: D-OPPOS
[7] OP Check Menu	: D-OP
[8] Load Eject Aging	: D-LOAD
[9] Spindle Control Check Menu	: D-SPIND
[10] FA Test Mode	: D-FAMOD

Screen 3: *Drive OP data Write				
Purpose: Write OP data into flash IC				
[UP] [DOWN]	Move the cursor up and down			
[ENT]	Start the selected cursor item			
[RET]	Return to top menu			

Remarks:

Mode 1 --> Basic & Entry model (BD modulation frequency 410Mhz) Mode 1 --> Step Up model (BD modulation frequency 429Mhz)

Screen 1

*Service Menu [1]Diag [2]Log [3]Factory Initialize [4]Network [5]Version Up [6]System Information [7]EMC Test Mode [8]Drive

Screen 2

*Drive [1]Drive OP data Write [2]Servo Parameter Check Menu [3]Servo Signal Check Menu [4]S - Curve Check Menu [5]Readability Check Menu [6]OP Position Check Menu [7]OP Check Menu [8]Load Eject Aging [9]Spindle Control Check Menu [10]FA Test Mode

Screen 3 *Drive OP data Write Insert USB StorageDevice ... Remove DISC and Close tray. [1]Disc: Eject [2] Mode: 1 [ENT] Start

Able to select mode 1 or 2 BD modulation frequency Mode 1 --> 410Mhz Mode 2 --> 429Mhz

Screen 4: *Servo Parameter Che Purpose: Verify servo parameter [UP] [DOWN] [LEFT] [RIGHT] [ENT] [RET]	eck Menu Move the cursor up and Move the cursor left an Start the selected curso Return to top menu	Not Use d down d right or item
Screen 5: *Servo Signal Check M Purpose: Verify servo signal [UP] [DOWN] [LEFT] [RIGHT] [ENT] [RET]	lenu Move the cursor up and Move the cursor left an Start the selected curso Return to top menu	Not Use d down d right or item
Screen 6: *S-Curve Check Menu Purpose: Verify S-Curve signal [UP] [DOWN] [LEFT] [RIGHT] [RNT] [RET]	Move the cursor up and Move the cursor left an Start the selected curso Return to top menu	Not Use d down d right or item

Screen 4

*Servo Parameter Check Menu [1]Disc : Eject [2]Show Parameters

Screen 5

*Servo Signal Check Menu [1]Disc : Eject [2]Servo Signal Monitor out : OFF [3]RTADJ : OFF [4]FocusBias : 0000 [5]SA - Act.move : FWD 00 step

[6]Pl Level : 0000 [7]RF Level : 0000 [8]TRV Level : 0000 [9] Current FB : 0000 SA : 0000

Screen 6 *S - Curve Check Menu [1]Disc : Eject

[2]Media Type : BD - ROM SL [3]Layer : L0 [4]SLD move to Home [5]SLD move : FWD 00 step

[6]FCS Search start

Screen 7: *Readability Check Menu Not Use Purpose: Verify readability data [UP] [DOWN] Move the cursor up and down [LEFT] [RIGHT] Move the cursor left and right Start the selected cursor item [ENT] [RET] Return to top menu Screen 8: *OP Position Check Menu Not Use Purpose: Verify OP position [UP] [DOWN] Move the cursor up and down [LEFT] [RIGHT] Move the cursor left and right [ENT] Start the selected cursor item [RET] Return to top menu Screen 9: *OP Check Menu Purpose: Verify OP related such as delta IOP and LD time [UP] [DOWN] Move the cursor up and down [ENT] Start the selected cursor item [RET] Return to top menu

Screen 7

*Readability Check Menu [1]Disc : Eject

[2]Address : 00000000 [3]Length : 0000

[4]Execute Jitter P: 0000 Jitter PR: 0000 Jitter DC: 0000 SER: 0000 0000

Screen 8 *OP Position Check Menu [1]Disc : Eject

[2]OP Position Check

Screen 9

*OP Check Menu Remove DISC and Close tray [1]Disc Eject [2]OP Serial : xxxxxxxxxxxxx [3]dlOP BD : x[xx] DVD : x[xx] CD : x[xx] TEMP : xx.x deg [4]LD ON Time BD : xxxxh xxm DVD : xxxxh xxm CD : xxxxh xxm

Screen 10: *Load Eject Aging Not Use Purpose: Perform load eject aging [UP] [DOWN] Move the cursor up and down [LEFT] [RIGHT] Move the cursor left and right [ENT] Start the selected cursor item [RET] Return to top menu Screen 11: *Spindle Control Check Menu Not Use Purpose: Verify spindle rotation [UP] [DOWN] Move the cursor up and down [LEFT] [RIGHT] Move the cursor left and right [ENT] Start the selected cursor item [RET] Return to top menu Screen 12: *FA Mode Test Not Use Purpose: Perform FA(Drive) aging [UP] [DOWN] Move the cursor up and down [ENT] Start the selected cursor item [RET] Return to top menu

Screen 10

*Load Eject Aging [1]Disc : Eject [2]Repeat set : 00000 [3]Mecha type : Tray mecha [4]Aging type : Normal

[5]Start

Screen 11

*Spindle Control Check Menu [1]Disc : Eject

[2]rpm:0000 rpm

[3]Spindle : OFF

Screen 12 *FA Mode Test

[1]Enter Repeat FA mode Repeat number : 0000

[2]Save FE log to USB

issue	Error LogCode						
	Category	ErrorCode	ErrorInfo_0	ErrorInfo_1	ErrorInfo_2	ErrorInfo_3	note
CXD9983/CXD9984 Error	0×01	0x**					
DDR2 Error	0×02	0x**					
Ifcon transmition time out	0×03	0×01	0×00	0×00	0×00	0×00	No response from Ifcon
Ifcon Error	0×03	0x**					Other Error
NAND Init Fail	0×04	0×00	0×00	0×00	0×00	0×00	NAND initialization failed
NAND Error	0×04	0x**					Other Error
NOR write Error	0×05	0x01 flash offset(0 ^{~~} MAX_FLASH_SIZE)					flash wirte error
NOR Erase Error	0×05	0x02 flash offset(0 ^{~~} MAX_FLASH_SIZE)					flash erase error
NOR Error	0×05	0x**					Other Error
DRIVE Error	0×06	0x01 Error Code					Cannot detect optical drive
DRIVE Error	0×06	0x02 Error Code					SATA cable disconnected
DRIVE Error	0×06	0x03 SCR Diag Field(Simultaneous error)					SATA IF ERROR
DRIVE Error	0×06	0x**					Other Error
Fan error	0×07	0×01	0×01	0×00	0×00	0×00	Temperature is too high
Fan error	0×07	0x01	0×02	0×00	0×00	0×00	Can not change fan state
Ethernet Error	0×08	0x**					
MEDIA - OPTICAL DISC	0×09	0x01 Read Error LBA					Disc read error
MEDIA - OPTICAL DISC	0×09	0x02	Cmd Error Sense Key				Other commands read error
USB media read error	0×0A	0×01	0×1	0×1	0×00	0×00	ErrorInfo_0: LUN number ErrorInfo_1: LBA address
USB media write error	0×0A	0×02	0×1	0×1	0×00	0×00	ErrorInfo_0: LUN number ErrorInfo_1: LBA address
Unsupported USB device	0×0A	0×FF	0×1	0x1	0×1	0x1	ErrorInfo_0: Device Class ErrorInfo_1: bDeviceSubClass ErrorInfo_2: bDeviceProtocol ErrorInfo_3: bNumConfigurations
USB error	0x0A	0x**					Other Error

SECTION 8 ERROR LOG LIST