

# How to set up and calibrate your EIZO

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### INTRODUCTION

## Congratulations!

You've invested in an EIZO monitor. You've gone through the exciting unboxing process.

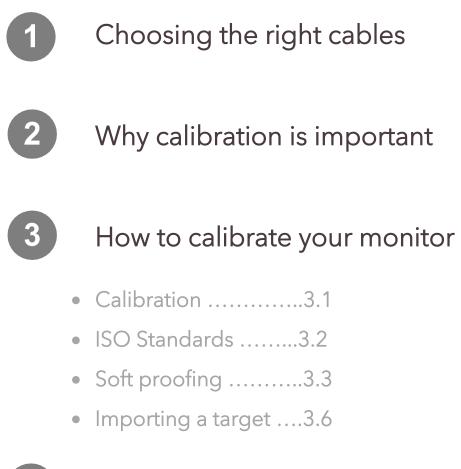
Now what?

In this e-book, we will go through step-by-step how to set up and calibrate your EIZO monitor.

By the end of this guide, you will know how to connect your monitor, set up your photo editing profile and set up two types of print proofing profiles (one universal, and one especially for your own environment).

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### Frequently asked questions







### **CHAPTER ONE**

# Choosing the Right Cables

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# 1. Choosing The Right Cables

In this chapter, we'll look at the different cables needed to connect your computer to your EIZO monitor.

#### IMAGE SIGNAL CABLE

If you're using a Mac, you will have either a mini DisplayPort, HDMI or a USB Type-C port\*.

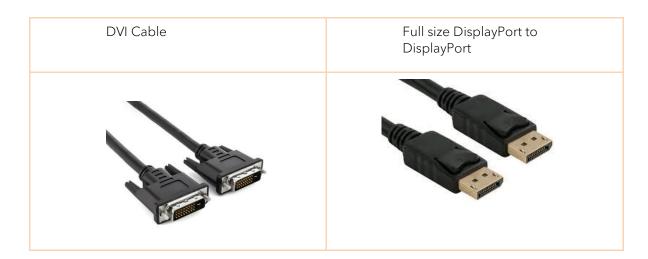
If you're using a PC, you will likely have at least one of the following ports: DVI, DisplayPort, Mini DisplayPort, HDMI or USB Type-C.

Check the specifications tab on the product page to ascertain which cables come with your monitor.

Mini DisplayPort to DisplayPort	USB-C to DisplayPort
USB-C to USB-C	HDMI - HDMI Note - HDMI v1.4 can only comfortably handle 24" resolution. CG319x & CG3145 are HDMI v2.0

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\*If you're unsure which cable will fit your computer, check your user manual to find out the ports available on your computer. Alternatively, you are welcome to take a photograph of your signal ports and email <u>support@eizo.com.au</u>

#### POWER CABLE AND CALIBRATION DATA CABLE

Next, connect your POWER CABLE and USB A to B CABLE\* (the USB cable is required for calibration. Plug square end in to monitor.)

\*USB A-B cable is NOT required when a **USB-C to USB-C signal cable** is used - (CG279X only).









### **CHAPTER TWO**

# Why is Calibration Important?

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## **2.** Why is Calibration Important?

Let's dive into why monitor calibration is important.

Maintaining a level of consistency is crucial in the creative workflow. Whether you're creating for yourself or for a client, you want to ensure what you see on your screen (that you're no doubt spending countless hours on), is what your client will experience.

How many times have you found yourself having to print an image over and over because what you have printed isn't matching what you see on the screen? Or, when you post online & the colours look different to what you intended?

This is one of the biggest frustrations photographers and creatives face in the final stage of the workflow. All of that time, paper and ink -wasted. The frustration of intention not meeting reality.

You should be able to enjoy every aspect of your workflow, including editing and printing. To TRUST what you are seeing on screen is (a) what's held in the image file, and (b) what will eventuate in your final output. This is where monitor calibration comes into play.

The key benefits of monitor calibration and colour management are a significant increase in:

- Accuracy
- Consistency & Quality
- Productivity



Accuracy: With EIZO, you can rest assured that what you're capturing in camera, is being displayed accurately on screen. For example, an image shot in RAW with an Adobe RGB colour space will be reflected on your EIZO monitor displaying a 99% Adobe RGB Gamut.

**Consistency and quality:** Preventing on-screen colour drift, regular calibration and colour management ensures consistency throughout your workflow. No more working with a moving target!

**Productivity:** When you utilise colour management and monitor calibration together to create consistency, you will see an increase in productivity. With all devices from start to finish in synchronicity with each other, your trust in what you are creating and seeing will allow for efficiency in your workflow.

Accuracy, consistency, quality and productivity are a result of a colour managed workflow. Calibrating your monitor should be slotted into your calendar as a non-negotiable.

Remember, there will be discrepancies that will influence any colour managed workflow. But, with the right dose of understanding and diligence, managing them will be a piece of cake.



### **CHAPTER THREE**

# How to Calibrate Your EIZO Monitor

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## How to Calibrate Your EIZO Monitor

Whether you're using an EIZO that is five years old or two months old, EIZO ColorNavigator "hardware calibration" software is a must. ColorNavigator comes loaded with features that will add value and increase efficiency in your workflow. These include -

- Hardware calibration
- Creating an ICC profile
- Adjusting the displayed colours
- Soft proofing (emulate print)
- Match other monitors, projectors, televisions (both EIZO and other)
- Emulate digital devices (iPad etc)

Torun ColorNavigator, connect the USB A-B cable between your computerand monitor (square end in to monitor).

<mark>ColorNavigator v7</mark> software is a free download from the EIZO Global website and can be accessed <u>here</u> .

#### PLEASE EMAIL INFO@EIZO.COM.AU IF YOU REQUIRE ColorNavigator v6 INSTRUCTIONS

Have you installed ColorNavigator onto your computer? Now you're ready to run your first calibration!



To begin your monitor calibration, launch *ColorNavigator7*. (If it doesn't appear on screen after double-click, locate the butterfly icon in your dock (Mac) or task bar (PC), right click, start ColorNavigator).

