

Firmware Version 1.3.1 für Videodisplay DP-V2421Details zu den Änderungen an der Firmware

In dieser Firmware (Version 1.3.1) wurde der folgende Fehler behoben:

1. Es wurde ein Problem in der Firmwareversion 1.3 behoben, durch den das Hauptgerät des Referenz-Displays beim Druck auf die Funktionstaste F3 neu gestartet wurde.

Bitte überprüfen Sie die Firmware-Version auf Ihrem Display. Wenn Version 1.3 oder eine frühere Version ausgeführt wird, sollte die Firmware auf Version 1.3.1 aktualisiert werden. Wenn die Firmware des Displays in der Version 1.3.1 vorliegt, brauchen Sie nichts zu unternehmen.

Die Firmwareversion 1.3.1 umfasst zudem alle Leistungsverbesserungen und Funktionen der Firmwareversion 1.3. Die folgenden Leistungsverbesserungen und Funktionen sind in der Firmwareversion 1.3 enthalten.

1. Die 2-Bild- oder 4-Bild-Anzeige*¹ von 12G/6G-SDI 4K- und 3G/HD-SDI 2K-Videosignalen ist jetzt mit einem einzigen Display möglich.
2. Die Schallpegelmessung an mehreren Anschlüssen kann jetzt im 2-Bild- oder 4-Bild-Anzeigemodus gleichzeitig angezeigt werden*².
3. „Wave Form Monitor“ und „Vector Scope“ können jetzt gleichzeitig auf dem Bildschirm angezeigt werden.
4. Die Video-Anzeigeposition kann jetzt mit „Top“, „Middle“ und „Center“ im 2-Bild- oder 4-Bild-Anzeigemodus eingestellt werden.
5. Waveformmonitore für HDR-Video und SDR-Video können jetzt gleichzeitig angezeigt werden, und die Waveformmonitore nach der LUT-Konvertierung können jetzt im Modus „Compare View“ angezeigt werden.
6. Im HDR/SDR-Vergleichsanzeigemodus wurden Einstellungen für die SDR-Videobildqualität (Kontrasteinstellung, Farbtemperatur, Verstärkungseinstellung) hinzugefügt.
7. Im QuadView-Anzeigemodus ist jetzt eine Vergleichsanzeige möglich, über die vier verschiedene Benutzer-LUTs mit „CDL/UserLUT“ angepasst werden können.
8. Die Einstellungen für die Bildqualität der Anzeige können jetzt automatisch zwischen Übertragungscharakteristiken (PQ/HLG/SDR), Bittiefe und ICtCp der Payload-ID umgeschaltet werden.
9. Die Einstellungen für Bildqualität und Kanal für mehrere über LAN verbundene Displays können jetzt gemeinsam umgeschaltet werden.
10. Die Einstellungen können jetzt zwischen verschiedenen Modellen und über LAN exportiert und importiert werden.
11. Bei Eingangssignalfehlern ist jetzt eine Warnanzeige möglich, z. B. wenn kein Signal vorhanden ist, das Signal nicht unterstützt wird oder wenn 2-Sample-Interleave-Signale in falscher Reihenfolge vorliegen.
12. Für CRC-Fehler bei SDI-Signalen ist jetzt eine Warnanzeige möglich.
13. Bei der Eingabe von 8K-Video (2-Sample-Interleave-Signal) mit vier 12G-SDI-Kabeln ist es jetzt möglich, das Videosignal von allen Eingangsanschlüssen in regelmäßigen Abständen sequenziell umzuschalten und anzuzeigen sowie eine Warnung anzuzeigen, wenn das Videosignal von einem nicht angezeigten Anschluss falsch ist.
14. Es wurde eine Einstellung hinzugefügt, die die Anschlussreihenfolge entsprechend der Payload-ID

