

June 2023

DXD-16 - FirmwareVersion 3.00

IMPORTANT NOTE Updating from a version earlier than 2.00 must be done via the UPLOADER MODE (reboot unit while holding the [DOWN] and the [SET UP] keys).

We are pleased to announce the release of **firmware version 3.00** for the DXD-16.

New functions:

- **Remote Control**: Firmware 3.00 brings Remote Control functionality to the DXD Universal Clocks via embedded web pages. This new GUI allows an operator to control and monitor the DXD from a standard web browser by pointing to the IP address of the device.
 - A home page provides an overview of the main DXD settings
 - A header at the top of each page displays critical information such as the lock status
 - Set up pages give access to all the parameters for editing
 - Multiple pages can be opened simultaneously to view different groups of settings
 - 3 modes are available: Full Access / Status Only / Status + Preset Recall
- **IGMP v3**: The DXD-16 is now compatible with IGMP v3.

Menus changes:

• Menu 12.2: Control Lockout: This menu adds restrictions for the web pages.

Please refer to the new DXD-16 manual for complete instructions.

(See next pages for details on previous releases)

For more information, contact:**plus24**8974 Kramerwood Place - Los Angeles CA 90034 - USATel: +1 323/845-1171Web: www.plus24.net - Email: info@plus24.net



Release Notes For DXD-16 Oct 2022

DXD-16 - FirmwareVersion 2.18

IMPORTANT NOTE Updating from a version earlier than 2.00 must be done via the UPLOADER MODE (reboot unit while holding the [DOWN] and the [SET UP] keys).

We are pleased to announce the release of **firmware version 2.18** for the DXD-16.

Updating to 2.18 is recommended for all DXD-16.

New functions:

• GPIO Presets Recall: this function enables presets to be recalled using GPIO's.

<u>Bug fix</u>

• IGMP: Firmware version 2.18 fixes some issues that were observed with IGMP.

(See next pages for details on previous releases)

Please refer to the new DXD-16 manual for complete instructions.

For more information, contact:**plus24**
8974 Kramerwood Place - Los Angeles CA 90034 - USA
Tel: +1 323/845-1171
Web: www.plus24.net - Email: info@plus24.net



May 2022

DXD-16 - FirmwareVersion 2.17

IMPORTANT NOTE

Updating from a version earlier than 2.00 must be done via the UPLOADER MODE (reboot unit while holding the [DOWN] and the [SET UP] keys).

We are pleased to announce the release of **firmware version 2.17** bringing new features to the DXD-16.

Firmware 2.17 also includes efficiency improvements to some internal functions and for that reason should be considered as an **ESSENTIAL UPDATE** for all users.

New functions:

- **NTP Server Mode**: this function enables the DXD to send its System Time (Time-of-Day) to NTP clients. This mode can be enabled on each of the DXD-16 ports.
- **NTP Client Mode**: this function enables the DXD to receive Time-of-Day data from an external NTP server and supports manual transfer to its System Time. The user can select any of the 4 ports as the NTP client.

Menus changes:

- Menu 6: NTP: This menu includes all the NTP sub-menus:
 - Menu 6.1: Server Mode
 - Menu 6.2: Pseudo Client Mode
 - Menu 6.3: Ext Server Name A
 - Menu 6.4: Ext Server Name B
 - Menu 6.5: Poll Timing

Display pages changes:

- TIME & DATE Main Rotation page: the time from the external NTP server can be displayed
- NTP PORT STATUS Status page: a new status page is available for each of the DXD-16 ports

Please refer to the new DXD-16 manual for complete instructions.

(See next pages for details on previous releases)

For more information, contact:	plus24
	8974 Kramerwood Place - Los Angeles CA 90034 - USA
	Tel: +1 323/845-1171
	Web: www.plus24.net - Email: info@plus24.net



Dec 2021

DXD-16 - FirmwareVersion 2.16

IMPORTANT NOTE Updating from a version earlier than 2.00 must be done via the UPLOADER MODE (reboot unit while holding the [DOWN] and the [SET UP] keys).

