

EIZO News 2022





2022 – News:

- 1) Video Products Overview***
- 2) Grading „Prominence“ display – CG3146***
- 3) Calibration software – CN7&CNN***

ColorEdge monitors:
PRODUCT OVERVIEW



Naming Rule & portfolio

Size

CS



CS2731



CS2420



CS2410

16-bit LUT,
DUE

Standard CG



CG2730



CG2420

IC-Sensor
True Black

Premium CG



3D-LUT & Video
Preset modes, **HDR**

PROMINENCE



CG319X (4K-DCI HDR)

CG3146 (4K-DCI HDR)

Reference Display

CG279X (2K-HDR)

CG2700S (2K-HDR)

CG2700X (4K-HDR)

MP in 5/2022

CG247X (FHD-HDR)

Double Layer LCD
24-bit LUT

Feature rich

DOLBY
VISION

NEW

Nové VIDEO modely/2022:

Dive Straight into Your Creativity
New Generation Monitors
for the HDR Editing Workflow



ColorEdge CG2700X

4K UHD (3840 × 2160)



ColorEdge CG2700S

2K WQHD (2560 × 1440)

HDR

4K Ultra HD

USB Type-C

LAN Port

Built-In
Calibration

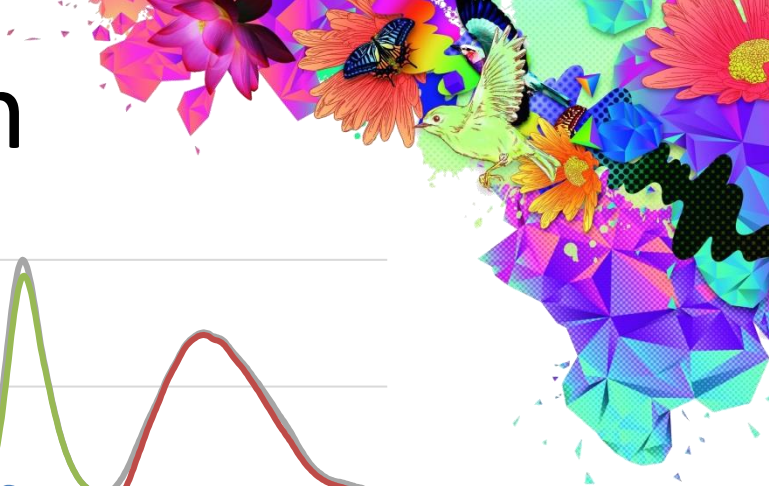
Wide
Color Gamut

Special Page >

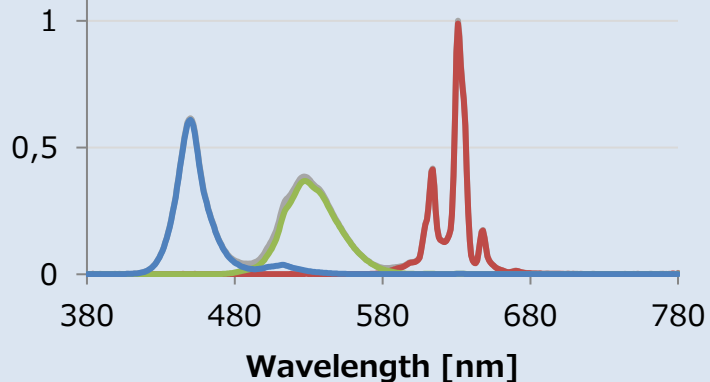
Nové VIDEO modely/2022:

- **27"- 2K (QHD) (2560x1440/16:9)**
 - Replacement CG2730/CG279X - - > **CG2700S**
- **27"- 4K (UHD) (3840x2160/16:9)**
 - New model **CG2700X**
- **New features:**
 - **USB-C** with PD 92W (DP 1.2, HDMI 2.0 remains)
 - **RJ-45** for LAN connection
 - Displaying **bit depth** 8bit/10bit/12bit
 - **HDR** – standard (STD) presets video mode BT.2100 (HLG&PQ)
 - Higher brightness (450-500 cd/m2) & contrast (1.450 – 1.600) for **HDR**