- bei der Eingabe eines 2-Sample-Interleave/3G-SDI Dual Link-Signals ein- bzw. ausschaltet.
15. Die Anzeige „Luminance Graph“, die Abstufungen verwendet, um die Helligkeitsverteilung innerhalb der maximalen Helligkeit darzustellen, sowie die Anzeige „HDR/SDR Ratio Graph“, die das Helligkeitsverhältnis von HDR-Bereichen und SDR-Bereichen darstellt, wurden dem „Frame Luminance Monitor“ hinzugefügt.
 16. Die vom „Frame Luminance Monitor“ bezogenen Spitzen- und Durchschnittshelligkeitswerte und Zeitcodes können jetzt zu einem USB-Speicher ausgegeben werden.
 17. Das Helligkeitssignal-Histogramm des Eingangsvideosignals kann jetzt angezeigt werden. Außerdem können das HDR/SDR-Verhältnis und die Spitzen- und Durchschnittshelligkeit angezeigt werden. Der HDR-Signalebereich kann in derselben Farbe wie Falschfarben dargestellt werden, und Bereiche, die dem HDR-Bereich oder höher entsprechen, können in einer Warnfarbe hervorgehoben werden.
 18. Die Anzeige und Funktionalität von „False Color“ wurde verbessert, z. B. durch Hinzufügen von Helligkeitsgrenzwert-Einstellungen für den HDR- und SDR-Bereich und der Möglichkeit einer Farbcodierung von SDR-Bereichen mit zwei verschiedenen Farben.
 19. Es wurde eine Funktion hinzugefügt, die den Gammawert des HLG-Signalsystems automatisch nach dem Kontrastwert einstellt.
 20. Die Einstellungen für die Anzeigegröße „Large“, „Middle“ und „Small“ wurden dem „Wave Form Monitor“ hinzugefügt.
 21. Die Einstellungen für die Anzeigegröße „Large“, „Middle“ und „Small“ sowie die Zieleinstellung „75+100%“ wurden zu „Vector Scope“ hinzugefügt. Zusätzlich wurde eine Funktion hinzugefügt, die den Ziel-Frame während der BT.2020-YCbCr-Signaleingabe auf die BT.2020-Position ändert.
 22. Es wurde eine Funktion hinzugefügt, die eine Funktionsliste anzeigt, wenn der Jog-Dial gedrückt oder bewegt wird (nach oben/unten/links/rechts oder gedreht), während die Bildschirmanzeige (OSD) ausgeblendet ist. Darüber hinaus kann eine Funktion aus der Funktionsliste ausgewählt werden, und der Bildschirm mit den detaillierten Einstellungen für diese Funktion kann angezeigt werden, oder die jeweilige Funktion kann durch Drücken oder Bewegen des Jog-Dials (nach rechts) ausgeführt werden.
 23. Eine Funktion zur Anpassung der OSD-Helligkeit wurde hinzugefügt.
 24. Eine Funktion zum Anpassen der Helligkeit wurde zu „Audio Level Meter“ hinzugefügt.
 25. Es wurden Anzeigeeinstellungen, wie z. B. die Bildmodusanzeige, zu „Banner“ hinzugefügt.
 26. Die Funktion „Half“ wurde zu „Separator“ hinzugefügt.
 27. Es wurde eine Funktion für die 2-Bild-Anzeige des gesamten Bildes und des vergrößerten Bildes während der Zoom-Anzeige hinzugefügt.
 28. Eine Funktion zum Erstellen einer HDR/SDR-Vergleichsdatei wurde zu „Screen Capture“ hinzugefügt.
 29. Eine Funktion wurde hinzugefügt, die eine WLAN-Verbindung über die Access-Point-Methode herstellt.
 30. Es wurden Funktionen hinzugefügt, die Vorgänge wie den Import von LUT und das Importieren/Exportieren von Einstellungen über das Internet während der Fernsteuerung über eine WLAN- oder LAN-Verbindung ausführen.
 31. Die Einstellung „x1.8“ wurde zu „Anamorphic“ hinzugefügt.
 32. Einige Unicode-Schriftarten von TSL ver5.0 (Japanisch/Chinesisch usw.) können jetzt unter „In Monitor Display“ angezeigt werden.
 33. Einige Standardeinstellungen wurden geändert, z. B. die Standardeinstellungen der Funktionstasten und der User4-Modus „DCI PQ D65“ usw.

34. Weitere Betriebsleistung wurde verbessert.

*1: Abhängig von Eingangsvideoauflösung, Bildrate und Übertragungsmethode usw. gelten einige Einschränkungen für die Anzeige.

*2: Im 2-Bild-Anzeigemodus können für jeden Anschluss 2 oder 4 Kanäle angezeigt werden. Im 4-Bild-Anzeigemodus können für jeden Anschluss 2 Kanäle angezeigt werden.

Vorbereitungen für die Aktualisierung der Firmware

Es wird empfohlen, die aktuellen Einstellungen zu exportieren, bevor Sie versuchen, die Firmware zu aktualisieren. Sobald die Firmware aktualisiert ist, können die Einstellungen wieder in das Display importiert werden.

Der heruntergeladene Ordner enthält die neue Firmware. (Dateiname: „update_dpv2421.rom“, Dateigröße: 25,191,963 Bytes) Er enthält auch das Dokument mit den Anweisungen zur Firmware-Aktualisierung (mehrsprachige PDF-Datei in folgenden Sprachen: Japanisch, Englisch, Französisch, Deutsch und Chinesisch (vereinfachte Zeichen)). Bevor Sie mit der Aktualisierung der Firmware fortfahren, lesen Sie bitte die Anweisungen zur Firmware-Aktualisierung.

Für die Ausführung der Firmware-Aktualisierung sind folgende Komponenten erforderlich:

1. Display-Einheit
2. Personalcomputer
3. USB-Speicher (FAT16 oder FAT32)
4. Firmware (die heruntergeladene Datei)

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■linux kernel, busybox, SquashFS, JFFS2, FUSE

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Version 2, June 1991

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■glibc, libfuse, avahi-autoipd

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■Newlib(libc)

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