Firmware version 2.16 does not bring any new feature but includes a minor bug fix.

Updating to 2.16 is recommended for all DXD-16.

With video sync set as the reference, if the source is unstable, in rare occasions the front panel could become unresponsive. Version 2.16 corrects that.

(See next pages for details on previous releases)

Please refer to the new DXD-16 manual for complete instructions.

For more information, contact:

plus24 8974 Kramerwood Place - Los Angeles CA 90034 - USA Tel: +1 323/845-1171 Web: www.plus24.net - Email: info@plus24.net



Oct 2021

DXD-16 - FirmwareVersion 2.15

IMPORTANT NOTE Updating from a version earlier than 2.00 must be done via the UPLOADER MODE (reboot unit while holding the [DOWN] and the [SET UP] keys).

We are pleased to announce the release of **firmware version 2.15** bringing the following to the DXD-16.

New functions:

- Support for **AVB 2011 & 2020** (requires AVB option, purchased separately)
- Support for PTP v2.1
- Support for Layer 2 PTP (v2.0 & 2.1)
- New system LOCATION (Menu 11.7 and UNIT INFO status)
- New Status pages (see below)
- DHCP Acquisition Process can be restarted from the front panel without rebooting the unit
- A minor **Time Jam** problem was fixed
- When connecting a **GPS antenna** through a splitter box blocking DC, the GPS receiver no longer interprets that as a disconnected antenna and therefore proceeds normally.

Menus changes:

- **Port Controls Menus** (5.3.1, 5.4.1, 5.5.1, 5.6.1): PTP Version and Profile have now been placed in 2 separate fields. Choices for PTP Versions are (* requires a Feature Key):
 - PTP Version 1*
 - PTP 2.0
 - PTP 2.1
 - PTP (Layer 2) 2.0
 - PTP (Layer 2) 2.1
 - AVB 2011*
 - AVB 2020*
- Menu 11.7 (Utility): Location

New Status Pages:

- Grandmaster ID: includes Primary Clocks, Grandmaster credentials and Path Trace information
- **PTP Port Status (4 pages)**: info on each port + message counters (Announce, Sync, Delay Request & Response, PDelay Request & Response) + Mean Path Delay
- WC Out Termination: displays a measurement in ohms for each BNC output set to Word Clock.

(See next pages for details on previous releases)

Please refer to the new DXD-16 manual for complete descriptions and instructions.

For more information, contact:	plus24
	8974 Kramerwood Place - Los Angeles CA 90034 - USA
	Tel: +1 323/845-1171
	Web: www.plus24.net - Email: info@plus24.net



April 2021

DXD-16 - FirmwareVersion 2.14

IMPORTANT NOTE Updating from a version earlier than 2.00 must be done via the UPLOADER MODE (reboot unit while holding the [DOWN] and the [SET UP] keys).

We are pleased to announce the release of **firmware version 2.14** bringing the following to the DXD-16.

New functions included:

- Support for **PTPv1** (option purchased separately)
 - PTP v1 can be selected for each port individually as a PTP Profile
 - Feature Key was added to enable PTP v1
- New system **NAME** (Menu and UNIT INFO status)
- Use higher priority **DSCP values** (original PTP: 46 and 0; new: 56 and 46)
- New LOCK statuses: PTP SYNC 0,1,2,3 (Main Rotation bottom line)
- Add Network Filtering to eliminate receipt of unwanted messages and reduce CPU loading
- **Buffer** and **queue** sizes in DRAM, used by software for network message reception, have been increased substantially.

Menus changes:

- Menus 5.3.1, 5.4.1, 5.5.1, 5.6.1 (Port Controls): PTP v1 (Profile & Version)
- Menu 11.5 (Utility): Feature Keys (PTP v1)
- Menu 11.6 (Utility): Name
- Menu 4.5.1: Advanced Networking: Internal VLAN ID's
- Menu 4.5.2: Advanced Networking: DSCP Transmit Values

(See next pages for details on previous releases)

Please refer to the new DXD-16 manual for complete descriptions and instructions.