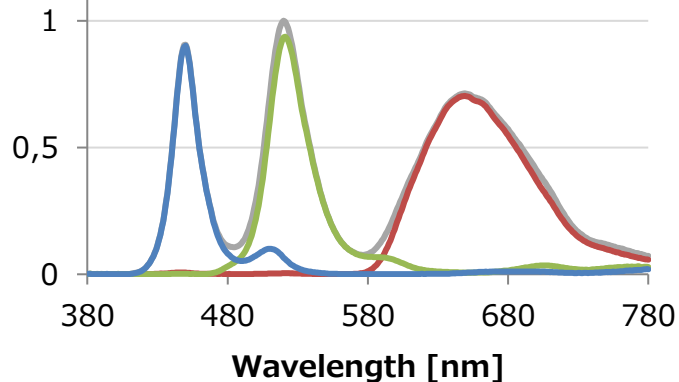
Backlight Spectrum



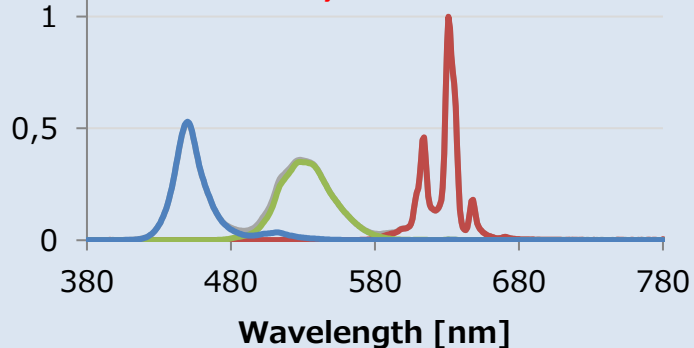
CG2700S/X



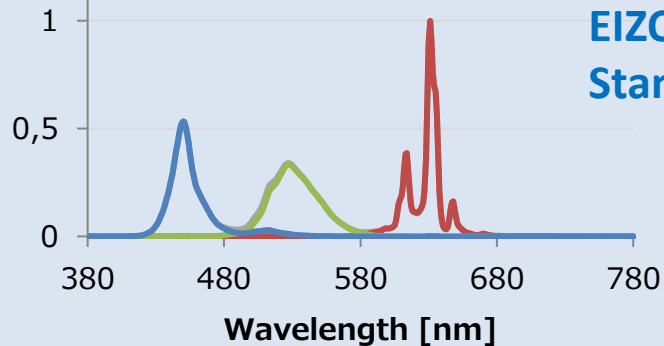
CG277



CG319X-4K, CG318-4K

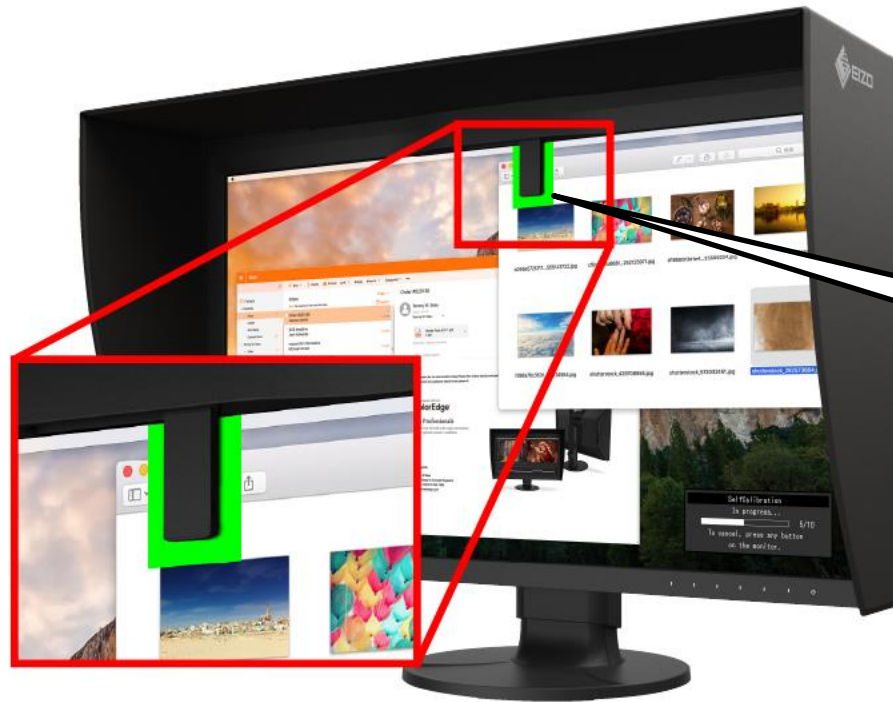


CG247X



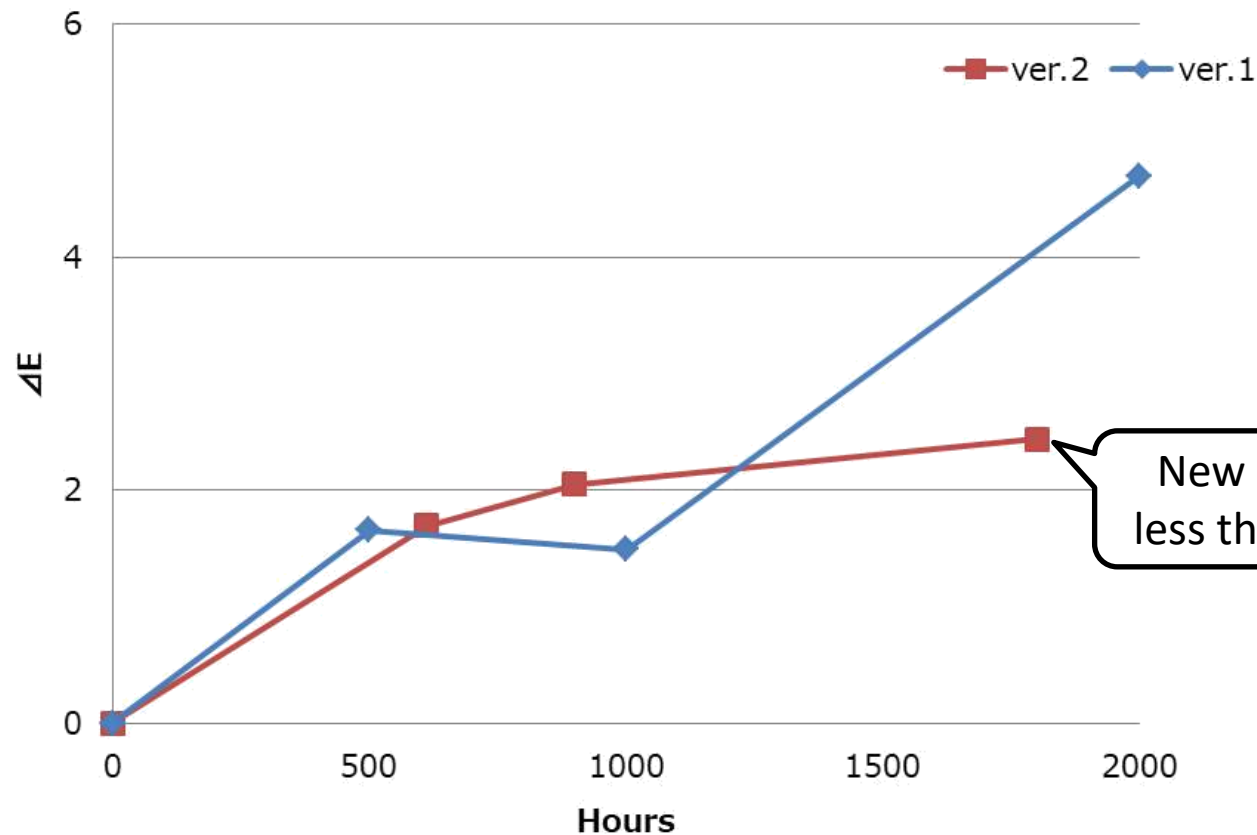
**EIZO ColorEdge
Standard Spectrum**

IC-Sensor deterioration tendency



New ICS deteriorate
less than previous one

IC-Sensor deterioration tendency



New ICS deteriorate less than previous one

CG2700S/X

- **HARDWARE**

- New LCD Panel (450-500 nit, 1450-1.600 CR)
- New build-in sensor (ver 2.0)
- HDMI-10-bit, 12-bit RGB/YCbCr 4:4:4 (FHD)
- **USB-C**/DP-10-bit RGB/YCbCr 4:4:4 (FHD)
- **RJ-45** - - > TCP/IP for easy internet LAN connection
- DCI-X'Y'Z'
- **Fanless**

- **SOFTWARE**

- HDR gamma (PQ, HLG) supported – **ITU-R S2100**
- Brightness warranty: **SMPTE ST.2084**
5yrs 10k hrs 5000K-6500K
@ 120cd/m2 regardless users settings



