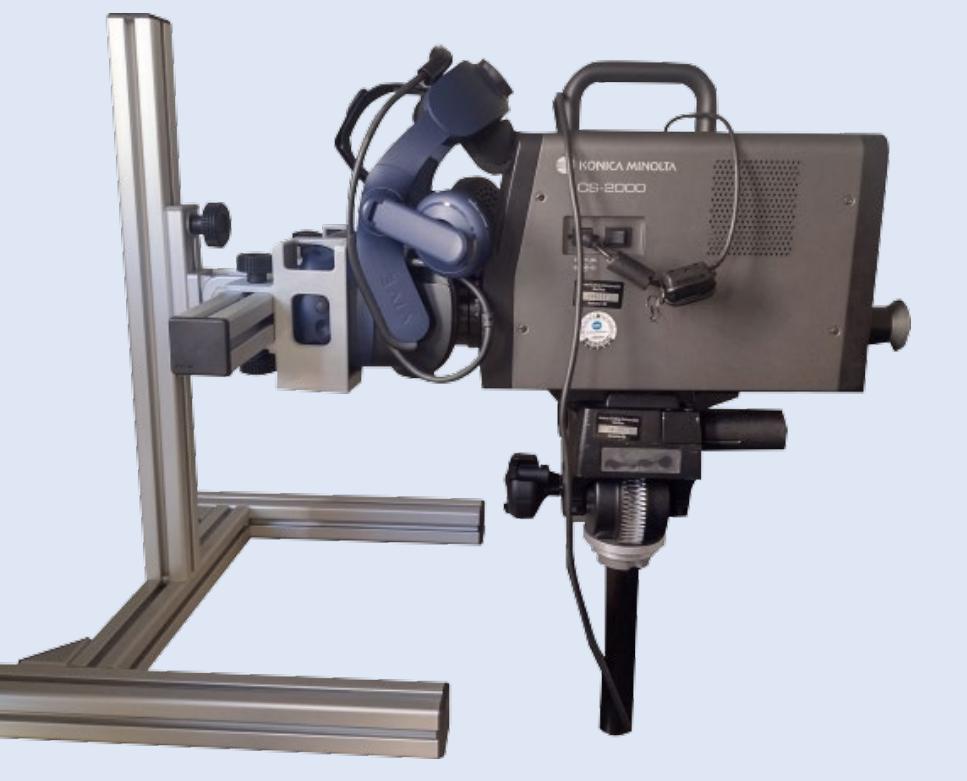
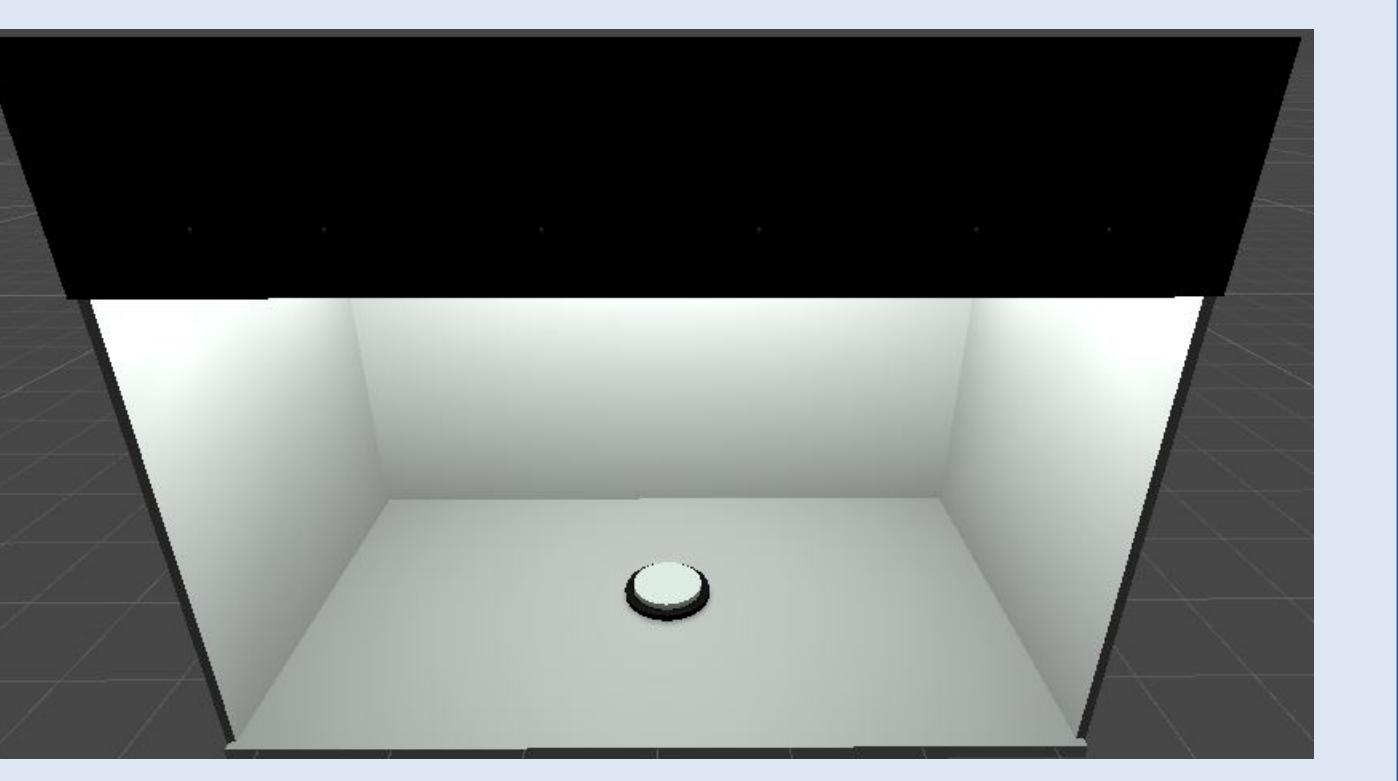
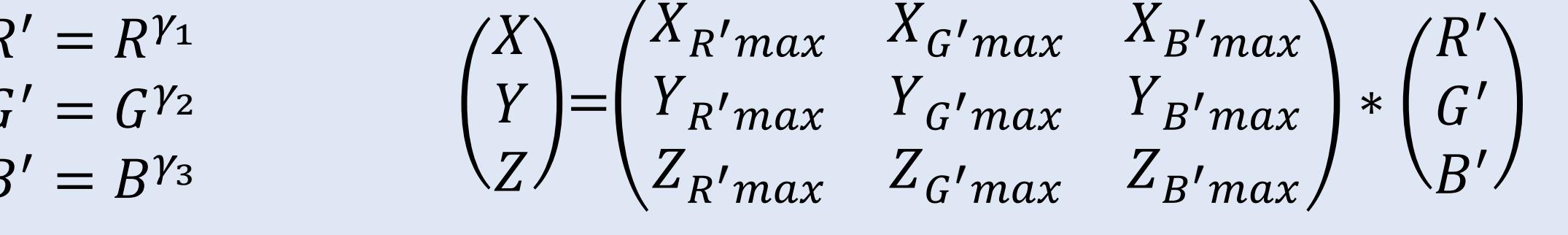
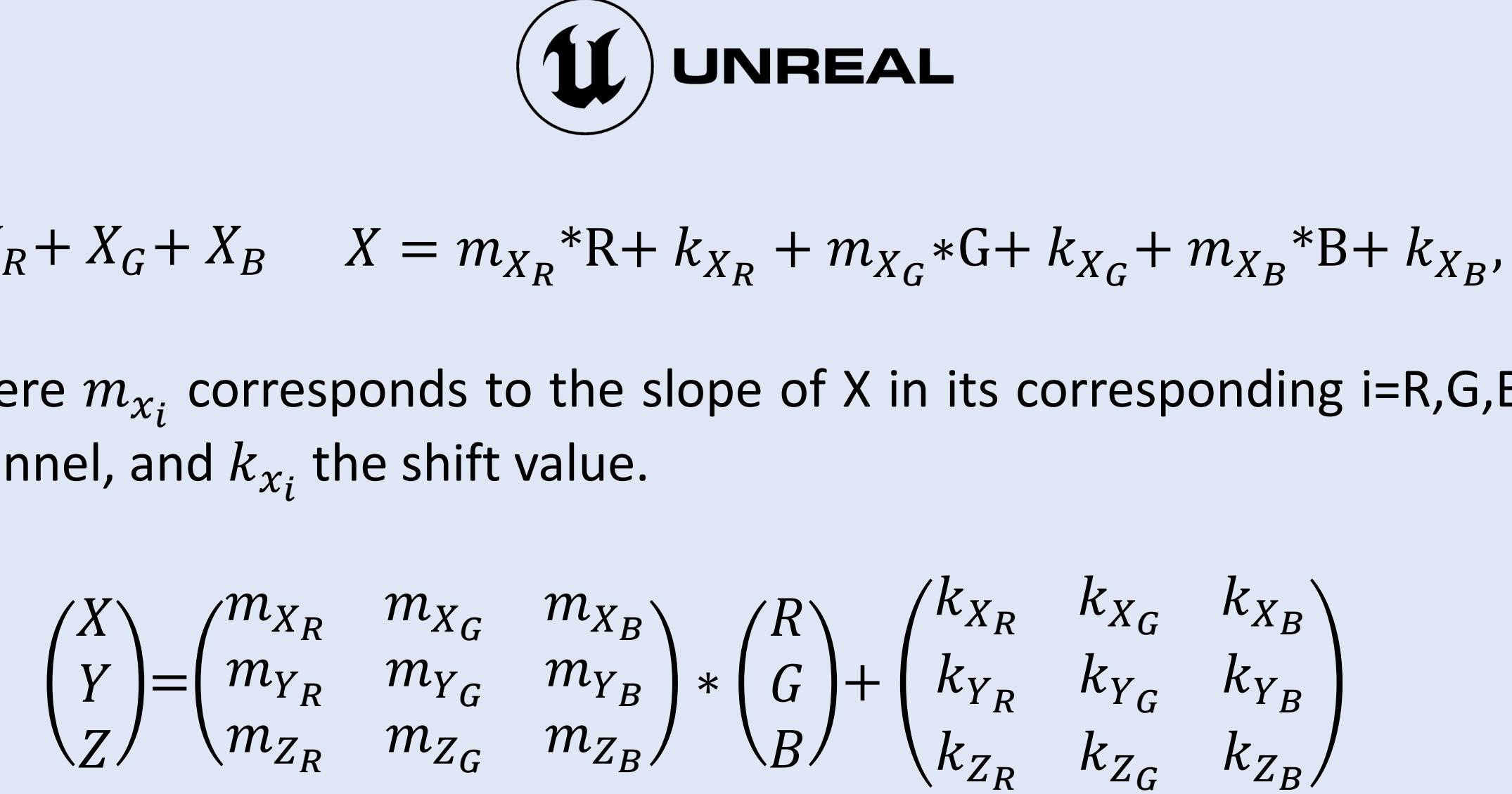
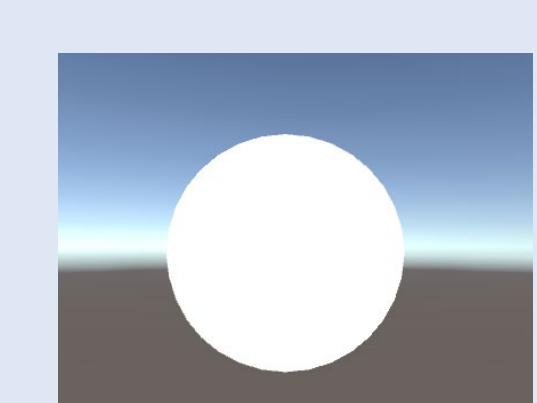
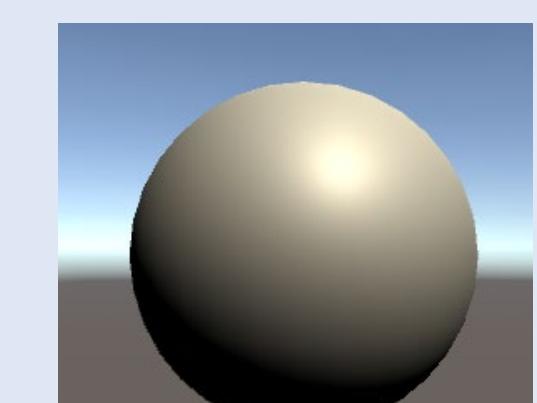
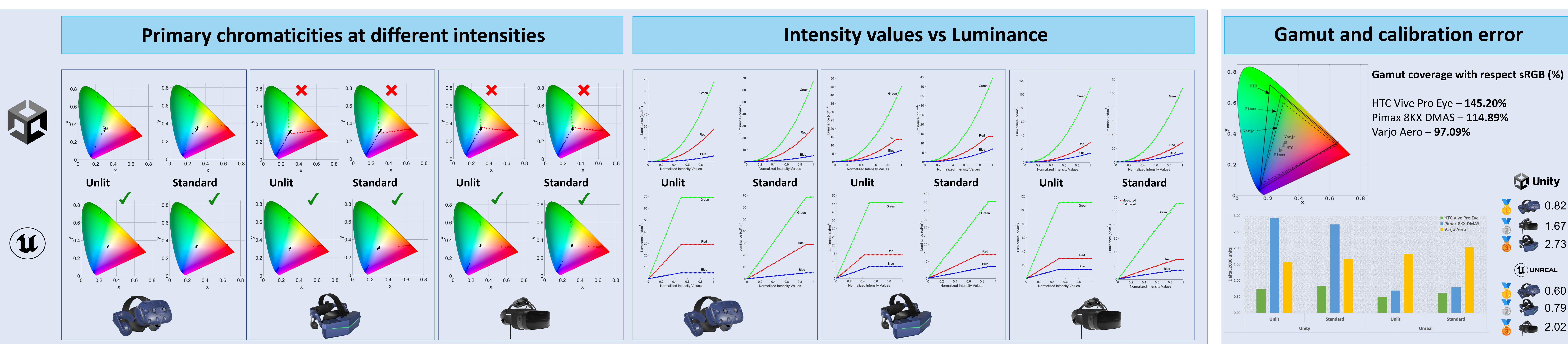


HMDs analysed			Graphics engines and materials		Measurement process		Calibration models	
			Unity	UNREAL	 Konica Minolta CS2000-A	 JUST Normlicht LED simulated in VR		Unity
HTC Vive Pro Eye	Pimax 8KX DMAS	Varjo Aero	We used Unity 2019 in a linear response and we disabled the use of HDR and any post-processing that the graphics engine may perform to the environment.	We used Unreal Engine 4.27.1 by disabling post-processing and tone mapping, resulting in a linear response for chromaticity and luminance values.				
Specs/HMDs	HTC Vive Pro Eye	Pimax 8KX DMAS	Varjo Aero	Unlit	Standard			
Released Date	2018	2018	2021		The fact that light does not influence the final color calculation gives us more control over the application of chromaticity to the different objects.			
Resolution	1140 x 1660	3840 x 2160	2880 x 2720		This shader facilitates a realistic appearance for rendering materials like stone, wood, and plastic. Standard shader takes the light calculation into consideration during rendering of a specific material. This increases the complexity of rendering a particular color faithfully.			
Display	AMOLED	CLPL	Mini LED					
Refresh Rate	90 Hz	90 Hz	90 Hz					
Lenses	Fresnel	Fresnel	Aspheric					
Field of View	110°	220°	121°					
Interpupillary distance	61-72 mm	60-72 mm	57-73 mm					

Results



Testing colors in Unreal Standard (best scenario)			Conclusions			References		
