

## 動画ディスプレイ DP-V2421 ファームウェア Version 1.3.1

### ファームウェアの変更内容

このファームウェア（Version 1.3.1）は、以下の修正を盛り込んでいます。

1. ファームウェア Version 1.3 において、ファンクションキー操作でオーディオレベルメーターを表示しようとする、ディスプレイ本体が再起動する場合がある現象を修正しました。

※オーディオレベルメーター表示機能は、デフォルトで「F3」に設定されております。

尚、Version 1.3.1 は Version 1.3 と同じ機能および性能向上を含んでいます。Version 1.3 で追加された機能と性能向上の内容は以下の通りです。

1. 12G/6G-SDI の 4K 映像信号と 3G/HD-SDI の 2K 映像信号を 1 台のディスプレイで 2 画面/4 画面表示※<sup>1</sup>することが可能になりました。
2. 2 画面/4 画面表示時、複数端子のオーディオレベルメーターを同時表示※<sup>2</sup>することが可能になりました。
3. 画面内に、「波形モニター」と「ベクトルスコープ」を同時に表示することが可能になりました。
4. 2 画面/4 画面表示時、映像表示位置を「上」「中」「下（センター）」で調整することが可能になりました。
5. 「比較表示」時、HDR 映像と SDR 映像の波形モニターの同時表示や LUT 変換後の波形モニターの表示が可能になりました。
6. HDR/SDR 比較表示時、SDR 映像のコントラスト調整や色温度やゲイン調整の画質設定が可能になりました。
7. QuadView 表示時、「CDL/UserLUT」による異なるユーザー LUT を 4 種類適応させた比較表示が可能になりました。
8. Payload ID の Transfer Characteristics（PQ/HLG/SDR）と Bit Depth と ICTcp によるディスプレイの画質設定の自動切り換えが可能になりました。
9. LAN 接続した複数ディスプレイの画質設定やチャンネル設定を連動させて切り替えることが可能になりました。
10. 異なる複数機種間及び LAN 経由での設定のエクスポートとインポートすることが可能になりました。
11. 無信号/非対応信号などの入力信号エラーや 2-Sample Interleave 信号の接続順番間違いの警告表示が可能になりました。
12. SDI 信号の CRC エラーの警告表示が可能になりました。
13. 12G-SDI ケーブルを 4 本使用して 8K 映像（2-Sample Interleave 信号）を入力している時、各入力端子の映像を一定間隔で順次切換え表示や、非表示端子の映像信号が不正な場合に警告表示することが可能になりました。
14. 2-Sample Interleave/3G-SDI Dual Link 信号を入力している時に、Payload ID に従って端子の順番並び替えのオン/オフ設定を追加しました。
15. 「フレーム輝度モニター」に、最大輝度内の輝度分布を濃淡で表現した「輝度グラフ」と、HDR 領域と SDR 領域の輝度比率を表現した「HDR/SDR 比率グラフ」の表示を追加しました。
16. 「フレーム輝度モニター」で取得した最大輝度値/平均輝度値とタイムコードを、USB メモリへ出力することが可能になりました。

17. 入力映像の輝度信号のヒストグラムを表示することが可能になりました。また、HDR/SDR 比率、ピーク輝度/平均輝度表示、HDR 信号領域をフォスカラーと同じ色で着色表示、HDR レンジ以上の領域を警告色で着色表示することも可能になりました。
18. 「フォスカラー」に、HDR 領域と SDR 領域の輝度境界の設定や SDR 領域を異なる 2 種類の色で色分けすることができるなど、表示の改善や操作性を向上しました。
19. HLG 信号のシステムガンマを、コントラスト値に応じた自動設定する機能を追加しました。
20. 「波形モニター」に、表示サイズ「大」「中」「小」を追加しました。
21. 「ベクトルスコープ」に、表示サイズ「大」「中」「小」とターゲット「75+100%」を追加しました。また、BT.2020 の YCbCr 信号入力時、ターゲット枠を BT.2020 の位置に変更する機能を追加しました。
22. OSD 非表示中にジョグダイヤルを押す/動かす（上下左右または回転）と、機能一覧を表示する機能を追加しました。また機能一覧から機能を選び、ジョグダイヤルを押す/動かす（右）と詳細な設定画面の表示、または機能を実行することが可能になりました。
23. OSD の明るさ調整機能を追加しました。
24. 「オーディオレベルメーター」に、明るさ調整機能を追加しました。
25. 「バナー」に、ピクチャーモードを表示するなどの表示設定を追加しました。
26. 「セパレーター」に、「ハーフ」の設定を追加しました。
27. ズーム表示時に、全体映像と拡大映像の 2 画面表示機能を追加しました。
28. 「スクリーンキャプチャー」に、HDR/SDR 比較用ファイル作成機能を追加しました。
29. アクセスポイント方式による Wi-Fi 接続機能を追加しました。
30. Wi-Fi または LAN 接続によるリモート制御時、Web から LUT インポートや設定のインポート/エクスポートなどを実行する機能を追加しました。
31. 「アナモフィック」に、「x1.8」の設定を追加しました。
32. 「インモニターディスプレイ」に、TSL ver5.0 の Unicode（日本語/中国語など）について一部表示することが可能になりました。
33. ファンクションボタンの初期値、User4 モード「DCI PQ D65」など、設定初期値を変更しました。
34. その他、動作性能改善を行いました。

※1：入力映像の解像度やフレームレートや伝送方式などによる表示制約があります。

※2：2 画面表示時は、1 端子毎に 2 チャンネルまたは 4 チャンネル表示、4 画面表示時は、1 端子毎に 2 チャンネル表示が可能です。

今回ご案内のファームウェア Version 1.3.1 は、Version 1.3 以前のファームウェアを搭載したディスプレイがアップデート対象となります。ディスプレイのファームウェアがすでに Version 1.3.1 の場合には、ファームウェアのアップデートを行う必要はありません。

#### ファームウェア変更のための準備

アップデートを行う前に、予め設定項目をエクスポートしておくことをお勧めします。エクスポートした設定内容はアップデート終了後にディスプレイにインポートして設定します。

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ファームウェアの変更を行う場合には以下の機材が必要です。

- 1.ディスプレイ本体
- 2.パソコン
- 3.USB メモリー（FAT16 または FAT32）
- 4.ファームウェア（ダウンロードしたファイル）

## 本機で使用しているソフトウェアについて

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本機には以下のフリーソフトウェアモジュールが組み込まれています。

- linux kernel
- SquashFS
- avahi-autoipd
- Newlib(libc)
- openssl
- dhcpd
- busybox
- FUSE
- libxml
- Newlib(libm)
- libnl
- hostapd
- glibc
- libfuse
- zlib
- wireless\_tools
- RealTek\_WiFi\_linux driver
- JFFS2
- libupnp
- libpng
- wpa\_supplicant

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■linux kernel, busybox, SquashFS, JFFS2, FUSE

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```
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■glibc, libfuse, avahi-autoipd

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■Newlib(libc)

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