Same sensor
as CG319X



Same design concept
as CG279X

CG2700S/X



HDR Series

COLOREDGE PROMINENCE



ColorEdge[®] PROMINENCE

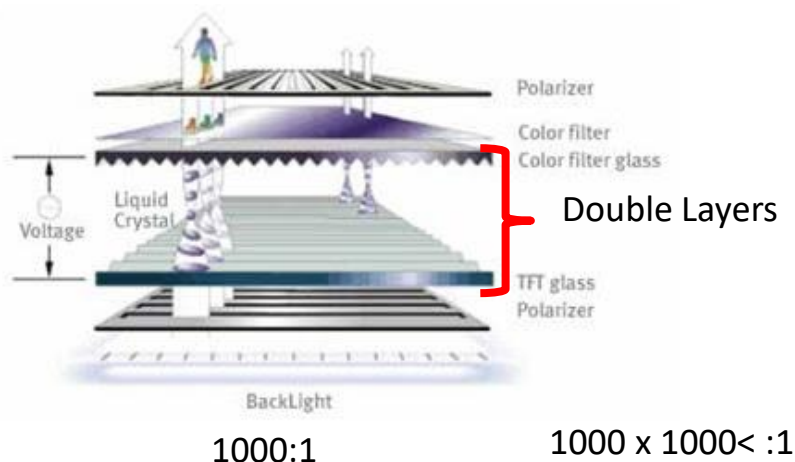


The HDR color grading monitor capable of showing images with extremely high contrast without overheating the display.



CG3146, New Generation LCD

- The world's first new generation LCD panel adopted.



Conventional

CG3146

Integrated calibration
sensor included !!!

Item	Spec
Format	31.1", 4096 x 2160
Brightness	1000cd/m2
Contrast	1,000,000 :1
Gamut	DCI-P3 98%, BT.2020 80%
LUT	24bit
Interface	DP 1.2 x 2, HDMI 2.0 x 2 12G-SDI, 4x 3G-SDI (2SI-4K)
Standards	ITU-R S2100-2 (PQ, HLG) for HDR REC1886-for SDR

CG3146 - Certifications

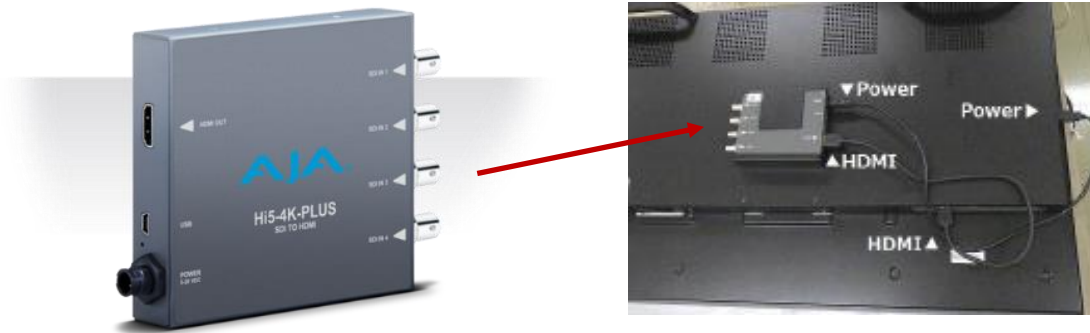
1. After evaluation of CG3146 at Dolby Laboratories in the US and their intensive testing the CG3146 had been qualified as a
 - **Dolby Vision mastering monitor:**
 - minimum peak brightness of **1.000 cd/m²**
 - minimum contrast ratio of **200.000:1**
 - set for **P3** or **Rec.2020** color gamut
 - **PQ** log-characteristic in accordance with SMPTE ST.2084
2. EIZO has become the first manufacturer of HDR monitors measured by **IRT** (Institut für Rundfunktechnik) German Broadcast Technology Institute
 - Subjects of measurements: **BT.2100 HLG**, **BT.2100 PQ**, **BT.2020 SDR**
 - Classification according to the requirements of **EBU Tech 3320 v4.0**



Compatible signal converter

- AJA convertor powered by display directly !

Manufacturer	Product name	Output	Evaluation plan	Price
AJA	Hi5-4K-Plus [4x 3G-SDI-->HDMI]	HDMI 2.0 x1	Already done	\$ 500



USB-power – 5V/**2.6A**
(for 4K signal)

Compatible signal converter

- BlackMagic convertor:

Manufacture	Product name	Output	Evaluation plan	Price
BlackMagic	Teranex Mini SDI [4x 3G-SDI (2SI)-->DP]	DP 1.2 x1	Already done	\$ 1.300



Compatible signal converter

- BlackMagic convertor:

Manufacture	Product name	Output	Evaluation plan	Price
BlackMagic	Teranex Mini SDI [4x 3G-SDI (2SI)-->HDMI]	HDMI 2.0 x4	Already done	\$ 1.300



Compatible graphic cards with DP outputs for EIZO CG and DaVinci Resolve editor

- nVidia cards in studios, where the PC is near to the display

Manufacture	Product name	Outputs	Codec	Color depth	Price
nVidia	P2000	DP 1.4 HDCP 2.2	HDR-HEVC	10-bit	\$1.000
nVidia	RTX6000	DP 1.4 HDCP 2.2	HDR-HEVC	10-bit	\$5.000



