Dell Calibration Assistant

User's Guide



Model: Calibration Assistant Regulatory model: Calibration Assistant

Notes, cautions, and warnings

- NOTE: A NOTE indicates important information that helps you make better use of your computer.
- △ CAUTION: A CAUTION indicates potential damage to hardware or loss of data if instructions are not followed.
- ☆ WARNING: A WARNING indicates a potential for property damage, personal injury, or death.

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2020 - 09

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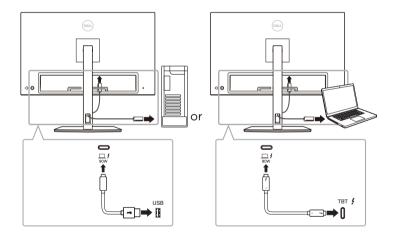
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Overview

Dell Calibration Assistant is an application designed for scheduling internal calibration and validation, review calibration and validation results, and generate calibration and validation reports into HTML format for web posting.

Before you begin

- 1 You must have a Dell UP3221Q or UP2720Q monitor connected to your computer.
- 2 Download the Dell Calibration Assistant software from the following sites: UP2720Q: <u>https://www.dell.com/UP2720Q</u>. UP3221Q: <u>https://www.dell.com/UP3221Q</u>.
- 3 Ensure that the Thunderbolt[™] 3 Active cable is connected from the Thunderbolt[™] 3 Upstream Port of the monitor to the computer or the Notebook.
- 4 If you are connected using HDMI or DP connection, ensure that the USB Type-C to A cable is connected from the Thunderbolt[™] 3 Upstream Port of the monitor to your computer.



NOTE: If you do not have the Thunderbolt[™] 3 Active cable or USB Type-C to A cable connected when you launch the Dell Calibration Assistant, the following appears:

No available or compatible monitors detect connect to.	ted to
OK	

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Using the Dell Calibration Assistant

1 Click on the Application icon to launch the Dell Calibration Assistant.



NOTE: For Ubuntu, Dell Calibration Assistant is only supported in 64-bit versions.

2 The application communicates with the monitor connected to the host and establishes a link to svnc with the monitor OSD.



NOTE: This process may take a few minutes.

NOTE: Close Dell Calibration Assistant before conducting internal calibration or validation. Relaunch the software after internal calibration or validation is complete.

- NOTE: Click on the search icon next to the monitor list to refresh the Dashboard and Report information. Alternatively, close and relaunch **Dell Calibration Assistant.**
- NOTE: Open and use only one of the following software programs at any given time: Dell Calibration Assistant. Dell Color Management Software, or Calman Ready.
- **NOTE:** When connecting for the first time, the report will not be downloaded if the monitor has not been calibrated or validated.
- MOTE: The screenshots captured in this document are for the purpose of illustration only. The options listed may vary based on the model of your display.

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Dashboard

The Dashboard page allows you to select the target Color Space to schedule task for calibration, validation, or calibration and validation.

To select Color Space for calibration and/or validation, do the following:

1 If multiple monitors are connected, select the target monitor from the monitor list.

		DASHBOAR	RD	Þ.	REPORT	8	SCI	HEDULER
Select Co	lor Space	e for Calibrat	ion and/or Validation			Ne	t Cal. Time	Scheduler Disabled
Cal.	Val.	Color Space	ce		Last Calibration Date	Last Validat	on Date	
	2	S1: DCI P3	D65 G2.4 L100		2020.06.05	2020.06.05		
		S2: BT.709	D65 BT.1886 L100					
		\$3: BT.202	0 D65 BT.1886 L100					
		S4: sRGB [D65 sRGB L120					
		S5: Adobe	RGB D65 G2.2 L160					
		S6: Adobe	RGB D50 G2.2 L160					
		H1: HDR 1	0 D65 ST.2084 L1000					
		H2: HDR D	65 HLG L1000					
		CAL1						
		CAL2						
D	evice Nar	ne:	UP3221Q					
s	ervice Ta	g:	QFM0631					
s	tatus:		Device connected					
s	oftware V	ersion:	1.0.6.4					
		'ersion:						

