

d&b D12 Firmware V2.32, Release notes

Changes of V2.32 against previous D12 firmware V2.31

- B22-SUB setup added.

11/2015

Changes of V2.31 against previous D12 firmware V2.30

- V7P and V10P setups added.

Bug fixes:

- Sporadic wrong delay setting by R1 snapshots corrected.

09/2015

Changes of V2.30 against previous D12 firmware V2.29

- MAX2 setup added.

04/2015

Changes of V2.29 against previous D12 firmware V2.28

Bug fixes:

- Selection of B6-SUB setup in MIX/TOP/SUB mode corrected.
- 16C limiter improved.

10/2014

Changes of V2.28 against previous D12 firmware V2.27

- Y7P, Y10P, Y8, Y12, Y-SUB and B6-SUB setups added.

Bug fixes:

- 16C limiter settings ⇒ Update recommended!

08/2014

Changes of V2.27 against previous D12 firmware V2.26

- 16C setup added.

06/2014

Changes of V2.26 against previous D12 firmware V2.25

- 24C and 24C-E setups added.

Changes of V2.25 against previous D12 firmware V2.23

- E4 setup improved.
- 5S, 8S, 10S-D and 12S-D setups improved.
- V8/V12 setups improved. The modifications reflect the experiences collected over the last months with larger V-Series arrays used with rather small total vertical splay. Improved sonic compatibility with J-Series.
- V-SUB and Linear setups limiter sections improved.

Changes of V2.23 against previous D12 firmware V2.21

- V-Series setups added.
- E5 setup added.
- E4 and 5S setups improved.
- TSM Detection is now set to "off" by factory default.
Note: In conjunction with the d&b "Z534x NLT8F/M Loudspeaker multicore system" this setting must be kept.

Changes of V2.21 against previous D12 firmware V2.20

- E4 setup added.
- New menu item "Channel Name".

Changes of V2.20 against previous D12 firmware V2.19

- The following setups for the xS- and xA-Series loudspeakers have been added: 4S, 5S, 8S, 10S/A, 10S/A-D, 10A Lin, 10A Arc, 10ADLin, 10ADArc, 12S, 12S-D, 18S-SUB, 27S-SUB, 12S-SUB.

Changes of V2.19 against previous D12 firmware V2.18

- E6 setup added.

Changes of V2.18 against previous D12 firmware V2.17

- B4-SUB setup added.
- M6 setup added (active and passive).
- E12-SUB setup adapted to support the E12X-SUB.
- E8-X setup added (E8 with E12X-SUB passive setup).
- J-INFRA setup improved.

Changes of V2.17 against previous D12 firmware V2.16

- Improved Q- and T-Series limiter algorithm.
- T1OPS setup improved.

Changes of V2.16 against previous D12 firmware V2.15

- T-Series setups added.
- J-INFRA setup added.
- E8 CPL filter now with boost.
- Bus load of the CAN-Bus is displayed in the remote menu.
- Improved compatibility with RIB networks.

Changes of V2.15 against previous D12 firmware V2.14

Bugfixes:

Firmware version 2.14 created a faulty log file for channel B. After upgrading from firmware version 2.14 the log file should be cleared using R10 and the current firmware installer. Please note that firmware versions 2.13 and earlier had not been affected by this bug, there is no action necessary.

Changes of V2.14 against previous D12 firmware V2.13

- E8 setup added.
- J12 Line setup added. The J12 standard setup is now entitled J12 Arc.
- E12-D setup slightly modified.

Bugfixes:

Formula for bandwidth display of parametric equalizer filters corrected.

Changes of V2.13 against previous D12 firmware V2.12

E12, E12-D and E15X-SUB setups added (E8 will follow with next firmware version):

- E12
- E12-D
- E12-X (E12 with E15X-SUB passive setup)
- E12-DX (E12-D with E15X-SUB passive setup)
- E15-SUB (E15X-SUB active setup)

Bugfixes:

1. Pin assignment of B2 with NL8 connectors triggered the TOP/SUB mismatch detection. Pin assignment now ignored when B2 is selected.
2. Local D12 display of delay time in feet had a conversion error. Now corrected.

