Canon



Easy Operation Guide

Application (CCMA)

Canon Europe Ltd.

Matching

Canon Colour

System overview



Required Hardware

<u>CR-N700</u>



Windows PC



The ways of image capture of SDI/HDMI VIDEO to PC

[1] SDI-> USB capture device



[2] SDI-> Recorder/Monitor to capture SDI image



Colour Chart



Configuration Example



(CUS031 installed)

Equipment Spec

Туре	Source camera	Reference camera	Video capture device	Color chart
Equipment	Image: Constrained state in the second state st	Any manufacturer or model, provided the following requirements are met		
Requirements	 LUT can be saved with XC protocol 	 Gamut: Conforms to BT.709 or HDR Output: 2K or higher 	 SDI or HDMI input Capable of output to PC 	 Grid type 2 to 15 colors per side
Remarks	-	-	Models for which connection with the CR-N700 has been checked : BMD: UltraStudio Recorder 3G (2K support) BMD: UltraStudio 4K Mini (4K support)	-

Application Spec

Function		Specs				
Color chart extraction		Automatic, manual				
Selected points settings		Up to three points				
Supported still image formats		BMP, TIF, PNG, JPG				
Supported OS		Windows 11, Windows 10 64-bit				
Languagaa	Application UI	Japanese/English				
Languages	User Manual	Japanese/English/Chinese (simplified)/French/German/Italian/Spanish				

Set camera & chart

Set camera & chart

Take Stills

Matching

[Chart & Camera position]

- 1. Put a Colour chart in target lighting condition.
- 2. Put the Reference Camera and CR-N700 in front of the Colour chart.

[Reference Camera Setting]

1. Adjust the camera's exposure, white balance appropriately according to the target lighting.

[CR-N700 Setting]

- 1. Select "unlocked" CP (recommend to use User CPs).
- 2. Select manual in shooting mode (exposure), set the exposure value close to the reference camera.
- 3. Select manual white balance, select the similar value to the white balance of reference camera.





Exposure setting

Setting Page for IP Streaming Came $ imes$	+					– o >
$\leftarrow \ \rightarrow \ \mathbf{G}$	🔿 指 🕂 192.168.100.1/pages/exposure					☆
CR-N700 •						▲ (7 U) =
> 🔀 Exposure	e 🚳 WB	S Focus	CP Custom Picture	PTZ/IS	🖿 Preset	••• Other Functions
Shooting Mode F.Auto M ND Filter Off Infrared Shooting (IF Select "M) On lanual"	Iris (Aperture Value) 3.2 11.0 Shutter Mode Speed (sec.) 750 Select other than A	Auto - + 5.2 Gain (dB) -5.0 Uncheck "Auto	- + 0.0 21.0 Unche	High Sensitivity Mode Gain Boost	On On

White Balance setting



Custom Picture/Image detail setting

tting Page	for IP Streaming Came $ imes$	+							- a ×
: →	С	🔿 🗟 0- 192.168.100.	.1/pages/cp					☆	⊚ ⊻ ≡
CR-N70	C1: BT.709 Normal	[Protect]						±	@ ∪ ≡
	C2: BT.709 Wide DF	R [Protect]							
	C3: BT.709 Standard	[Protect]							
	C4: Canon Log 3 [P	rotect]							
	C5: PQ [Protect]								
	C6: HLG [Protect]								
	C7: EOS Standard [Protect]							
	C8: EOS Neutral [Pr	otectj							
	C9: User09								
	C10: User10								
	C11: User11								
	C12: User12								
	C13: User13								
	C14: User14				A DESCRIPTION OF THE		А Т		
	C16: Usor16		A		5				
	C17: User17		••						
	C18: User18		-		•				
>	C19: User19		👦 WB	S Focus	CP Custom Picture	◆ PTZ/IS	I Preset	••• Other Fun	ctions 🗸 🗸
<u>)</u>	C20: User20			Gamma/Color Space	Loc	ok File	On		
2	C9: User09	-	<u></u>	BT.709 Normal/BT.709	-				
ÉŹ				Color Matrix	Ori Wit	ginal: th Look File:			
≎	Reset		Edit	Video	-				
	CP File Name Up to 16 c	haracters	``				Delete Register		
	User09			Select unlocked CP.					
				Recommend to use	User CPs in ord	er not to affect pr	e-defined CPs.		

	<₽					
CR-N700 •					- 67	© ≡
\leftrightarrow C	🗘 👌 192.168.100.1/pages/cp			☆		⊠ ≡
) Setting Page for IP Streaming ${\subset}$ X	+					o ×

>	🔀 Exposure	🐼 WB	🛇 Focus	CP Custom Picture	◆ PTZ/IS	Dereset	••• Other Functions
6 6	CP File C9: User09		Gamma/Color Space BT.709 Normal/BT.709	Look File ColorMat	ching.cube	On	
¢	Reset CP File Name Up to 16 characters User09	Edit	Color Matrix Video	Original: I With Lool	BT.709 Normal/BT.709 k File: Conform to Custom Picture Delete	Register	

Delete Look File if it is already registerd.

Setting	ng Page for IP Streaming $\subset imes$	+						o ×
← -	→ C	🔿 🗟 192.168.100.1/pages/cp				☆		⊠ ≡
← -	⇒ C 1700 ●							© ≡
		¢+		•		T V		
>	🔀 Exposure	😵 WB	S Focus	CP Custom Picture	PTZ/IS	🖿 Preset ••• Ot	her Functions	\sim
	CD File		Commo/Color Space					

O	CP File		Gamma/Color Space		Look File	On	
0	C9: User09 🔻	бт	BT.709 Normal/BT.709	-	ColorMatching.cube		
	Reset	Edit	Color Matrix		Original: BT.709 Normal/BT.709 With Look File: Conform to Custom Picture	2	
¥	CP File Name. Up to 16 characters		Video	-	De	lete Register	
	User09	E	dit				

) Setting Page for IP Streaming \subset ×	+		-	٥	×
$\leftarrow \rightarrow $ C	⑦	☆		⊘	≡
CR-N700 ●			å é	0	



) Setting Page for IP Streaming \subset ×	+					<u>—9</u> 5	٥	×
$\leftarrow \rightarrow c$	🔿 👌 192.168.100.1/pages/cp			រ	5		⊘	≡
CR-N700 •					2	- GP	<u>ں</u>	



White Balance setting



Exposure adjustment

Reference Camera



<u>CR-N700</u>

Adjust the exposure value as close as the reference camera using ISO/Gain and Iris.

If your monitor have wave form monitor (WFM), it's useful to visualize the exposure value.

If you don't have WFM, adjust the exposure by naked eye. The colour matching still works.





Take Stills



Any method other than above example works. As long as still image can be captured.

Matching









Ē.

×



LUT Window



🔒 LUT Window





Canon

THANK YOU

Any Questions / Feedbacks?

Canon Europe SE Team (RemotePTZ.Support@canon-europe.com)