2 Select the Color Space you wish to schedule for internal calibration, validation, or calibration and validation.

	l	DASHBOAR	D	Þ.	REPORT		SC	HEDULER
Select Co	lor Space	e for Calibrati	ion and/or Validation				Next Cal. Time	Scheduler Disabled
Cal.	Val.	Color Space	e		Last Calibration Date	Last	/alidation Date	
		S1: DCI P3	D65 G2.4 L100		2020.06.05	2020.	06.05	
		S2: BT.709	D65 BT.1886 L100					
	2	S3: BT.2020	0 D65 BT.1886 L100					
2		S4: sRGB D	165 sRGB L120					
		S5: Adobe I	RGB D65 G2.2 L160					
		S6: Adobe	RGB D50 G2.2 L160					
		H1: HDR 10	0 D65 ST.2084 L1000					
		H2: HDR D	65 HLG L1000					
2	2	CAL1						
		CAL2						
D	evice Nar	ne:	UP3221Q					
S	ervice Ta	g:	QFM0631					
SI	tatus:		Device connected					
S	oftware V	ersion:	1.0.6.4					

3 You can edit color space parameters or edit name information (UP3221Q only) for CAL 1 or CAL 2 by clicking on the hyperlink.

	DA	ASHBOA	RD		Þ.		REPORT				SCI	HEDULER	
Select Co	lor Space	for Calib	ration and/o	Validation						Next 0	Cal. Time	Scheduler Dis	ables
Cal.	Val.	Color Sp	ace			Last Calibr	ation Date			Last Validation	n Date		
		S1: DCI P	3 D65 G2.4 L	100		2020.06.05				2020.06.05			
		S2: BT.70	9 D65 BT.188	6 L100									
	2	S3: BT.20	20 D65 BT.18	86 L100									
		S4: sRGB	D65 sRGB L1	20									
2	2	S5: Adobe	e RGB D65 G2	2 L160									
	X	S6: Adobe	e RGB D50 G2	2 L160									
•		H1: HDR	10 D65 ST.20	34 L1000									
		H2: HDR I	D65 HLG L10	00									
		CAL1: Stu	idio 1										
		CAL2											
CAL1	Studio 1		2										
	Cold	or Space:	Custom		×	White Point	Custom		~	Gamma:	2.4		
		RED x,y	0.6800	0.3200		WHITE x,y	0.3127	0.3291		Luminance:	100		
	GI	REEN x,y	0.2649	0.6900									
		BLUE x,y	0.1500	0.0600						Uniformity 0	Compensation	a 🗹 🛛 3D LUT: 🛛	-
				IMPOR			SAVE			CANCEL			

4 Click **Send to Display** to update the OSD.

	l	DASHBOARD	Þa -	REPORT		SCH	IEDULER
Select C	olor Space	e for Calibration and/or Validation				Next Cal. Time	Scheduler Disabled
Cal.	Val.	Color Space		Last Calibration Date	Last Val	idation Date	
		S1: DCI P3 D65 G2.4 L100		2020.06.05	2020.06	.05	
		S2: BT.709 D65 BT.1886 L100					
	2	S3: BT.2020 D65 BT.1886 L100					
		S4: sRGB D65 sRGB L120					
	2	S5: Adobe RGB D65 G2.2 L160					
	2	S6: Adobe RGB D50 G2.2 L160					
M		H1: HDR 10 D65 ST.2084 L1000					
		H2: HDR D65 HLG L1000					
	2	CAL1: Studio 1					
	2	CAL2					
	Cevice Nar Service Ta Status:	me: UP3221Q	d				
	Software V	fersion: 1.0.6.4					

- 5 Click on the Date and Time hyperlink on the upper right corner to go to the Scheduler page to set calibration, validation, or calibration and validation schedule.
- NOTE: The Service Tag and Software Version numbers in this guide are illustrations only, and may differ from what are shown on your display. Please refer to your display for the correct Service Tag and Software Version numbers to your software.

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Report

The Report page shows the most recent calibration and/or validation results.

