# BRAINSTORM ELECTRONICS INC.

Sync Solutions for Recording, Post, Broadcast and Live applications

## Release Notes For DXD-16

April 2021

DXD-16 - FirmwareVersion 2.14

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**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*).

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We are please 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
- Add 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**
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## Release Notes For DXD-16
January 2021

DXD-16 - FirmwareVersion 2.10

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**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*).

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We are please 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.**

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# BRAINSTORM ELECTRONICS INC.

**Sync Solutions for Recording, Post, Broadcast and Live applications**

## Release Notes For DXD-16
December 2020

DXD-16 - FirmwareVersion 2.00

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### 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*).

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We are please 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.**

## Release Notes For DXD-16
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

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