

# Nikon Makernotes in Nikon Z9 with firmware v2.11/v3.00

2022-11-01

## Nikon HDRInfo Tags

Index1	Tag Name	Writable	Values / Notes
0	HDRInfoVersion	string[4]	
4	HDR	int8u	0 = Off 1 = On 48 = Auto
5	HDRLevel	int8u	0 = Auto 1 = 1 EV 2 = 2 EV 3 = 3 EV 255 = n/a
6	HDRSmoothing	int8u	0 = Off 1 = Normal 2 = Low 3 = High 48 = Auto 255 = n/a
7	HDRLevel2	int8u	0 = Auto 1 = 1 EV 2 = 2 EV 3 = 3 EV 255 = n/a

### Nikon Z9, v2.11, HDR Info (Makernote \$0035)

HDR Aus/Off	\$0035 Undefined (6)	30323030 00 00
HDR An/On, Normal/Norm	\$0035 Undefined (6)	30323030 01 02 (prob. 01?)
HDR An/On, Moderat/Low	\$0035 Undefined (6)	30323030 01 02
HDR An/On, Verstärkt/High	\$0035 Undefined (6)	30323030 01 03
HDR An/On, Extrastark/High+	\$0035 Undefined (6)	30323030 01 04
HDR An/On, Automatisch/Auto	\$0035 Undefined (6)	30323030 01 05

# Nikon VRInfo Tags

Index1	Tag Name	Writable	Values / Notes
0	VRInfoVersion	no	
4	VibrationReduction	int8u	0 = n/a 1 = On 2 = Off
6	VRMode	int8u	(Z Series cameras thru Decemeber 2021) 0 = Off 1 = Sport 3 = Normal 0 = Normal 1 = On (1) 2 = Active 3 = Sport

Nikon Z9, v2.11/v3.00, **VR Info (Makernote \$001F)**

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Objektiv ohne VR, nur IBIS in Kamera/Lens without VR, only IBIS in camera

IBIS Aus/Off                    \$001F Undefined (9)      30323030 02 00 00 00 02

IBIS An/On, **Normal**        \$001F Undefined (9)      30323030 01 00 **01** 00 02

IBIS An/On, **Sport**         \$001F Undefined (9)      30323030 01 00 **03** 00 02

**Sport and Normal seem to be swapped in your Z-definition above!**

Objektiv (F) mit VR, und IBIS in Kamera/Lens with VR and IBIS in camera

VR Aus/Off                    \$001F Undefined (9)      30323030 02 00 00 00 03

VR An/On, Normal            \$001F Undefined (9)      30323030 01 00 01 00 03

VR An/On, Sport             \$001F Undefined (9)      30323030 01 00 03 00 03

# Nikon MultiExposure Tags

Index4	Tag Name	Writable	Values / Notes
0	MultiExposureVersion	no	
1	MultiExposureMode	int32u	0 = Off 1 = Multiple Exposure 2 = Image Overlay 3 = HDR
2	MultiExposureShots	int32u	
3	MultiExposureAutoGain	int32u	0 = Off 1 = On

Nikon Z9, v2.11/v3.00, **Multi Exposure (Makernote \$00B0)**

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int32u with Little Endian encoding!

ME Off	\$00B0	Undefined (16)	30313033	00000000	00000000	00000000
ME On, No of pictures 2, Mode AVG	\$00B0	Undefined (16)	30313033	01000000	02000000	01000000
ME On, No of pictures 3, Mode AVG	\$00B0	Undefined (16)	30313033	01000000	03000000	01000000
ME On, No of pictures 2, Mode ADD	\$00B0	Undefined (16)	30313033	01000000	02000000	00000000
ME On, No of pictures 2, Mode LIGHT	\$00B0	Undefined (16)	30313033	01000000	02000000	02000000
ME On, No of pictures 2, Mode DARK	\$00B0	Undefined (16)	30313033	01000000	02000000	03000000

MultiExposureAutoGain/Index4=3 seems to be the Overlay Mode now, not gain anymore!

[https://onlinemanual.nikonimglib.com/z9/en/15\\_menu\\_guide\\_02\\_29.html](https://onlinemanual.nikonimglib.com/z9/en/15_menu_guide_02_29.html)

ME Off, HDR Off	\$00B0	Undefined (16)	30313033	00000000	00000000	00000000
ME Off, HDR On/Auto	\$00B0	Undefined (16)	30313033	03000000	02000000	00000000
ME Off, HDR On/Norm	\$00B0	Undefined (16)	30313033	03000000	02000000	00000000