

**Firmware Version 1.4.2 für Videodisplay DP-V1710**Details zu den Änderungen an der Firmware

In dieser Firmware (Version 1.4.2) wurde der folgende Fehler behoben:

1. Behebt eine Fehlfunktion, durch welche die Zähleranzeigefunktion auf dem Bildschirm mittels des TSL-UMD-Protokolls in einigen Fällen nicht verwendet werden konnte.
2. Eine Fehlfunktion wurde behoben, bei der Teile des Menübildschirms in einigen Fällen falsch angezeigt wurden, wenn eine Gleichstromversorgung bei einer Anzeige mit Firmware-Version 1.4 oder 1.4.1 verwendet wurde.

Bitte überprüfen Sie die Firmware-Version auf Ihrem Display. Wenn Version 1.4.1 oder eine frühere Version ausgeführt wird, sollte die Firmware auf Version 1.4.2 aktualisiert werden. Wenn die Firmware des Displays in der Version 1.4.2 vorliegt, brauchen Sie nichts zu unternehmen.

Die Firmwareversion 1.4.2 umfasst zudem alle Leistungsverbesserungen und Funktionen der Firmwareversion 1.4. Die folgenden Leistungsverbesserungen und Funktionen sind in der Firmwareversion 1.4 enthalten.

1. Die Weißluminanz und die Spitzenluminanz für Vollbild im Verstärkungsmodus wurden von  $600 \text{ cd/m}^2$  auf  $1000 \text{ cd/m}^2$  erhöht.
2. Die Weißluminanz und die Spitzenluminanz für Vollbild bei lokaler Abdunklung wurden von  $300 \text{ cd/m}^2$  auf  $600 \text{ cd/m}^2$  erhöht.
3. Die Hintergrundluminanz wurde im Verstärkungsmodus und bei lokaler Abdunklung auf  $0,001 \text{ cd/m}^2$  verbessert.
4. LUT-Dateien im Format *.cube* können jetzt direkt in die Displayeinheit importiert werden.
5. 1D-LUTs können jetzt in die User-LUT importiert werden. Der Bereich des Videosignals kann jetzt auch vor oder nach der Verarbeitung mit der User-LUT (1D-LUT / 3D-LUT) konvertiert werden.
6. Beim Ansehen oder Vergleichen von Wellenformen nach der LUT-Konvertierung können jetzt HDR-Videos und SDR-Videos gleichzeitig auf dem Wellenformmonitor angezeigt werden.
7. Beim Ausgeben von Canon Log Video von einer Cinema EOS Kamera<sup>\*4</sup> über SDI oder HDMI kann die Displayeinheit nun automatisch den Farbbereich (voll oder begrenzt) feststellen und anzeigen, welcher dem Farbbereich des ausgegebenen Videos entspricht (voller oder begrenzter Bereich).
8. "CDL/User LUT" wurden zwei LUTs hinzugefügt, die mit RED Digital Cinema Cameras aufgenommenes Video in HDR (PQ) und SDR konvertieren.
9. "Pixel Value Check" wurde eine Funktion hinzugefügt, die die Chromatizitätswerte xy eines spezifischen Pixels sowie seine Koordinatenposition auf dem Chromatizitätsdiagramm<sup>\*5</sup> anzeigt.
10. "Range Check" wurde "Peak Range" hinzugefügt, das Bereiche mit hoher Luminanz hervorhebt, welche mit der normalen Einstellung "Over Range" eingestellt wurden.
11. Mit "Signal Monitoring" festgestellte Fehler können jetzt als Log auf einen USB-Speicherstick oder andere externe Speichergeräte exportiert werden. Das Fehlerlog bleibt jetzt auch nach einem Ausschalt-Einschalt-Zyklus erhalten.
12. Der Einstellungsbereich für die Größe (Breite und Höhe) und die Anzeigeposition (horizontal und

vertikal) des Bereichs der "Safety Zone Marker" wurde geändert. Den Flächenformen wurde "Box (Mask)" hinzugefügt.

13. "Area Marker 2" wurde hinzugefügt. Jetzt können zwei Bereichsmarkierungen gesetzt werden.
14. Den Einstellungen des Intervalls für "Grid Marker" wurde 80% (UHD) – 95% (UHD) hinzugefügt.
15. Zum "Audio Level Meter" wurden Einstellungen zum Anpassen der Kanalreihenfolge und der Anzeigeposition hinzugefügt.
16. Zum Anpassen des Seitenverhältnisses von SD-SDI-Signal-Video kann jetzt 16:9 und 4:3 gewählt und angezeigt werden. Eine automatische Feststellung und Anzeige mit Payload ID ist jetzt ebenfalls möglich.
17. Wenn das Eingangssignal zwischen SD-SDI und HD-SDI wechselt, kann die Einheit dies jetzt automatisch feststellen und das Display umschalten.
18. "Marker 1/2/3", "Monochrome", "Blue Only", "Red Off", "Green Off" und "Blue Off" wurden den Funktionen hinzugefügt, die unter den einzelnen GPI-Pins unter "Remote(GPI)" gespeichert werden können.
19. Auf dem "Frame Luminance Monitor" wurden 10 % und 5 % zu den Optionen der Anzeigenskalierung für HDR/SDR-Verhältnisdiagramme hinzugefügt.
20. Verbesserte Bedienbarkeit des Webbrowsers. Unter anderem ist es jetzt möglich, die Position des Pixelwert-Checkers durch Klicken oder Berühren auf dem Ansichtsfenster während Fernbedienung über W-LAN oder LAN zu ändern, sowie Werte für den Einstellbalken auf dem Steuerfenster direkt einzugeben.
21. Eine Einstellung für die konstante Beleuchtung der Tastennamen auf der Einheit wurde hinzugefügt.
22. Das Verhalten bei der Benutzung des automatischen Systemgamma für Hybrid Log-Gamma (HLG) wurde geändert.
23. Eine Energiesparfunktion wurde hinzugefügt.
24. Weitere Verbesserungen für Bedienung und Anzeige wurden vorgenommen.

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\*3 Trifft nur zu, wenn das Vollbild schwarz angezeigt wird.

\*4 Cinema EOS Kameramodelle mit möglicher Wahl des Canon Log-Bereichs  
C500 Mark II/C300 Mark III (unterstützen sowohl SDI als auch HDMI)  
C700/C700 GS/C700 FF (nur Einstellungen von User-LUT und SDI)  
(Stand Ende Mai 2020)

\*5 Nur für den Farbraum BT.2020 und eine Gammakurve von 1,0, 2,2, 2,35, 2,4, 2,6, PQ oder HLG (ohne HLG RGB).

#### 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\_dpv1710.rom", Dateigröße: 23,230,199 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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