1	DASHBOARD	Þe	REPC	DRT		SCHEDULER	
Model	Service "	Гад	Usage Time	Calibrated Date		Reference Device	
UP3221Q	QFM063	1	67h	2020.06.05		Built-in	
Color Space S1: DCI P3 D65 G2	4 L100	~					
	Target	Result	0.9		110		
Brightness:	100	98.98	0.8		82		
White Point:	0.3128 / 0.3292	0.3131 / 0.3290	0.7				
	6500 K	6484 K	0.6		68		
Gamma:	2.4	2.4	0.5		55		
Gamut R:	0.6800 / 0.3200	0.6742 / 0.3184	0.4		41		
Gamut G:	0.2650 / 0.6900	0.2652 / 0.6833	0.3		27		1
Gamut B:	0.1500 / 0.0600	0.1512/0.0614	0.1		13		
				13 0.4 0.5 0.6 0.7 0.8	0 31	63 95 127 159 191 223 2	255
			Graph view			Besult	250
Dell Calibration	Assistant					Target	
	I Assistant DASHBOARD	₽ ŋ		v Table view		Save Report	
	DASHBOARD		Graph view	v Table view		Save Report Monitor1-UP32210 CHEDULER	
		Tag	Graph view	v Table view		Save Report Monitor1-UP3221Q × Q	
Model UP3221Q Color Space	DASHBOARD Service QFM063	Tag	Graph view REPC Usage Time	v Table view		Save Report Monitor1-UP32210 v Q SCHEDULER Reference Device	
Model UP3221Q Color Space S1: DCI P3 D65 G2 S1: DCI P3 D65 G2 S2: BT.70 D65 BTC S3: BT.2020 D65 B S4: BTC0 D65 BTC	AL100 AL100	Tag	Graph view REPC Usage Time 67h	v Table view		Save Report Monitor1-UP32210 v Q SCHEDULER Reference Device	
Model UP32210 Color Space S1: DCI P3 D65 G2 S2: B17:00 D65 B1 S2: B17:00 D65 B1 S3: B12:02 D65 B1 S4: B12:02 D65 B1 CAL: Studie 1	4 L100 4 L100 4 L100 4 L100 1 L166 1 L00 1 L166 1 L00 1 L00	Tag 1	Graph view REPC Usage Time 67h 0.9 0.9 0.9 0.9	v Table view	110 96 82	Save Report Monitor1-UP32210 v Q SCHEDULER Reference Device	
Model UP3221Q Color Space S1: DCI P3 D65 G2 S1:	4 L100 4 L100 4 L100 4 L100 1 L166 1 L00 1 L166 1 L00 1 L00	Tag 1	Graph view REPC Usage Time 67h 67 67	v Table view	110 96 82 68	Save Report Monitor1-UP32210 v Q SCHEDULER Reference Device	
Model UP32210 Color Space S1: DCI P3 D65 G2 S2: B17:00 D65 B1 S2: B17:00 D65 B1 S3: B12:02 D65 B1 S4: B12:02 D65 B1 CAL: Studie 1	4 L100 4 L100 4 L100 5 C 2 L160 5	fag 1	Graph view REPC Usage Time 67h 0.9 0.9 0.9 0.9	v Table view	110 96 82 64 55	Save Report Monitor1-UP32210 v Q SCHEDULER Reference Device	
Model UP32210 St. DCI P3 065 22 St. DCI P3 065 22 St. DCI P3 065 22 St. P3 07 065 RT St. Adde RGB 05 H1: H0R 10055 RG X2: MD 065 HL CAL: Studio 1 CAL: Studio 1	A L100 4 L100 4 L100 5 022 L180 5 020 L180 5 00 L180 5 000 L180 5 000 L180 5 000 L180 5 000 L180 5 000 L180 5	6484 K	Graph view REPC Usage Time 67h	v Table view	110 96 82 68 55 41	Save Report Monitor1-UP32210 v Q SCHEDULER Reference Device	
Model UP32210 Color Space Si DCI P3 D65 G2 Si DCI P3 D65 G2 Si Si DCI P3 D65 G2 Si Si DCI P3 D65 G2 Si Si DCI P3 D65 G2 Si Si DCI P3 D65 G2 Si Si DCI P3 D65 G2 Si Si DCI P3 D65 G2 Si Si DCI P3 D65 G2 Si Si DCI P3 D65 G2 Si Si DCI P3 D65 G2 Si MCI P3 D65 G2 Si MCI P3 D65 G2 Si MCI P3 D65 G2 Si MCI P3 D65 G2 Si MCI P3 D65 G2 Si MCI P3 D65 G2 Si MCI P3 D65 G2 Si MCI P3 D65 G2 Si MCI P3 D65 G2 Si MCI P3 D65 G2 Si MCI P3 D65 G2 Si MCI P3 D65 G2 Mathematical P3 D65 G2 Si MCI P3 D65 G2 Si MCI P3 D65 G2 Si MCI P3 D65 G2 Si MCI P3 D65 G2 Si MCI P3 D65 G2 Si MCI P3 D65 G2 Si MCI P3 D65 G2 Si MCI P3 D65 G2 Si MCI P3 D65 G2 MAINTON P3 D65 G2 Si MCI P3 D65 G2 MAINTON P3 D65 G2 Si MCI P3 D65 G2 MAINTON P3 D65 G2 Si MCI P3 D65 G2 MAINTON P3 D65 G2 Si MCI P3 D65 G2 MAINTON P3 D65 G2 Si MCI P3 D65 G2 MAINTON P	ALTIDO AL	6484 K 2.4 0.6742 / 0.3184 0.2652 / 0.6833	Graph view REPC Usage Time 67h 63 64 64 64 64 64 64 64 64 64 64 64 64 64	v Table view	110 96 82 64 55	Save Report Monitor1-UP32210 v Q SCHEDULER Reference Device	
Model UP32210 Color Space St. DCI P3 065 52. St. DCI P3 065 52. St.	AL100 4.100 4.100 0.7M63 4.100 0.7M63 5.20	6484 K 2.4 0.6742 / 0.3184	Graph view REPC Usage Time 67h	v Table view	110 96 82 68 41 27 13	Save Report Save Report SoveCounce Reference Device Duiltin	