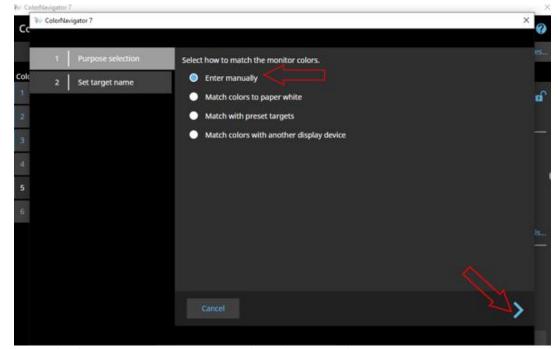
## **3.1 - Set up and calibrate to your Universal Photographic Editing Target**

The following calibration will create a generic photography editing profile target based on ISO 3664 settings. This is the starting point for your image editing. This profile is not referencing any output device, it is a screen based profile - serving up the truest most neutral view in to your image file. This is your 'go to' photo editing mode.

₩ Colo	rNavigator 7									×
Colo	orEdge CG2730(3	9487060	)							?
					Monitor settings	~	Tools	~	Preferen	nces
Color	mode		Target					<b>^</b>		
1	Custom	STD	CAL2_00000001							<b>n</b>
2	Adobe RGB	STD		Target	Result			get se	_	
3	sRGB	STD	Brightness Black level	80 cd/m <sup>2</sup> Minimum			Create Edit	a new	target	-
4	CAL1	ADV	Contrast ratio White point	x: 0.3457 y: 0.3585			Export. Import			
5 (	CAL2	ADV	Gamma (EOTF) Priority Gamut	2.20 Fixed gamma Native			Target	mana	gement	
6	CAL3	ADV	RG	Houve						
			B Gamut Clipping	off					Display det	tails
				The monitor is not ca	alibrated. Calibrate it.					
			Calibrate Ad	vanced functions					Close	

#### >Target settings > Create a new target...

#### >Enter manually > Proceed with arrow



Enter both the Target name, and Color Mode name.



#### Terminology:

Mode name - the mode is like a folder where you can save your profile targets. There can be many profile targets saved to a mode but only one can be active at a time.

Modes can be accessed by pressing the MODE button on the front of the monitor (usually the 2<sup>nd</sup> button from the left).

There are usually around 6 to 8 mode spaces available (depending on your EIZO model).

Target name - this should really be named "profile target" (the target is the file that contains the monitor calibration settings - colour temperature, gamma, brightness, black point, gamut etc). We calibrate to a target, thus an ICC profile is created and automatically saved to your system folder.

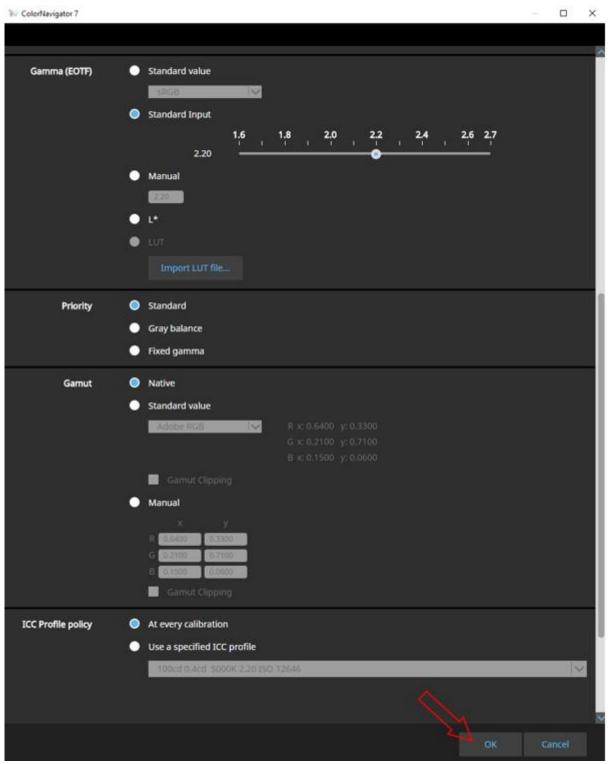
Target name - Photo Editing ISO 3664 Set mode name - Photo Edit (Ensure that the "Set mode name" checkbox is ticked)

Run through the settings as outlined in the following screen shots (don't forget to scroll down or increase window size to select all relevant settings).

One exception to the recommended settings:

BRIGHTNESS: While we recommend 120cd/m2 for most office environments, if you edit your images in a slightly darkened room with blinds drawn and correct lighting (recommended for photo editing), set your brightness between 80cd/m2 - 100cd/m2.

Rule of thumb: the monitor must be the brightest point in the room to prevent distractions, but should not be blindingly bright.



>OK>Finish

ColorNavigator will return to the home page, showing your new target.
You will see your mode name and the associated profile target.
You are now ready to >Calibrate

#### W ColorNavigator 7

Co	lorEdge CG2730(	39487060)					0
					Monitor settings	✓ Tools	✔ Preferences
Colo	r mode	т	arget				
1	Custom	STD	Photo Editing ISO 366	4 🗾 Ta	arget name		✓ n <sup>2</sup>
2	Adobe RGB	STD		Target	Result		get settings 🗸 🗸
3		STD	Brightness Black level	80 cd/m <sup>2</sup> 0.4 cd/m <sup>2</sup>			
4	CAL1	ADV]	Contrast ratio White point	6500 K			
5	Photo Edit	ADV	Gamma (EOTF) Priority	2.20 Standard			
6	CAL3	ADV]	Gamut R	Native			
			G B Gamut Clipping	Off			Display details
	Color m	ode name	Gamue Cilpping –		not calibrated. Calibrate it.		
							i .
			Calibrate Adva	nced functions	^		Close
			Calibrate Adva	nced functions	^		Close

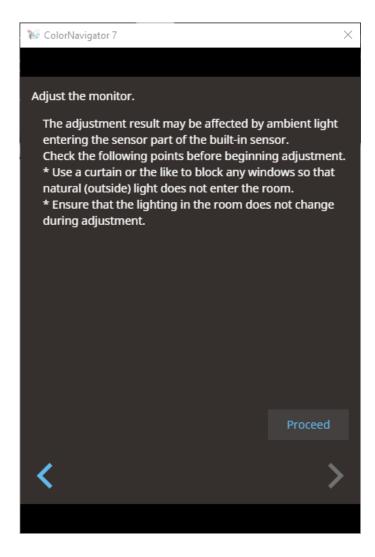
 $\times$ 

Whether you have decided to utilize your own external sensor, or the sensor built in to the monitor, your sensor <u>should</u> appear in the following list. If it does not appear, uncheck the box, and click in the sensor selection field. All compatible sensors will appear. Select yours.