For more information, contact:	plus24
	8974 Kramerwood Place - Los Angeles CA 90034 - USA
	Tel: +1 323/845-1171
	Web: www.plus24.net - Email: info@plus24.net



January 2021

DXD-16 - FirmwareVersion 2.10

IMPORTANT NOTE

Updating from a version earlier than 2.00 must be done via the UPLOADER MODE (reboot unit while holding the [DOWN] and the [SET UP] keys).

We are pleased to announce the release of **firmware version 2.10** bringing the following to the DXD-16.

New functions included:

- **Support for the DXD/LTC** optional time code generator firmware. It can generate 2 separate streams of time code simultaneously at different formats. Each stream can be set as a Time-Of-Day time code generator or as a traditional Run/Stop/Cue generator locked to the selected reference.
- BNC Outputs **delay/advance adjustment**. Available for WC, AES and Video Sync.
- **TIME JAM** mode, allows the DXD-16 to jam time information from an external source such as PTP or GPS (optional) when using a reference without time such as video sync, AES or word clock (see ch. 8.2 in manual).

Menus changes:

- Menu 1.2: Sync Parameters (Time Jam)
- Menus 3.1-3.6: BNC Outputs (supports Time Code and includes delay/advance adjustments)
- Menu 5.1: PTP Port Modes (Time Jam)
- Menu 5.X.4: PTP Port Time Jam domain (Time Jam)
- Menu 7.3: Time & Date Display (supports TC Gen)
- Menu 8.1: SMPTE 2059 Set Up (Time Code)
- Menu 8.2: TC Generator 1 (Time Code)
- Menu 8.3: TC Generator 2 (Time Code)
- Menus 9.1-9.2: GPIO (Time Code)

Display pages changes:

- PTP PORTS Main rotation: includes Time Jam modes and states
- TIME & DATE Main rotation: can display both TC Generators outputs and commands
- OUTPUTS Main Rotation: indicates a delay/advance adjustment was applied
- TIMES *Status mode*: includes TOD/GM Offset. Also includes TCG 1 & 2, Previous & Next Daily Jam

Please refer to the new DXD-16 and the DXD/LTC manuals for complete descriptions and instructions.

For more information, contact:	plus24
	8974 Kramerwood Place - Los Angeles CA 90034 - USA
	Tel: +1 323/845-1171
	Web: www.plus24.net - Email: info@plus24.net



December 2020

DXD-16 - FirmwareVersion 2.00

IMPORTANT NOTE

Updating to firmware 2.00 must be done via the UPLOADER MODE (reboot unit while holding the [DOWN] and the [SET UP] keys).

We are pleased to announce the release of firmware version 2.00, a major firmware update bringing many new functions to the DXD-16.

New functions included:

- PTP v2
- **Color Framing** alignment and synchronization
- **GPS** support (optional GPS receiver)
- GPIO
- Mute on Unlock (BNC Outputs)
- Output deviations monitoring (see ch. 13 in the manual)
- Feature key for future time code implementation (menu 11.5)

New set-up menus included:

- Menu 1.2: Sync Parameters
- Menu 3. 9: Mute on Unlock
- Menus 5: PTP
- Menus 6: GPS (optional GPS receiver required)
- Menus 7: Time
- Menus 8: Time Code (optional LTC option required for menus 8.2 & 8.3)
- Menus 9: GPIO
- Menu 11.5: Feature Key

New display pages included:

- PTP Ports Main rotation
- Time & Date Main rotation
- Installed Options Status mode (Unit Information page)
- Network Adresses Status mode
- Times Status mode
- GPS Receiver (option required) Status mode

Please refer to the new DXD-16 manual for complete descriptions and instructions.



December 2020

DXD-16 - FirmwareVersion 2.00

Note that the following are NOT INCLUDED in this release:

- Web Page GUI Remote Control
- PTP AVB
- NTP Source for TOD jam
- PTP Unicast & Peer to Peer delay mechanism

For more information, contact:plus248974 Kramerwood Place - Los Angeles CA 90034 - USATel: +1 323/845-1171Web: www.plus24.net - Email: info@plus24.net