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For model(s) listed below, if your monitor is calibrated using Calman Ready software, the Report page will show that the monitor is "Calibrated by Calman Ready"

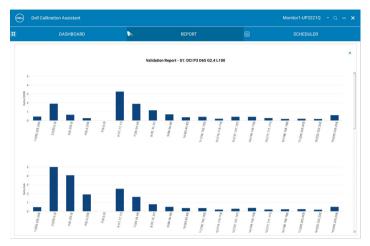
• UP2720Q

	ASHBOARD	Þa	REPO	RT				SCI	HEDU	LER		
Model	Service	Тад	Usage Time	Calibrated Dat	e		Refere	nce Dev	vice			
UP2720Q	A000007	-	51h	2020.04.30			Built-in					
Color Space												
CAL 1		~										
	T	Description	0.9		250							
	Target	Result	0.9		250 218							
Brightness:	250	N/A	0.8									
Brightness: White Point:	250 0.3128 / 0.3292	N/A N/A	0.8		218							
White Point:	250 0.3128 / 0.3292 6500 K	N/A N/A N/A	0.8 0.7 0.6 0.3		218 187							
White Point: Gamma:	250 0.3128 / 0.3292 6500 K 2.2	N/A N/A N/A	0.8 0.7 0.6 0.5 0.4		218 187 156 125							
White Point: Gamma: Gamut R:	250 0.3128 / 0.3292 6500 K 2.2 0.6400 / 0.3300	N/A N/A N/A N/A	0.8 0.7 0.6 0.5 0.4 0.3		218 187 156 125 93							
White Point: Gamma:	250 0.3128 / 0.3292 6500 K 2.2	N/A N/A N/A	0.8 0.7 0.6 0.5 0.4 0.3 0.2		218 187 156 125 93 62							
White Point: Gamma: Gamut R: Gamut G:	250 0.3128 / 0.3292 6500 K 2.2 0.6400 / 0.3300 0.2100 / 0.7100	N/A N/A N/A N/A N/A	0.5 0.7 0.6 0.5 0.4 0.3 0.2 0.1		218 187 156 125 93 62 31							
White Point: Gamma: Gamut R: Gamut G:	250 0.3128 / 0.3292 6500 K 2.2 0.6400 / 0.3300 0.2100 / 0.7100	N/A N/A N/A N/A N/A	0.5 0.7 0.6 0.5 0.4 0.3 0.2 0.1	3 0.4 0.3 0.6 0.7 0.9	218 187 156 125 93 62	31	53 95	127	159	191	223	25

NOTE: For models listed above, this software will not display reports generated by Calman Ready. Please use Calman Ready software to view these reports.

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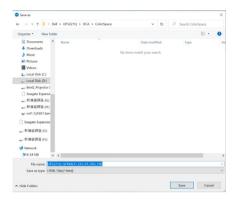
You can choose to review the report in different forms by clicking on **Graph View** or **Table View**.