Compatible DCI-4K Video Signal Format

	SDI	HDMI	DP
24/30P	3G SDI x 4	HDMI 1.4	
	4:4:4 10bit	4:4:4 8bit 4:2:2 10bit	
50/60P	3G SDI x 4	HDMI 2.0	DP 1.2
	4:2:2 10bit	4:4:4 8bit 4:2:2 10bit 4:2:0 8/10bit	4:4:4 10bit

CG3146&CG319X&CG2700X

CG318

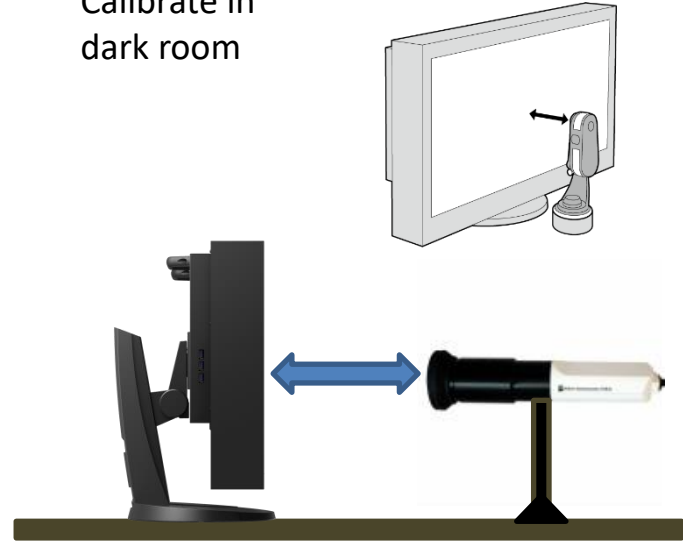
The diagram illustrates the compatibility of DCI-4K video signal formats across different interfaces. It is organized into a table with two rows for frame rates (24/30P and 50/60P) and four columns for interfaces (SDI, HDMI, and DP). The SDI column consistently lists '3G SDI x 4' and '4:4:4 10bit' for 24/30P, and '3G SDI x 4' and '4:2:2 10bit' for 50/60P. The HDMI column shows 'HDMI 1.4' for 24/30P with '4:4:4 8bit' and '4:2:2 10bit' color formats, and 'HDMI 2.0' for 50/60P with '4:4:4 8bit', '4:2:2 10bit', and '4:2:0 8/10bit' color formats. The DP column shows 'DP 1.2' for 50/60P with '4:4:4 10bit' color format. A green box highlights the HDMI 1.4 and DP 1.2 sections, with an arrow pointing to 'CG318'. A red box highlights the HDMI 2.0 section, with an arrow pointing to 'CG3146&CG319X&CG2700X'.

Supported sensor

- ColorNavigator 7 (2021) runs CG3146
 - CG3146 **includes Build in Sensor**
 - Calibrate **in distance is necessary!**

Manufacturers	Supported probes
X-rite	i1 Pro2
Klein	K-10
Konica Minolta	CA-410, CS-200, CS-2000
Photo Research	PR-655, PR-680
Colorimetry Research	CR-300, CR-250, CR-100
JETI	Specbos1211, Spectralval 1501

Calibrate in
dark room



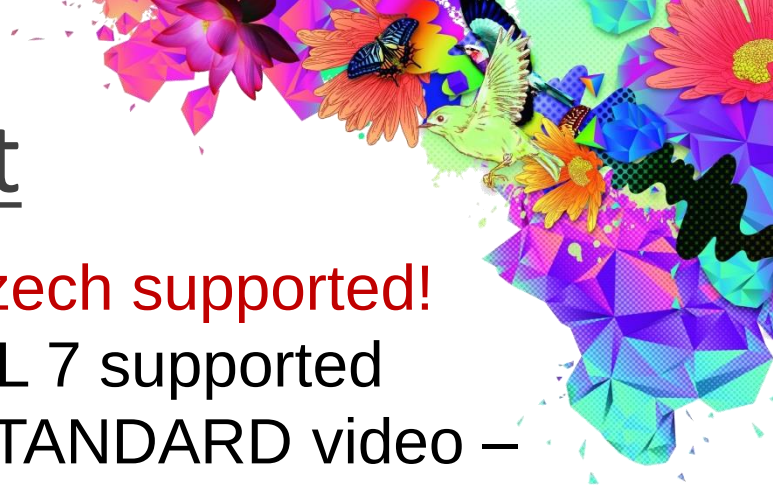
CALIBRATION SOFTWARE

CN7 & CNN



CN7 – Software Concept

- Multiple language support – **Czech supported!**
- Win10, MacOSX Mojave, RHEL 7 supported
- Calibration of all pre-defined STANDARD video – modes at once
- Remote calibration support
- Changing the basic parameters without calibration
- Professional calibration sensors supported!
- ICC-profiles included inside of the display
(Selecting video mode creates and sets the monitor ICC profile—AUTOMATICALLY)