Troubleshooting tip -If your sensor does not appear or connect (a) is your PC and EIZO connected via the USB cable? (b) is your sensor plugged in to the USB port in your EIZO? (c) Quit CN, switch off your monitor at the wall & wait for 1 minute, switch the monitor back on, plug in your sensor, launch CN. (d) Uninstall and re-download/install CN.

🥡 ColorNav	igator 7			×
1	Measurement device selection	Select a measurement de	vice.	
2	Calibrate		Display automatically detected device.	
3	Calibration completed	Measurement device	Built-in Sensor	<b>↓</b>
			User calibration Default	
			Reference device	
			Execution date	
		Cancel		>

> Ensure that there is no light shining or reflecting directly on to the screen. Proceed



#### 🐝 ColorNavigator 7

1	Measurement device selection	Monitor calibration has com	pleted.		
2	Calibrate		Target	Result	
-	Cullorate	Brightness	80 cd/m <sup>2</sup>	80.1 cd/m <sup>2</sup>	
3	Calibration completed	Black level	0.4 cd/m <sup>2</sup>	0.36 cd/m <sup>2</sup>	
	calibration completed	Contrast ratio	6500 K	219:1	
		White point	6500 K	x: 0.3129 y: 0.3292 6496 K	
		Gamma (EOTF)	2.20	0450 K	
		Priority	Standard		
		Gamut	Native		
		R		x: 0.6797 y: 0.3109	
		G		x: 0.2165 y: 0.7225	
		В		x: 0.1523 y: 0.0481	
		Gamut Clipping	Off		
		/			Finish

#### >Finish

## Optional\* For extra reassurance, you may choose to do a target validation

Co	lorEdge CG2730	(39487060)	)						C
					Monitor settings	×	Tools	*	Preferences
Colo	r mode		Target						
	Custom	STD	Photo Editing ISO 36	54					~ 0
2	Adobe RGB	STD		Target	Result			get set	tings 🗸
3	sRGB	STD	Brightness Black level	80 cd/m <sup>2</sup> 0.4 cd/m <sup>2</sup>	80.1 cd/m <sup>2</sup> 0.36 cd/m <sup>2</sup>				
4	CAL1	[ <u>ADV]</u>	Contrast ratio White point	6500 K	219 : 1 x: 0.3129 y: 0.3292 6496 K	1			
5	Photo Edit	ADV]	Gamma (EOTF)	2.20					
3	Sec. 20	80.000	Priority Gamut	Standard Native			0		
	CAL3	[ADV]	R		x: 0.6797 y: 0.3109				
			G		x: 0.2165 y: 0.7225				
			B		x: 0.1523 y: 0.0481				Display details
			Gamut Clipping	off					
			Adjustment date	2021-01-27 15:16 When the monito	i or is used for 139 hour(s), (	adjustr	nent will	be exe	cuted.
				dation					
			Mar	ual adjustment					
			Calibrate Adv	anced functions					Close

 $\times$ 

# **3.2 Set up a universal Soft Proofing (fine art print preview) profile target**

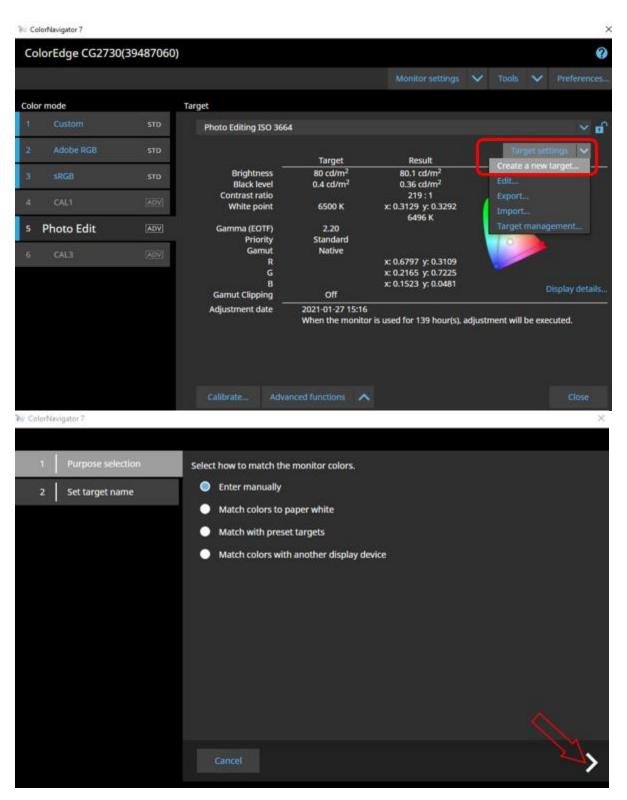
When you have finished your primary edits, you may want to check/tweak your image/s to account for the printer / paper combo. This is where your Soft Proofing colour mode comes in to play.

Here we will show you how to set up a universal print proofing profile target. Once done, you may want to take it one step further, and tweak it to suit your own environment and workflow (section 3.3). We only recommend this for "closed loop workflows" where you print your own images.

The following settings are based on ISO 12646 recommended settings, but adjusted to suit our experience of real world set-ups.

Brightness: For Fine Art Printing, we suggest 80-100cd/m2, although for those in a very bright fluorescent lit room, you may elevate to 100 or 120cd/m2 for a closer monitor screen to paper match.

#### >Target settings > Create a new target > Enter manually ... Press arrow



Enter both the Target name, and Color Mode name.

