

**Firmware Version 1.3.1 für Videodisplay DP-V2410**Details zu den Änderungen an der Firmware

Diese Firmware (Version 1.3.1) enthält die folgenden zusätzlichen Funktionen und Leistungsverbesserungen.

1. Es wurde eine Funktion hinzugefügt, die automatisch die Bildqualitätseinstellungen entsprechend der Videoauflösung (4K/2K) und entsprechend den Metadaten (Kolorimetrie-Bit der Video-Payload-ID, Kinokamera-Typ (CINEMA EOS SYSTEM/ARRI/Panasonic) und HDMI) verändert. Dies ermöglicht einen praktischeren und effizienteren Betrieb in Umgebungen, die sowohl HDR als auch SDR nutzen.
2. Es wurde eine Funktion hinzugefügt, die die Helligkeitswerte\*<sup>1</sup> oder RGB-Werte des Eingangsvideos für die angegebene Pixelposition anzeigt. Dadurch kann die Motivhelligkeit detaillierter überprüft werden.
3. Es wurde eine Funktion hinzugefügt, die die Spitzen- und Durchschnitts-Helligkeitswerte\*<sup>1</sup> bzw. die Spitzen- und Durchschnitts-Gradiationswerte sowie den Übergang in diesen Werten für das gesamte Eingangsvideobild (Frame) anzeigt. Mit dieser Funktion können Helligkeitsänderungen während der Videoproduktion visuell überprüft werden.
4. Eine Vergleichsanzeigefunktion wurde hinzugefügt, die eine Vergleichsanzeige von HDR/SDR und einen Vergleich von CDL/User LUT ON/OFF ermöglicht. Auf diese Weise kann die Bildqualität mit nur einem Tastendruck auf der linken und rechten Seite verglichen werden.
5. Es wurde eine Funktion hinzugefügt, mit der die Bildbereiche farbig markiert werden, die dem angegebenen Wertebereich entsprechen oder darüber liegen. Auf diese Weise kann der Helligkeitspegel während der HDR-Aufnahme visuell überprüft werden.
6. Unter „False Color“ wurde eine Funktion hinzugefügt, die es ermöglicht, die Randpositionen des Helligkeitsfarbbereichs beliebig anzupassen.
7. Unter „2020 Outside of Gamut View“ wurde eine Funktion hinzugefügt, die Bildbereiche farbig markiert, welche außerhalb des nativen Farbraums des Panels liegen.
8. Unter „Test Pattern“ wurden PLUGE- und Farbbalken-Testbilder für HDR-Signale hinzugefügt.
9. Eine Funktion für die Fernbedienung der Anzeige über einen Web-Browser\*<sup>2</sup> wurde hinzugefügt. Sie ermöglicht es, das angezeigte Video und die Einstellungen über einen PC, ein Tablet oder ein anderes Gerät zu überprüfen und zu verändern.
10. „2020 PQ to 2020 SDR“, „2020 PQ to 709 SDR“ und „2020 HLG to 709 HLG“ wurden unter „CDL/User LUT“ hinzugefügt. Dies ermöglicht die Anzeige von PQ-Signalen, die zu Signalen mit SDR-Eigenschaften umgewandelt wurden, und die Anzeige mit dem PQ/HLG-Signal-Farbraum, der in BT.709 umgewandelt wurde.
11. Die ARRI-Kinokamera-LUTs „ARRI (Rec2100-PQ-1K-100)“ und „ARRI (Rec2100-HLG-1K-200)“ sowie die Panasonic-Kinokamera-LUT „VARICAM (V-Log to V-709)“ wurden unter „User LUT“ hinzugefügt.
12. Die Skalierungsanzeigen „Preset Log 1“, „Preset Log 2“, „ARRI (Rec2100-PQ-1K-100)“ und „ARRI (Rec2100-HLG-1K-200)“ wurden unter „Wave Form Monitor“ hinzugefügt.
13. Unter „Wave Form Monitor“ wurde eine Funktion hinzugefügt, mit der Bildbereiche farblich markiert werden, die außerhalb der mit „Color Range“ und „HDR Range“ festgelegten Wertebereiche liegen. Dies ermöglicht eine einfache Kontrolle der Bildbereiche, die außerhalb dieser Wertebereiche liegen.

14. Ein Wellenformmonitor kann jetzt während der MultiView (Dual)-Anzeige sowohl im linken als auch im rechten Bild angezeigt werden.
15. Das System-Gamma kann jetzt auf Werte zwischen 1,000 und 1,500 eingestellt werden, wenn „Gamma/EOTF“ auf „Hybrid Log-Gamma“ eingestellt ist.
16. Der automatische Einstellvorgang unter „Color Range“ wurde auf „Full“ geändert, wenn „Gamma /EOTF“ auf „Preset Log 1“ oder „Preset Log 2“ eingestellt ist.
17. „D65-Custom“ wurde zu „Color Temperature“ hinzugefügt, um eine Feineinstellung der Farbtemperatur für D65 zu ermöglichen.
18. Die Bedienung bei Einstellung von „Color Range“ auf „Limited“ wurde erweitert, sodass Bereiche oberhalb von Weiß und unterhalb von Schwarz angezeigt werden können.
19. Die anamorphotische Darstellung kann jetzt so gezoomt werden, wie sie ist.
20. Die Optionen „Gray“ zur Einstellung der Zeilenanzeigefarbe und „Half“ zur Helligkeitseinstellung wurden in den Einstellungen für „Aspect Marker/Safety Zone Marker 1/Safety Zone Marker 2/Area Marker/Center Marker/Grid Marker“ hinzugefügt. Dies ermöglicht während der HDR-Anzeige eine abgedunkelte Darstellung.
21. Unter „Center Marker/Audio Level Meter“ wurde eine Einstellung für die Anzeigegröße hinzugefügt.
22. Unter „Time Code“ wurden die Einstellungen für horizontale Anzeigeposition, Helligkeit und VITC/LTC-Anzeige ON/OFF hinzugefügt.
23. Eine Einstellung für das Speicherformat wurde hinzugefügt, sodass nun zusätzlich zum bisherigen Bitmap-Format auch die Erfassung im JPEG-Format möglich ist.
24. Weitere Verbesserungen der Benutzeroberfläche und der Bedienung wurden vorgenommen.

\*1: Nur wenn „Gamma /EOTF“ auf „SMPTE ST 2084 (PQ)/Hybrid Log-Gamma“ eingestellt ist. (Wird nicht unterstützt, wenn „Gamma /EOTF“ auf „Hybrid Log-Gamma RGB“ eingestellt ist.)

\*2: Bei Verwendung von WLAN ist ein WLAN-Adapter erforderlich.

Bitte überprüfen Sie die Firmware-Version auf Ihrem Display. Wenn Version 1.2 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.

#### 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\_dpv2410.rom“, Dateigröße: 24,371,278 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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■glibc, libfuse, avahi-autoipd

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■Newlib(libc)

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