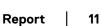


	DASHBOARD	Þa	REPORT				SCHEDU	ER
		Va	alidation Report - S1: DCI P3 D65 G2	2.4 L100				
No.	Color Patch	Target (Lab)	Measured (Lab)	Δ E2000	∆ Eab	Δ E94	∆ Hab	Δ EITP
1	(255, 255, 255)	(100.00, 0.00, 0.00)	(99.60, 0.26, -0.03)	0.45	0.48	0.48	0.00	0.78
2	(255, 0, 0)	(55.02, 93.99, 93.19)	(54.92, 93.59, 87.04)	1.90	6.16	1.58	4.16	5.82
3	(0.255.0)	(86.61, -115.27, 107.66)	(86.27, -113.77, 103.89)	0.66	4.07	0.78	1.75	3.30
4	(0, 0, 255)	(33.95, 81.93, -111.63)	(34.06, 80.66, -110.20)	0.28	1.91	0.30	0.17	2.78
5	(0, 0, 0)	(0.66, 0.22, -0.55)	(0.66, 0.22, -0.55)	0.00	0.00	0.00	0.00	0.00
6	(17, 17, 17)	(2.01, 0.00, 0.00)	(3.09, 2.30, 0.19)	3.27	2.55	2.35	0.00	16.38
7	(34, 34, 34)	(7.82, 0.00, 0.00)	(8.87, 1.21, -0.33)	1.89	1.63	1.58	0.00	5.43
8	(51, 51, 51)	(16.37, 0.00, 0.00)	(16.46, 0.79, 0.10)	1.16	0.80	0.78	0.00	1.91
9	(68, 68, 68)	(24.52, 0.00, 0.00)	(24.71, 0.46, -0.12)	0.70	0.51	0.50	0.00	1.11
10	(85, 85, 85)	(32.32, 0.00, 0.00)	(32.49, 0.11, -0.32)	0.38	0.38	0.37	0.00	0.75
11	(102, 102, 102)	(39.84, 0.00, 0.00)	(40.03, -0.21, -0.24)	0.42	0.37	0.37	0.00	0.87
12	(119, 119, 119)	(47.13, 0.00, 0.00)	(47.18, 0.05, -0.19)	0.21	0.20	0.20	0.00	0.30
13	(137, 137, 137)	(54.63, 0.00, 0.00)	(54.64, 0.28, 0.07)	0.43	0.29	0.29	0.00	0.48
14	(154, 154, 154)	(61.53, 0.00, 0.00)	(61.71, 0.18, -0.30)	0.43	0.39	0.39	0.00	0.58
15	(171, 171, 171)	(68.29, 0.00, 0.00)	(68.37, 0.18, -0.07)	0.29	0.21	0.21	0.00	0.29
16	(188, 188, 188)	(74.92, 0.00, 0.00)	(75.15, 0.02, 0.08)	0.18	0.24	0.24	0.00	0.52
17	(205, 205, 205)	(81.43, 0.00, 0.00)	(81.64, 0.05, 0.12)	0.20	0.25	0.25	0.00	0.48
18	(222, 222, 222)	(87.84, 0.00, 0.00)	(87.92, -0.04, 0.16)	0.18	0.19	0.19	0.00	0.23
19	(239, 239, 239)	(94.14, 0.00, 0.00)	(94.44, -0.38, 0.18)	0.61	0.51	0.51	0.00	0.65

10 Report

You can also Save Report in HTML format for web posting.





Scheduler

The Scheduler page allows you to set calibration, validation, or calibration and validation schedule.

To set calibration and/or validation schedule, do the following:

- 1. Select the schedule:
 - Based on Usage Hours—Sessions based on usage time.
 - **Periodic**—Sessions based at a set interval.

6944	Dell Calibration Assistant					Monitor1-UP3221Q × Q -
	DASHBOARD	Þ.	REF	PORT		SCHEDULER
s	Schedule Sessions:	Based on Usage Hou	ars O Per	iodic		
s	Start Time:	12:00 AM				
P	Periodic Pattern:					
(Quarterly	Quarterly:	Jan - Apr - Jul - Oct			
	Monthly	Week:	1			
	Weekly	Day:	Mon			
	Daily					
c	Operation Mode:	Prompt before startin	ng session (Carry out in sk	eep mode	
	Scheduler will not proceed while the execution	n of Dell Calibration Assistant	L		Resync Display Clock	Send to Display

2 For **Periodic** calibration, validation, or calibration and validation, set your preferred periodic pattern and start time.