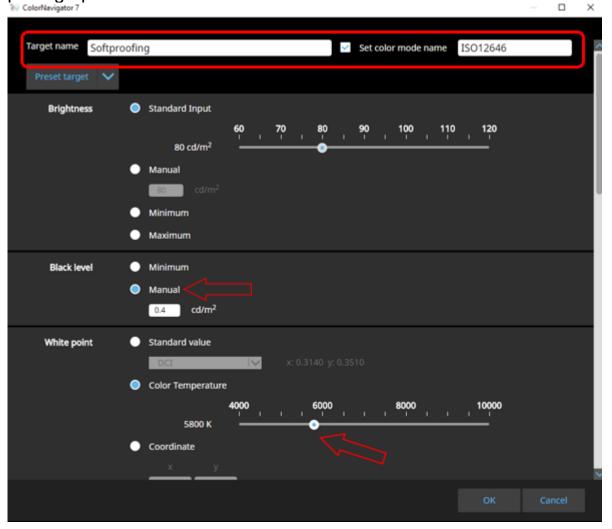
Target name – Softproofing or Lab Printing or something relevant to you.

Set color mode name – Softproof or Lab or something relevant to you

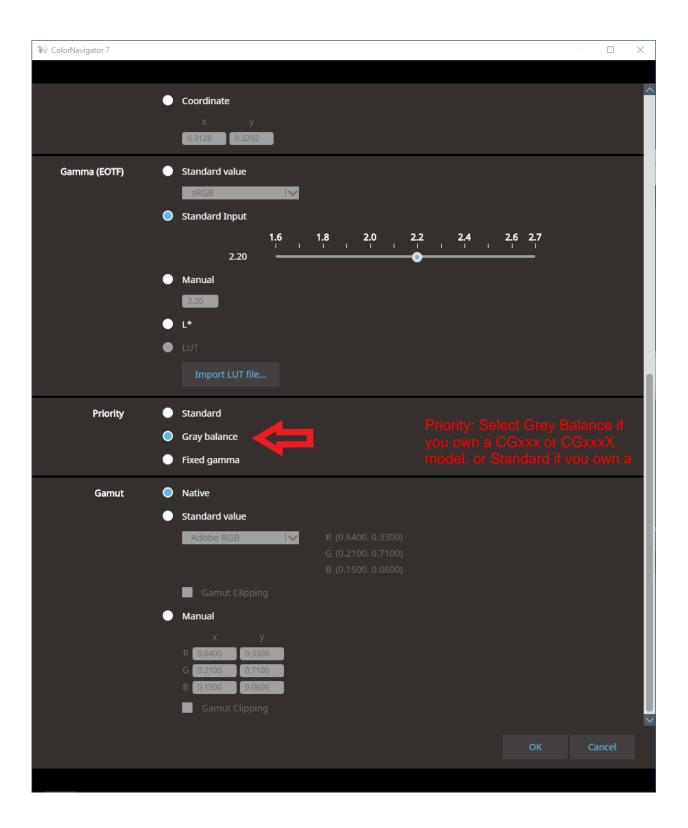
#### (Ensure that the "Set mode name" checkbox is ticked)

#### Run through the settings as outlined below

Note that while ISO 12646 suggests 5000k white point, we have found that 5800k is a more logical starting point for fine art printing, when taking in to account most photographer's media choice and ambient environment.



Remember to scroll down to complete all profile target settings.



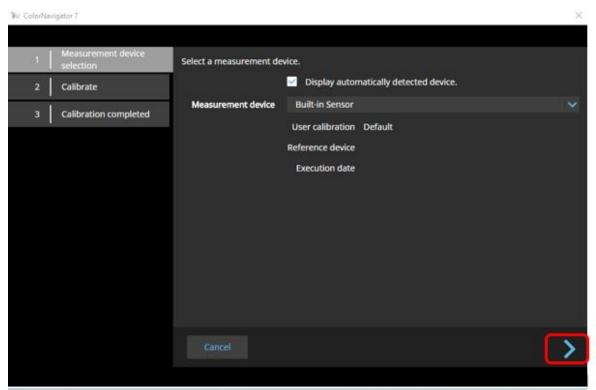
#### >OK > Finish

N/ ColorNa	vigator 7				×
1	Purpose selection	Set the name of the target.			
2	Set target name	Target name Softproof	ing		
		_	Target		
		Brightness Black level	80 cd/m <sup>2</sup> 0.4 cd/m <sup>2</sup>		
		Contrast ratio		$\sim$	
		White point	5800 K		
		Gamma (EOTF) Priority	2.20 Gray balance		
		Gamut	Native		
		R			
		G B			
		Gamut Clipping	Off		
					Customize target
		× .			Finish

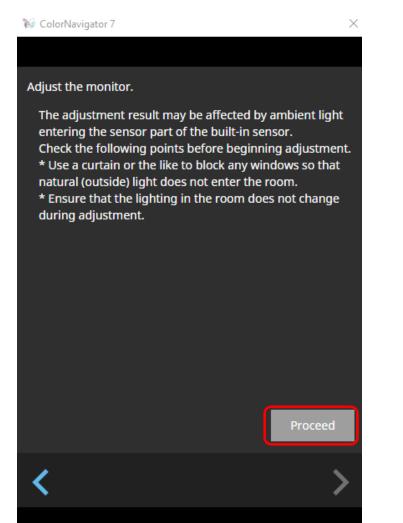
You will be reverted to the main target window.