CNN - Color Navigator Network

Statistic:

- **4.600** connected monitors
- Europe (DE, S, IT, F): 1.150 pcs
- UK: 800 pcs
- USA: 1.500 pcs
- Japan: 1.000 pcs
- Others (ES, AT, PL, CZ ...): 150 pcs

How it works:

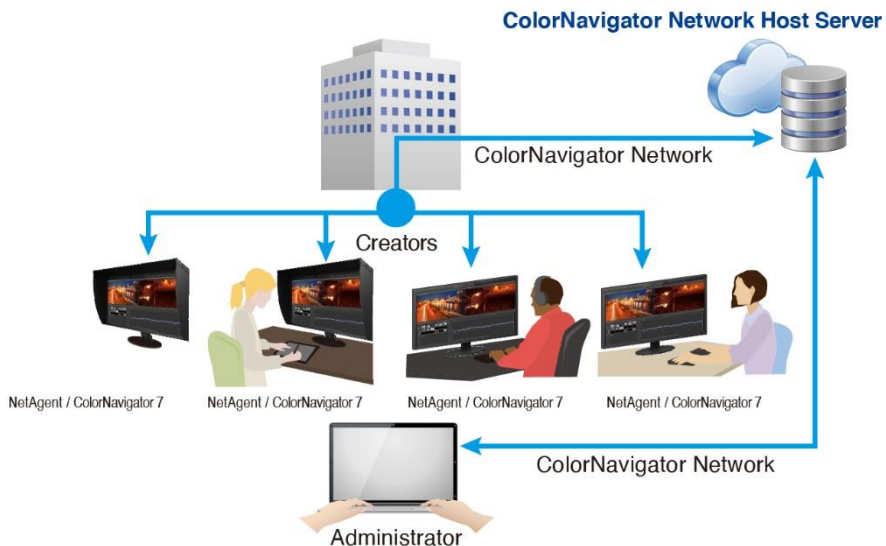
- Local EIZO creates Login credential for EIZO cloud server
- CNN: web app for Admins
- CN7 or NetAgent: client apps
- Gateway: apps for PC with internet connection
(if client apps are installed on PC without internet access)
- Automatic recalibration (CG models) supported
- Assets management
- CS models (without IS) also supported

- CNN can communicate unidirectional only- - > no commands could be sent to the local PCs (monitors)!
- Local PCs (monitors) are reading, what to do every 1-3 minutes AUTOMATICALLY by ourself
- Admins can not change the display parameters, if the communication had been forbidden locally



Color Navigator Network

- Software **ColorNavigator7 & NetAgent** as client application and **ColorNavigator Network** as admin-application on secure EIZO host server (new **Gateway app** - - > for client PC **without internet** access)



What could be administrated?

- Settings of video modes
- Scheduling auto-recalibrations
- Activation of „Key-lock“
- Import/Export of monitor settings
- List of remotely controlled displays