•••• •	ell Calibration Assistant							
1	DASHBOARD	⊳ n		REPORT			SCHEDULER	
Sch	edule Sessions:	O Based on Usage Hou	rs	Periodic				
Star	rt Time:	12:00 AM						
Peri	iodic Pattern:							
•	Quarterly	Quarterly:	Jan - Apr - Jul - Oct	Ý				
01	Monthly	Week:	1	÷.				
OV	Weekly	Day:	Mon	~				
O	Daily							
Ope	eration Mode:	Prompt before starting	ng session	◯ Carry ou	t in sleep mode			
	heduler will not proceed while the execution	of Dell Calibration Assistant			Resync	Display Clock	Send to Display	

- **3** Select the Operation Mode:
 - Prompt before starting session—prompts the user for approval to start the process.
 - **Carry out in sleep mode**—starts the process automatically when the monitor is in sleep mode.
- 4 Click **Send to Display** to update the schedule of the OSD.

Resync Display Clock

Resync Display Clock allows you to sync the date and time of the computer to your monitor. You are advised to **Resync Display Clock** when one of the following occur:

- Setting up the monitor for the first time
- Monitor has been disconnected from power for more than 10 days.

 Dell Calibration Assistant						Monitor1-UP3221Q	- a - x
 DASHBOARD	⊳ n		REPORT			SCHEDULER	
Schedule Sessions:	O Based on Usage Ho	urs	Periodic				
Start Time:	12:00 AM						
Periodic Pattern:							
Quarterly	Quarterly:	Jan - Apr - Jul - Oct	~				
○ Monthly	Week:	1	~				
⊖ Weekly	Day:	Mon	~				
○ Daily							
Operation Mode:	Prompt before starti	ing session	⊖ Carry out	in sleep mode			
*Scheduler will not proceed while the executi	on of Dell Calibration Assistan	ıt.		Resync D	Pisplay Clock	Send to Disp	lay

Troubleshooting

Common Symptoms	What You Experience	Possible Solutions
Monitor not detected	Application cannot detect monitor, and a connection error message appears.	Ensure you are using Dell UP3221Q/ UP2720Q monitor with built-in colorimeter.
		 Follow Before you begin to check if a Thunderbolt[™] 3 Active cable or USB Type- C to A cable is properly connected between the UP3221Q/UP2720Q monitor and the computer.
		 For Linux, ensure you have the following steps completed:
		1 Create a new file /etc/udev/rules.d/99- dellmonitor-up2720q.rules with the following statement (case sensitive): SUBSYSTEM=="usb", ATTR{idVendor}=="0424", ATTR{idProduct}=="274c", MODE="0666" SUBSYSTEM=="usb", ATTR{idVendor}=="413c", ATTR{idVendor}=="b072", MODE="0666"
		2 Create a new file /etc/udev/rules.d/99- dellmonitor-up3221q.rules with the following statement (case sensitive): SUBSYSTEM=="usb", ATTR{idVendor}=="0424", ATTR{idProduct}=="274c", MODE="0666" SUBSYSTEM=="usb", ATTR{idVendor}=="413c", ATTR{idVendor}=="b089", MODE="0666"

14 | Troubleshooting

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Unable to launch Dell Calibration Assistant	A warning message appears: "Failed to execute script DellCalibration Assistant"		For Windows, download and install "Microsoft Visual C++ Redistributable for Visual Studio 2015-2019 (x86)" and "Microsoft Visual C++ Redistributable Packages for Visual Studio 2013 (x86)" from following link: https://support.microsoft.com/en-us/ help/2977003/the-latest-supported- visual-c-downloads.
Cannot select Color Space	No response when trying to select Color Space	•	Ensure a Thunderbolt [™] 3 Active cable or USB Type-C to A cable is properly connected between the UP3221Q/ UP2720Q monitor and the computer. Close and restart the application.
Cannot edit the Scheduler	Scheduler is grayed out and cannot be edited	•	Ensure a Thunderbolt™ 3 Active cable or USB Type-C to A cable is properly connected between the UP3221Q/ UP2720Q monitor and the computer.
		•	Select Periodic to enable the Start Time and Periodic pattern options on the Scheduler tab.
Calibration and/or validation did not start at scheduled time	Colorimeter did not start at scheduled time	•	Close and restart the application. If you have selected Carry out in sleep mode and your monitor is active at the scheduled time, the calibration and/or validation will not start until your monitor is in sleep mode. Resync the monitor clock with your computer clock. See Resync Display Clock .

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