### Now, Calibrate the target

₩ Co	lorNavigator 7								×
Co	lorEdge CG2730	(39487060)							0
					Monitor settings	~	Tools	~	Preferences
Colo	r mode		Target						
1	Custom	STD	Softproofing						✓ a <sup>2</sup>
2	Adobe RGB	STD	_	Target	Result		Targe	et sett	ings 🗸
3		STD	Brightness Black level	80 cd/m <sup>2</sup> 0.4 cd/m <sup>2</sup>					
4	CAL1	ADV	Contrast ratio White point Gamma (EOTF)	5800 K 2.20					
5	ISO12646	ADV	Priority Gamut	Gray balance Native			٠		
6	CAL3	[ADV]	R G						
			B Gamut Clipping	Off				D	isplay details
				The monitor is not c	alibrated. Calibrate it.				
			Calibrate Adva	nced functions					Close



#### Press Next arrow > Proceed > Finish



W ColorNavigator 7								×
ColorEdge CG2730	(39487060)	)						0
				Monitor settings	×	Tools	~	Preferences
Color mode		Target						
1 Custom	STD	Softproofing						1
2 Adobe RG8	STD	CAL2_00000001 Photo Editing ISO 366	4					
3 sRG8	STD	Print Proofing						
4 CAL1	(KON)	Softproofing Concess read White point	5800 K	x: 0.3256 y: 0.3415 5801 K	7			
5 ISO12646	ADV]	Gamma (EOTF)	2.20	JOULK				
6 CAL3	(ADV)	Priority Gamut R G B Gamut Clipping	Gray balance Native Off	x: 0.6803 y: 0.3111 x: 0.2165 y: 0.7227 x: 0.1526 y: 0.0485		C	,	Display details
		Adjustment date	2021-01-27 15:49	r is used for 138 hour(s), .	adjustr	nent will	be exe	cuted. Close

To scroll through the different targets in a color mode, select the drop down menu. This will let you change easily between different targets that have been created. When you select the Soft proofing target, the colour mode will automatically be renamed to the colour mode name that you set up earlier (ISO12646):

Congratulations! You have now completed your Universal Photo Editing profile and Universal Fine Art Soft Proofing profile Continue on only if you would like to tweak your Universal Fine Art Soft Proofing profile to match your own paper type and ambient environment even more precisely.

This is only for advanced users who:

- 1) Have a quality print viewing lamp or lighting (CRI >90)
- Print your own images in-house, or print your images with a regular (and colour managed) lab. IF you print at multiple labs, or labs who are not strictly colour managed, please skip this step.

# **3.3 Tweak your Soft Proofing "Profile Target" to match your environment\***

## *This will result in the closest possible monitor screen-to-print match BUT is only for those who*

(a) print their own images, or

(b) use a trusted colour managed photo lab.

If you do not have control over the final printed output, we recommend you stop here and use the 3.2 Universal Soft proofing Profile.

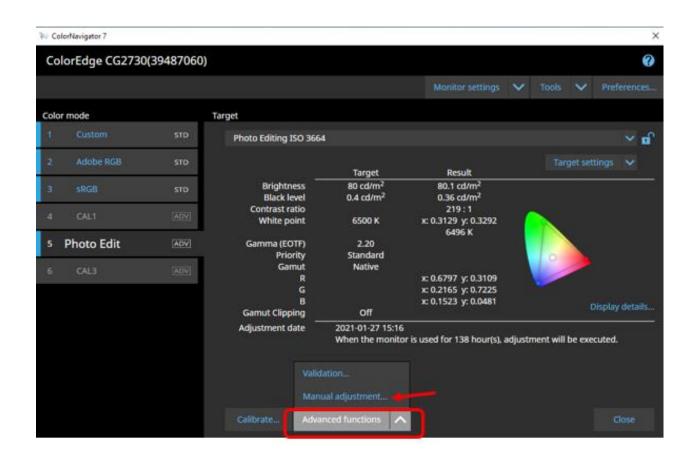
OPEN a blank white page in your photo editing software

COMPARE it to a blank piece of your fine art photographic paper.

SELECT the existing Photo Edit target (refer to Chapter 3 if you have not yet created this target

🥡 Co	olorNavigator 7								×
Co	olorEdge CG273	0(39487060)							0
					Monitor settings	~	Tools	~	Preferences
Colo	or mode		Target						
1	Custom	STD	Photo Editing ISO 3	664					✓ 🖬
2	Adobe RGB	STD		Target	Result		Targ	et set	tings 🗸
3	sRGB	STD	Brightness Black level	80 cd/m <sup>2</sup> 0.4 cd/m <sup>2</sup>	80.1 cd/m <sup>2</sup> 0.36 cd/m <sup>2</sup>				
4	CAL1	ADV	Contrast ratio White point	6500 K	219 : 1 x: 0.3129 y: 0.3292 6496 K				
5	Photo Edit	ADV	Gamma (EOTF) Priority	2.20 Standard	0490 K				
6	CAL3	ADV	Gamut R	Native	x: 0.6797 y: 0.3109			~	
			G B	Off	x: 0.2165 y: 0.7225 x: 0.1523 y: 0.0481			۵	Display details
			Gamut Clipping Adjustment date	2021-01-27 15:16	or is used for 138 hour(s), a	adjustm	nent will b	e exe	cuted.
			Calibrate Ad	lvanced functions	×				Close

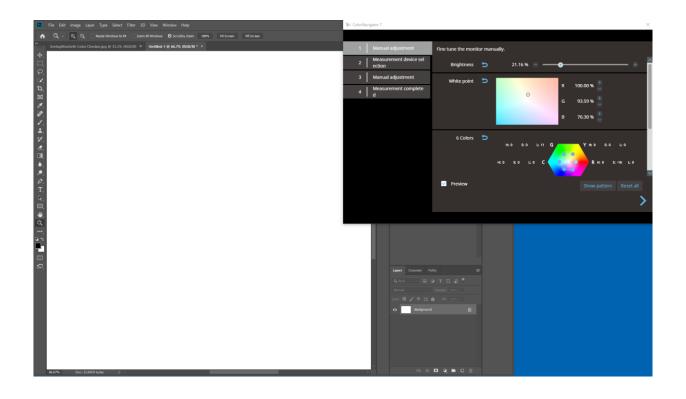
#### SELECT Advanced functions > Manual Adjustment



ADJUST the white point & brightness until you are satisfied.

Brightness should not be set higher than 120cd/m2. Please dim your print viewing light or move it further from your print if required.