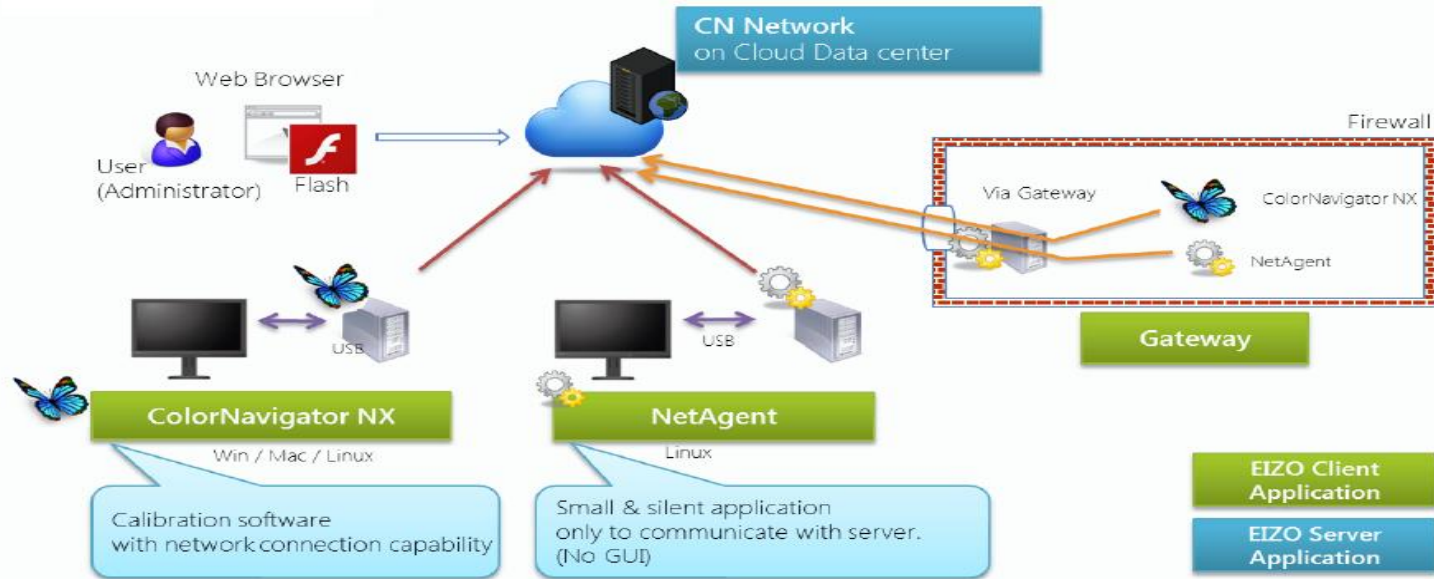
Advantage:

- Simple calibration anytime & anywhere
- **Parallel calibration** of all selected displays
- Time savings



Color Navigator Network

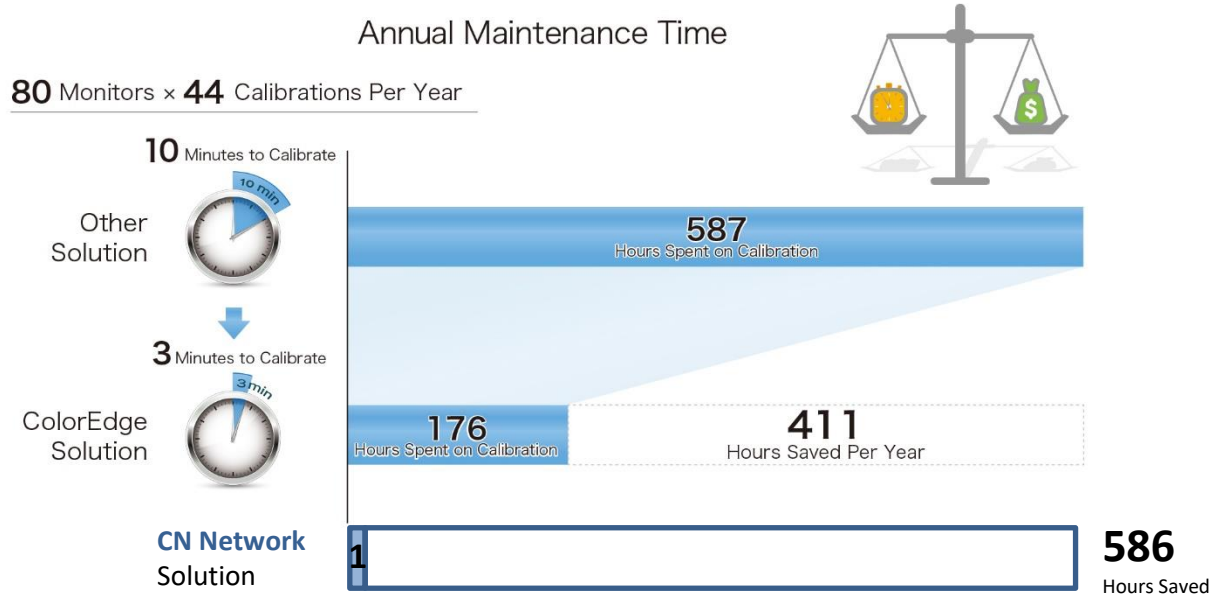
- Improved SECURITY (very important) via new Gateway application for client PC **without internet** access)





Color Navigator Network

- Time saving technology - - > **parallel calibration**





Color Navigator Network

● Downloading connection code from CNN

cnnw1.eizo.com/ColorNavigator/ColorNavigatorConsole.html?timemills=1652940932670&ver=1...