Changes of V2.12 against previous D12 firmware V2.11

1. Upgraded setups for J8 and J12 loudspeakers. The modifications reflect the experiences collected over the last year with large J-Series arrays employing extended J8-Line sections. J8 setups now cover remote audience with increased hi-mid energy. HFC and CPL functions of all J-Series setups have been adapted to complement the modification. We strongly recommend to only use identical D12 firmware versions within one array.
2. Active and passive M4 setups slightly modified.
3. The digital inputs now are supervised for correct synchronising with the input signal. Short term interruptions or loss of quality will be indicated by flashing ISP-LEDs together with the message "sync?" instead of showing the detected sampling rate.
4. B2-SUB setup: improved System Check measurement accuracy.
5. D12 amplifiers now provide AmpPresets that contain all important user settings of the whole device such as input, output and channel configurations, EQ and delay settings. There are three types of AmpPreset memories:
 - User AmpPreset: nine AmpPresets which can be accessed locally or via remote control (R10 Service software from V1.0.6 only at this point of time). These AmpPresets are used to set the complete D12 to a previously defined configuration for a particular application and can be named individually. The D12 menu item AmpPresets indicates the last loaded AmpPreset number, followed by a * if any settings have been modified since loading. The menu below provides the functions "load", "save", "clear" and a name field to administer the AmpPresets.
 - Alarm AmpPreset: three AmpPresets which can only be accessed via remote network (R10 Service software from V1.0.6). Intended for use in alarm systems to protect the system settings against local modifications.
 - Backup AmpPreset: three AmpPresets which can only be accessed via remote network (R10 Service software from V1.0.6). Intended for temporary use to backup the current system settings when another AmpPreset is loaded.

A reset of the D12 or a future firmware upgrade will preserve existing AmpPresets.

Bugfixes:

When fed with non-symmetrical analog input signal the input stage provided less headroom than with symmetrical signal. Now fixed.

Changes of V2.11 against previous D12 firmware V2.10

Bugfixes:

1. Communication errors on the CAN-Bus could have caused strange characters on the D12 display. Now fixed.
2. Remote changes of some parameters (e.g. gain) were sometimes not displayed correctly on the D12 local LCD. Now fixed.

Changes of V2.10 against previous D12 firmware V2.05

1. Q1 Line configuration added. Please refer to the latest versions of the Q1 manual (V2.1) or TI 385 for details.
2. Long term thermal limiter Q- and J-Series added.
3. M4 configurations added (passive mode and 2-way active)
4. MAX configuration added. In addition to the "Linear" mode there is now a dedicated MAX configuration for passive mode. It provides low-end equalisation and limiter settings specially tuned for the MAX cabinets used as stage monitors thus providing improved performance and headroom. The MAX 2-way active had been modified correspondingly.

Changes of V2.05 against previous D12 firmware V2.04

System check for J-Series midrange drivers enabled

Changes of V2.04 against previous D12 firmware V2.03

J-Series configurations added

Changes of V2.03 against previous D12 firmware V2.02

Fixes a bug within the Load monitoring for Q7, Q10, Ci45, Ci60, Ci90 and E0 loudspeakers

Changes of V2.02 against previous D12 firmware V1.06

Updates to D12 functions

- Linear available in Mix TOP/SUB mode
- System check enabled
- Load monitoring enabled
- Input monitoring enabled
- All individual channel settings such as delay, EQ, CPL etc. can be cleared with a single key press in the speaker setup menu
- TOP/SUB mismatch detection selectable
- Faster screen refresh
- Quick return to main menu screen from all sub menus with a key press of more than one second on the back symbol
- Remote settings do not need to be saved

D12 Loudspeaker list

Setup name	Filter_1	Filter_2	Filter_3	D12 from Firmware
B1-SUB	–	–	–	V0.90
B2-SUB	INFRA	CSA	–	V0.90
B4-SUB	100 Hz	–	–	V2.18
C3 (High)	HFC	–	CPL	V0.90
C3 (Low)	HFC	LFC	CPL	V0.90
C4-SUB	+B2	–	–	V0.90
C4-TOP	–	HFC	CPL	V0.90
C6	CUT	HFA	CPL	V0.90
C7-SUB	100 Hz	–	–	V0.90
C7-TOP	CUT	HFA	CPL	V0.90
Ci45	CUT	HFA	CPL	V0.90
Ci60	CUT	HFA	CPL	V0.90
Ci80	CUT	HFA	CPL	V0.90
Ci90	CUT	HFA	CPL	V0.90
E0	CUT	HFA	CPL	V0.90
E3	CUT	HFA	CPL	V0.90
E6	CUT	HFA	CPL	V2.19
E8	CUT	HFA	CPL	V2.14
E8-X	–	HFA	CPL	V2.18
E9	CUT	HFA	CPL	V0.90
E12	CUT	HFA	CPL	V2.13
E12-X	CUT	–	–	V2.13
E12-D	CUT	HFA	CPL	V2.13
E12-DX	CUT	–	–	V2.13
E15-SUB	100 Hz	–	–	V2.13
E12-SUB	140 Hz	–	–	V0.90
E18-SUB	–	–	–	V0.90
F1220 (High)	CUT	HFC	CPL	V1.03
F1220 (Low)	CUT	HFC	CPL	V1.03
F1222 (High)	CUT	HFC	CPL	V0.90
F1222 (Low)	CUT	HFC	CPL	V0.90
J8-Arc (High)	CUT	HFC (1-2)	CPL	V2.04
J8-Arc (Low)	CUT	HFC (1-2)	CPL	V2.04
J8-Line (High)	CUT	HFC (1-2)	CPL	V2.04
J8-Line (Low)	CUT	HFC (1-2)	CPL	V2.04
J12-Arc (High)	CUT	HFC (1-2)	CPL	V2.14
J12-Arc (Low)	CUT	HFC (1-2)	CPL	V2.14
J12-Line (High)	CUT	HFC (1-2)	CPL	V2.14
J12-Line (Low)	CUT	HFC (1-2)	CPL	V2.14
J-SUB (Front)	INFRA	HCD	–	V2.04
J-SUB (Back)	INFRA	HCD	–	V2.04