For more on setting up a correct print viewing environment, visit: https://www.dropbox.com/s/botq2rzc1a153cb/Lighting\_Theory.pdf?dl=0



NEXT – we must match the colours

DOWNLOAD the Gretag MacBeth Colour Checkr or any target of your choice. You can download the Gretag target from Dr Les Walkling's site: <u>https://bit.ly/2GDfPYF</u>

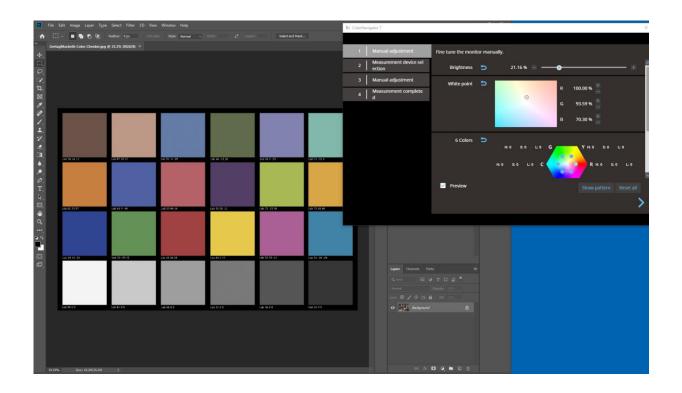
PRINT the target on to your preferred photographic paper (or have your lab print for you if you do not print your own)

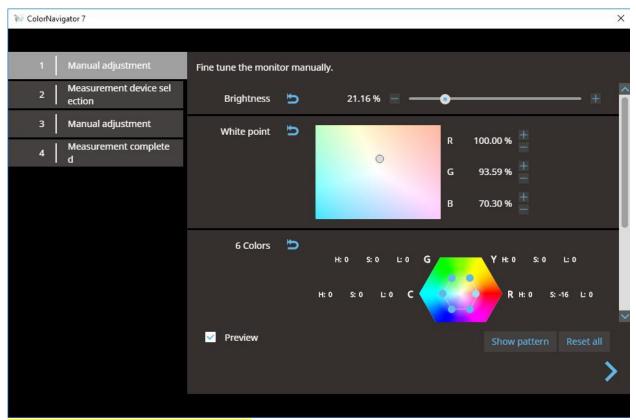
PLACE print in your print viewing area

DISPLAY same image in your Photo Editing software in your Adobe RGB colour working space

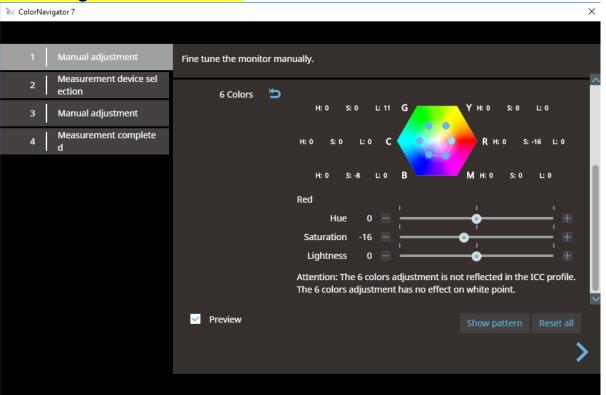
While comparing screen to print, **scroll down** using the right-side scroll bar to make your adjustments to 6 Colour Hue, Saturation, Lightness.

To adjust each color, select the blue dot in the colour hexagon and then adjust the hue, saturation and lightness below the hexagon (scroll down).





#### Don't forget to scroll down!

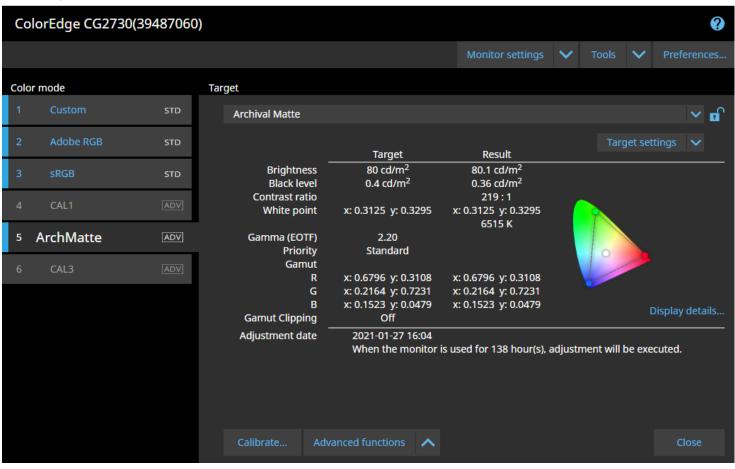


When you are satisfied with your match, select > to proceed with the calibration. Make sure you scroll down and tick the box at the bottom to save your manual adjustments as a new target. Name the target something meaningful (eg: Archival Matte)

🥡 ColorNavigator 7				×
1 Manual adjustment	Manual adjustment results are	shown below.		
2 Measurement device selection	Brightness	Target 80 cd/m <sup>2</sup>	Result 80.1 cd/m <sup>2</sup>	Manual adjustment 80.1 cd/m <sup>2</sup>
3 Measure	Black level	$0.4 \text{ cd/m}^2$	0.36 cd/m <sup>2</sup>	0.36 cd/m <sup>2</sup>
	Contrast ratio White point	6500 K	219 : 1 x: 0.3129  y: 0.3292	219 : 1 x: 0.3125  y: 0.3295
4 Measurement completed	Gamma (EOTF)	2.20	6496 K	6515 K 2.20
	Priority Gamut	Standard Native		
	R G		x: 0.6797 y: 0.3109 x: 0.2165 y: 0.7225	x: 0.6796 y: 0.3108 x: 0.2164 y: 0.7231
	В	- 55	x: 0.1523 y: 0.0481	x: 0.1523 y: 0.0479
	Gamut Clipping Advanced Settings	Off		Off
	Create a new target from	m manual adjustm	ent results	
	Target name Archiv	al Matte		
	🗹 Set color mode nan	ne ArchMatte		
	1			Finish

>Finish

🐝 ColorNavigator 7



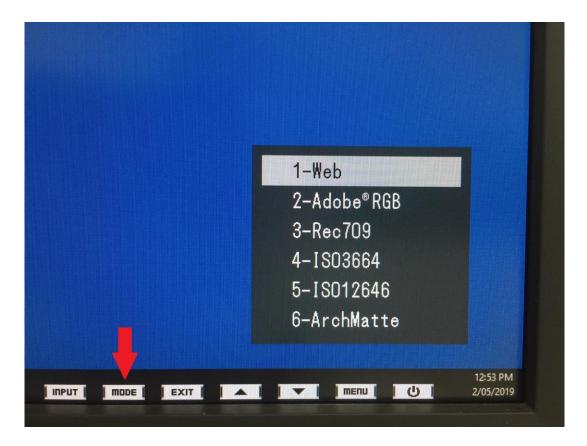
You have now matched your monitor to your own ambient environment/paper selection.

