

Data Range - Showing as 8 bit data range

This chart details the data range characteristics of various Canon cameras, showing their internal recording capabilities, and their external SDI and HDMI outputs. There is a variety of external equipment and software available to process and display this data. The data range settings for these products need to match the data range of the camera for correct operation. In some cases this is handled automatically, but not in all scenarios. It is highly recommended that all users confirm that their data range settings are set correctly to assure seamless workflow when displaying, grading and editing.

Camera	Format	Gamma	Internal Recording		SDI Out		HDMI Out	
			Signal	Metadata	Signal	Metadata	Signal	Metadata
EOS C700	XF-AVC	Canon Log / Log2 / Log3	Full Range	Full Range	Full Range	Full Range	Full Range ^{*1}	Video Range
		ACESproxy (LUT)	-	-			Full Range	Full Range
		ST2084 (LUT)	-	-	Video Range	Video Range	Video Range	Video Range
		Other	16-254 ^{*2}	Video Range			16-254 ^{*2}	
	ProRes (in Rec)	Canon Log / Log2 / Log3	YCCVideo Range	-	Full Range	Full Range	Full Range ^{*1}	Video Range
		ACESproxy (LUT)	-	-			Full Range	Full Range
		ST2084 (LUT)	-	-	Video Range	Video Range	Video Range	Video Range
		Other	16-254 ^{*2}	-			16-254 ^{*2}	
	ProRes (in Preview)	Canon Log / Log2 / Log3	-	-	Video Range	-	Video Range	Video Range
		Other	-	-	16-254 ^{*2}	-	16-254 ^{*2}	
	RAW	RAW	-	-	-	-	-	-
EOS C300 Mark II	XF-AVC YCC Intra	Canon Log / Log2 / Log3	Full Range	Full Range ^{*3}	Full Range	-	Full Range ^{*1}	Video Range
		ACESproxy (LUT)	-	-		-	Full Range	Full Range
		Other	16-254 ^{*2}	Video Range	16-254 ^{*2}	-	16-254 ^{*2}	Video Range
	XF-AVC YCC Long-GOP	Canon Log / Log2 / Log3	Full Range	Full Range ^{*3}	Full Range	-	Full Range ^{*1}	Full Range
		ACESproxy (LUT)	-	-		-	Full Range	
		Other	16-254 ^{*2}	Video Range	16-254 ^{*2}	-	16-254 ^{*2}	Video Range
	XF-AVC RGB Intra	Canon Log / Log2 / Log3	Full Range	Full Range ^{*3}	Full Range	-	Full Range ^{*1}	Full Range
		ACESproxy (LUT)	-	-		-	Full Range	
		Other	16-254 ^{*2}	Video Range	16-254 ^{*2}	-	16-254 ^{*2}	Video Range
	4K RAW	Canon Log 2	-	-	Full Range	-	-	-
EOS C300	MPEG-2	Canon Log	Full Range	-	Full Range	-	Full Range ^{*1}	Video Range
		Other	16-254 ^{*2}	-	16-254 ^{*2}	-	16-254 ^{*2}	
EOS C100 Mark II	AVCHD	Canon Log	Full Range	-	-	-	Full Range ^{*1}	Video Range
		Other	16-254 ^{*2}	-	-	-	16-254 ^{*2}	
	MP4	Canon Log	Full Range	Full Range	-	-	Full Range ^{*1}	
		Other	16-254 ^{*2}	Video Range	-	-	16-254 ^{*2}	
EOS C100	AVCHD	Canon Log	Full Range	-	-	-	Full Range ^{*1}	Video Range
		Other	16-254 ^{*2}	-	-	-	16-254 ^{*2}	
XC10	XF-AVC 3840x2160	Canon Log	Full Range	Full Range	-	-	Full Range ^{*1}	Video Range
		Other	16-254 ^{*2}	Video Range	-	-	16-254 ^{*2}	
	XF-AVC 1920x1080	Canon Log	Full Range	Full Range	-	-	Full Range ^{*1}	
		Other	16-254 ^{*2}	Video Range	-	-	16-254 ^{*2}	
XC10 / XC15	MP4	Canon Log	Full Range	Full Range	-	-	Full Range ^{*1}	Video Range
		Other	16-254 ^{*2}	Video Range	-	-	16-254 ^{*2}	

^{*1} When the outputting Canon Log 1, 2, 3 signal via HDMI, metadata says "Video Range".

^{*2} Mapping 0 of Full Range to 16 and 255 to 254.

^{*3} Since Firmware Version 1.0.6.100.

Canon Log 1, 2, 3 is Full range and the others are video range plus super white.

"Video Range" means 16 to 235 without super white.