Setup name	Filter_1	Filter_2	Filter_3	D12 from Firmware
J-INFRA (Front)	70 Hz	HCD	–	V2.16
J-INFRA (Back)	70 Hz	HCD	–	V2.16
Linear	CUT	HFA	CPL	V0.90
M2 (High)	CUT	–	CPL	V0.90
M2 (Low)	CUT	–	CPL	V0.90
M4 active (High)	CUT	HFA	CPL	V2.10
M4 active (Low)	CUT	HFA	CPL	V2.10
M4 passive	CUT	HFA	CPL	V2.10
M6 active (High)	CUT	HFA	CPL	V2.18
M6 active (Low)	CUT	HFA	CPL	V2.18
M6 passive	CUT	HFA	CPL	V2.18
MAX active (High)	CUT	HFA	CPL	V0.90
MAX active (Low)	CUT	HFA	CPL	V0.90
MAX passive	CUT	HFA	CPL	V2.10
Q-SUB	100 Hz	CSA	–	V0.90
Q1	CUT	HFC	CPL	V0.90
Q1-Line	CUT	HFC	CPL	V2.10
Q10	CUT	HFC	CPL	V1.03
Q7	CUT	HFC	CPL	V0.90
T10 PS	CUT	HFC	CPL	V2.16
T10 Arc	CUT	HFC	CPL	V2.16
T10 Line	CUT	HFC	CPL	V2.16
T-SUB	100 Hz	–	–	V2.16
4S	CUT	HFC	CPL	V2.20
5S	CUT	HFC	CPL	V2.20
8S	CUT	HFC	CPL	V2.20
10S/A	CUT	HFC	CPL	V2.20
10S/A-D	CUT	HFC	CPL	V2.20
10A Lin	CUT	HFC3	CPL	V2.20
10A Arc	CUT	HFC3	CPL	V2.20
10ADLin	CUT	HFC3	CPL	V2.20
10ADArc	CUT	HFC3	CPL	V2.20
12S	CUT	HFC	CPL	V2.20
12S-D	CUT	HFC	CPL	V2.20
18S-SUB	100 Hz	–	–	V2.20
27S-SUB	100 Hz	–	–	V2.20
12S-SUB	100 Hz	–	–	V2.20
E4	CUT	HFA	CPL	V2.21
E5	CUT	HFA	CPL	V2.22
V8 Arc	CUT	HFC2	CPL	V2.22
V8 Line	CUT	HFC2	CPL	V2.22
V-SUB	100 Hz	–	–	V2.22

Setup name	Filter_1	Filter_2	Filter_3	D12 from Firmware
V12 Arc	CUT	HFC2	CPL	V2.22
V12 Line	CUT	HFC2	CPL	V2.22
24C	CUT	HFA	CPL	V2.26
24C-E	CUT	HFA	CPL	V2.26
16C	CUT	HFA	CPL	V2.27
Y7P	CUT	HFC	CPL	V2.28
Y10P	CUT	HFC	CPL	V2.28
B6-SUB	100 Hz	CSA	–	V2.28
Y8 Arc	CUT	HFC2	CPL	V2.28
Y8 Line	CUT	HFC2	CPL	V2.28
Y12 Arc	CUT	HFC2	CPL	V2.28
Y12 Line	CUT	HFC2	CPL	V2.28
Y-SUB	100 Hz	–	–	V2.28
MAX2	CUT	HFC	CPL	V2.30
V7P	CUT	HFA	CPL	V2.31
V10P	CUT	HFA	CPL	V2.31
B22-SUB	INFRA	CSA	–	V2.32