See following instructions on how to jump between your profiles...

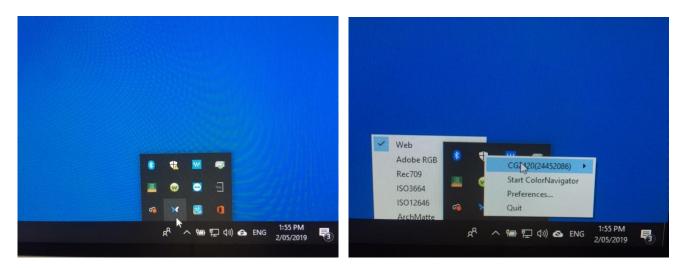
 $\times$ 

# **3.4 To jump between your editing and soft proofing profiles, you can**

a) Use the MODE button on the front of your monitor

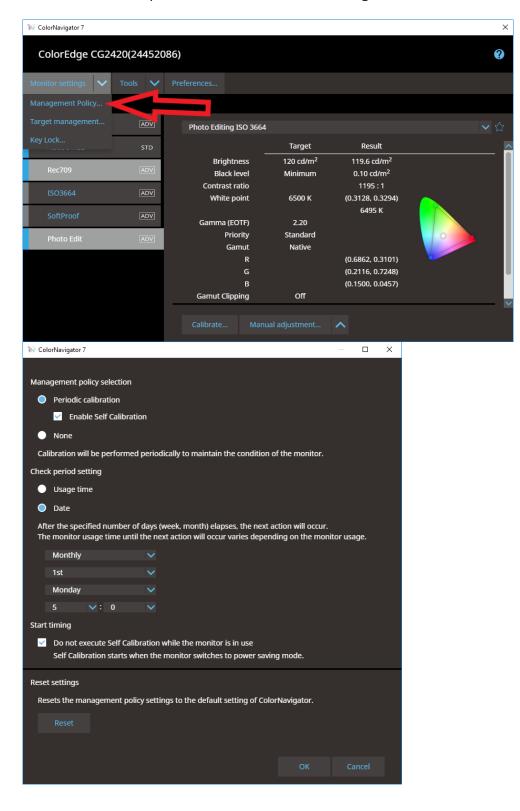


b) Right-click on the CN7 icon (butterfly) in task bar or dock



### **3.5 Schedule the Self-calibration**

Don't forget to set your calibration schedule - we recommend monthly as a minimum. The monitor will switch itself on at the scheduled time, warm up, self-calibrate, then power back down. Settings as follows:



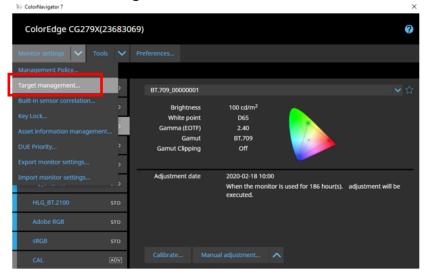
### **3.6 Exporting & Importing Targets**

If you have more than one EIZO CG monitor (same model/year) you may like to export your manually adjusted target and apply it to your other EIZO CG monitors.

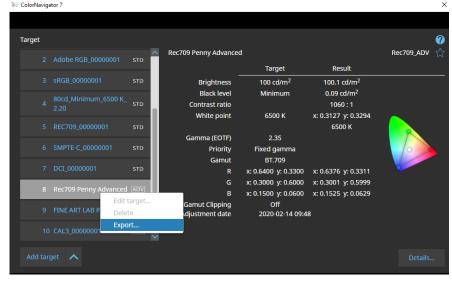
Once you have downloaded and installed ColorNavigator 7, you can export/import a target by following the instructions below.

Download ColorNavigator 7 here: <u>https://www.eizoglobal.com/support/db/products/software/CG2730#tab02</u>)

1) Launch CN7 and select 'Target management' from the drop-down menu under 'Monitor Settings'.



2) Exporting: Right click on the target you would like to export.



#### 3) Importing: Select 'Add target', then 'import'

Target			Print Proofing			<b>0</b>
	Print Proofing			Target	Result	
In	use		 Brightness	120 cd/m <sup>2</sup>		
		STD	Black level	Minimum		
	BT.2020_0000001	STD	Contrast ratio White point	5000 K		<u> </u>
	01-2020_0000001	. 310	Gamma (EOTF)	2.20		
	BT.709_0000001	STD	Priority	Gray balance		
	DCI_0000001	STD	Gamut	Native		
		310	R			
	PQ_DCI_00000001	STD	в			
	PQ_BT.2100_00000001	STD	Gamut Clipping	off		
Import		STD				
Create	a new target oooooa	rm 🔛				
	get 🔨					

4) Select the target you wish to import from your files

ColorNavigator 7 🖌 Open → • ↑ 🔲 > This PC > Desktop > 4 Organize 🔻 New folder (? Name Date Typ ^ This PC PROMINENCE RELEASE 28/02/2020 9:36 AM 3D Objects EIZO CGX Editing Monitors 1920x500px site banner 0... 17/02/2020 12:54 PM 📃 Desktop ZOHO TRAINING DOCS 12/02/2020 4:26 PM File Documents RadiForce\_RX1270 17/01/2020 2:29 PM File 🕹 Downloads SCREEN RECORDINGS 23/12/2019 9:57 AM Music No previev available. Monitor Test Files 14/12/2019 9:13 AM File Pictures BUTTER IMAGES 2019 10/10/2019 3:46 PM File Videos Reality Queen! (2019) [WEBRip] [720p] [YTS.LT] 10/10/2019 2:54 PM File 늘 OS (C:) C BT.709.cn7target 11/03/2020 6:53 PM CN 🙀 Arcadia (\\WDM 14/02/2020 9:55 AM ced.cn7target USBSTORAGE (\\ a senuà 10/10/2019 3:17 PM Shi v 🔊 Google Drive File name: BT.709.cn7target Calibration target files (\*.cntarg  $\sim$ Cancel Open

5) The target will be added to the target management window. Close this window.