ColorNavigator Network version 1.1.7.11

[Terms of service](#) [Log-in user settings](#) [Log out](#)

Monitor management | Group/User management

- ▶ Austria - EAT
- ▶ Brazil - DDD
- ▶ China - STI
- ▶ **Czech Republic - ECZ**
- ▶ India - RSG
- ▶ Iran - MEE
- ▶ Israel - KRT
- ▶ Korea - CGK
- ▶ Lebanon - GMH
- ▶ Singapore - ACI
- ▶ Taiwan - GIC
- ▶ Thailand - SYT
- ▶ Turkey - ODK
- ▶ U.A.E - IDN

Group name * Czech Republic - ECZ

Information

Belong to GLOBAL

Group ID 241

Connection code 063129f9dd2af5a4214b4eb64d896a9dbc3578a4

Query interval 3 minutes

Download connection file **Save**

Add group



Color Navigator Network

● Importing connection code to CN7

The screenshot displays the ColorNavigator 7 application window. On the left is a sidebar with navigation options: 'Obecná nastavení', 'Jazyk', 'Referenční cíl pro ověření přesnosti barevné reprodukce', 'Síťová komunikace ColorNavigator Network' (which is selected), and 'O programu ColorNavigator 7'. Below these are buttons for 'Importovat nastavení CN...' and 'Exportovat nastavení CN...'. The main area shows the 'Síťová komunikace' settings. It includes instructions in Czech about connecting to the ColorNavigator Network and a checkbox 'Povolit síťové připojení s ColorNavigátorem' which is checked. Below this are fields for 'Adresa serveru', 'Kód připojení', and 'Skupina'. The 'Kód připojení' field contains the value '7cd1ca42e1bee1b01b832e9ff365559681aa5a8f' and is highlighted with a red rectangle. The 'Skupina' field contains 'ECZ_Showroom'. At the bottom of this window are 'Import...' and 'Vymazat' buttons, with 'Import...' also highlighted by a red rectangle. A smaller, semi-transparent version of this settings window is overlaid on top of the main one, showing the same information.

ColorNavigator 7

Obecná nastavení

Jazyk

Referenční cíl pro ověření přesnosti barevné reprodukce

Síťová komunikace ColorNavigator Network

O programu ColorNavigator 7

Importovat nastavení CN...

Exportovat nastavení CN...

Zadejte informace pro připojení k síti ColorNavigator Network.
Po úspěšném nastavení povolte Agentovi programu ColorNavigator 7 vzdálenou správu monitoru prostřednictvím sítě ColorNavigator Network.

☒ Povolit síťové připojení s ColorNavigátorem

Informace o "klíčovacím" souboru umožňující klientské připojení monitoru k serveru prostřednictvím sítě ColorNavigator Network

Adresa serveru -

Kód připojení -

Skupina -

ColorNavigator 7

Informace o "klíčovacím" souboru umožňující klientské připojení monitoru k serveru prostřednictvím sítě ColorNavigator Network

Adresa serveru <https://cnnw1.eizo.com/ColorNavigator/Server>

Kód připojení 7cd1ca42e1bee1b01b832e9ff365559681aa5a8f

Skupina ECZ_Showroom

Import... Vymazat



Monitor management by CNN

cnmw1.eizo.com/ColorNavigator/ColorNavigatorConsole.html?time=1652945794697&ver=1.1.7.11

ColorNavigator Network version 1.1.7.11

Terms of service Log-in user settings Log out

Monitor management Group/User management

Display monitor(s) for subordinate group(s)

Filter

Remote command: Monitor configuration

	Group	Computer	Model	S/N	Time since adjustment	Adjustment date	Monitor configuration	Monitor detection date	Upload date	Command
☒	ECZ_Showroom	ECZ002A	CG245W	20261040	0	2022-05-19 09:44		2022-05-19 08:53	2022-05-19 08:51	Succeeded

Download connection file

Monitor configuration Request to upload Remove

Currently showing items 1 to 1 of 1 items

Monitor information Color Mode Remote command

Basic

Model CG245W

S/N 20261040

Firmware 10005-00000-00115

Usage time 14993

Key lock Off

DUE Priority -

Range extension -

Software ColorNavigator 7.1.7.9

OS Microsoft Windows 10 Pro

Asset information

Asset number 20220518

Location 1 Praha-Karlín

Location 2

User A. Charvát

Custom 1 Infos

Custom 2

Custom 3

Custom 4

Asset information

SelfCalibration settings

Enable SelfCalibration On

Frequency Usage time

Every 200 hours

Do not execute SelfCalibration while the monitor is in use On

Standard Mode calibration On

Built-in sensor

Reference sensor None

Reference sensor S/N

Correlation date



Close

THANK YOU

- for Your attention and
- for Your confidence in
our displays

Prominence users: Czech Filharmony, Czech TV, Film Academy ...