Targe	21					0
	BT.709_00000001	STD n	BT.709_0000001			☆
	Print Proofing	ADV	Brightness	100 cd/m <sup>2</sup>		
	Philt Probling		White point	D65		
	In use	- H	Gamma (EOTF)	2.40		
			Gamut	BT.709 Off		
		STD	Gamut Clipping	UII	a contraction of the second	
	2 BT.2020_00000001	STD	Adjustment date	2020-02-18 10:00		
	3 BT.709_00000001	STD				
	4 DCI_00000001	STD				
	5 PQ_DCI_0000001	STD				
	6 PQ_BT.2100_00000001	STD				
		<sub>сто</sub> ∨				
Ade	d target 🔥					Details

6) Select a colour mode tab that you don't use, e.g. sRGB, then select the imported target from the drop down box to the right.

×

The name of the colour mode should change to the imported target E.g. sRBG  $\rightarrow$  BT.709

### Calibrate your target.

es Colorivavigator /					^
ColorEdge CO	G279X(236830	069)			Q
Monitor settings	🗸 Tools 🗸	Preferences			
Color mode					
User	STD	BT.709_0000000	1		<b>2.</b> 🗸 🖓
BT.2020	STD	Brightne: White poir			
<b>1.</b> <sup>BT.709</sup>	STD	Gamma (EOT	F) 2.40		
DCI	STD	Gamı Gamut Clippin			
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PQ_BT.2100	STD	Adjustment dat		is used for 186 hour(s),	adjustment will be
HLG_BT.2100	STD		executed.		
Adobe RGB	STD				
sRGB	STD				
CAL	ADV	<b>3.</b> Calibrate	Manual adjustment 🖍	•	







### **CHAPTER FOUR**

# Frequently Asked Questions



## 4. Frequently Asked Questions

#### Q. Does the power ON/OFF operation shorten backlight life?

A. No, as long as the power ON/OFF operation does not exceed about 25 times per day, it does not affect backlight life.

Q. My monitor is set to ISO 3664 for general editing and then I switch it to ISO 12646 when I am ready to print. When I switch to the ISO 12646 it then looks different because of the shift in white point. Does that mean I should then make the changes to the image? Or would you normally use 12646 profile to start with, if the image is to be printed?

A. ISO 12646 is the basis of your print profile. Yes, you're right. You will see a difference when you switch between the two profiles. The aim is to edit in ISO 3664 to make all of your main adjustments and manipulations in whatever program you chose to use. Once you're ready to print (if this is your final step and intention for your work), switch profiles to ISO 12646, however you may have to make further changes based on the paper you chose to use. The reason why ISO 12646 is your universal standard for print proofing is based on standard paper stock (including luster and matt paper). Within this profile, you can refine your profile based on colour matching your screen to match the paper.

Q. I have my Mac connected to my EIZO and sometimes it looks like the quality of the screen isn't sharp or lacking saturation. This is always the case, it seems like it happens when I'm in Photoshop or sometimes it does it on its own!

A. Ensure that the EIZO monitor is set as the primary monitor (go to system preferences, displays, arrangement, and drag the white bar over to the EIZO monitor icon (if it isn't there already). Do this before you open your Adobe software.

	Display Arrangement	Color
	s, drag them to the desired position. r, drag it to a different display.	
Dra	ag this white bar acr	oss to the Eizo
		_
-0		
Mirror Displays		
	vices Detected	



#### Q. How often should I calibrate my monitor?

A. We recommend every 100 hours, or once a month.

Keep an eye on your environment and surroundings. If you decide to move your monitor or desk to another room with different lighting conditions, we recommend you recalibrate. A brighter room requires a higher brightness number, and vice versa. Dark room - 80cd/m2; Brighter room up to 120cd/m2.

#### Q. Can I calibrate my monitor without purchasing expensive equipment?

A. The CG models in the ColorEdge range are self-calibrating, so there is no need for a third party sensor. However, if you are using a CS model or an older EIZO without the self-calibration, you can invest in a calibration device that range from few hundred dollars to over a thousand dollars. You can view the list of compatible sensors on our website.

## Q. In some applications, tone characteristics and the colour of the image are not displayed correctly causing low tones to appear lost.

A. This may be solved by changing the profile policy of ColorNavigator or the application's settings.

#### - If the application has Rendering Intent settings (e.g.: Photoshop)

Choose 'Perceptual' or 'Relative' and uncheck 'Black Point Compensation' in the pull-down menu under Rendering Intent.

## - If the application does not have Rendering Intent settings (e.g. Preview (Mac), Phocus (Hasselblad))

Uncheck 'Reflect black level in tone curve' in ColorNavigator's profile policy setting menu.

#### Q. I edit photos in AdobeRGB & then change profile to sRGB before sending. Should the monitor be calibrated to sRGB or AdobeRGB?

A. If you're shooting in Adobe RGB and setting your Image Quality to RAW, you will want to maintain that consistency through to your monitor too. You can make your final changes such as file type, size, colour gamut in your final output, however, this is also entirely up to you. If you decide to calibrate your monitor to sRGB, keep in mind that you will not have as many bright colours available to you as you would in Adobe RGB.



## **Additional Resources**

For more information about monitor calibration or colour management, check out the following links -

Dr Les Walklings Website (including ColorNavigator 6 how-to videos)

EIZO Global colour management resources

EIZO APAC blog



Follow us on social media @EIZO\_APAC for the latest updates and exciting offers

