	LLFF					DL3DV							Casual														
	Geometry Texture		All		Geometry		Texture		All		Geometry		Texture		All												
Feature	PSNR↑	SSIM↑	$LPIPS\!\!\downarrow$	PSNR↑	SSIM↑	LPIPS↓	PSNR↑	SSIM↑	$LPIPS\!\!\downarrow$	PSNR↑	SSIM↑	LPIPS↓	PSNR↑	SSIM↑	$LPIPS\!\downarrow$	PSNR↑	SSIM↑	$LPIPS\!\!\downarrow$	PSNR↑	SSIM↑	$LPIPS\!\!\downarrow$	PSNR↑	SSIM↑	LPIPS↓	PSNR↑	SSIM↑	LPIPS↓
$VGGT_{enc}$	19.85	.7450	.2127	19.05	.7120	.2273	19.86	.7165	.2911	19.65	.7372	.3143	18.05	.6770	.3237	19.38	.7358	.3534	19.36	.6590	.3549	17.47	.5645	.3751	19.23	.6604	.4103
$VGGT_{dec}$	19.81	.7410	.2167	19.03	.7122	.2258	19.83	.7143	.2748	19.59	.7353	.3191	18.01	.6806	.3236	19.20	.7328	.3534	19.17	.6588	.3578	17.58	.5646	.3786	19.37	.6550	.4107
DUSt3R	19.88	.7442	.2123	19.01	.7120	.2262	19.87	.7190	.2691	19.64	.7338	.3196	18.01	.6815	.3219	19.39	.7360	.3458	19.29	.6562	.3580	17.54	.5693	.3750	19.19	.6556	.4050
MASt3R	19.89	.7447	.2123	19.01	.7115	.2261	19.99	.7250	.2657	19.64	.7334	.3188	18.07	.6813	.3211	19.41	.7373	.3464	19.30	.6550	.3576	17.59	.5708	.3722	19.37	.6588	.4027
MiDaS	19.81	.7420	.2154	19.00	.7129	.2261	19.86	.7142	.2733	19.47	.7271	.3311	17.94	.6796	.3224	19.22	.7291	.3493	19.24	.6545	.3612	17.52	.5693	.3757	18.96	.6516	.4073
DINOv2	19.77	.7345	.2226	19.04	.7133	.2254	19.91	.7163	.2637	19.47	.7293	.3288	18.00	.6805	.3223	19.27	.7317	.3479	19.42	.6524	.3698	17.64	.5701	.3754	19.21	.6535	.4023
DINO	19.81	.7423	.2140	18.98	.7121	.2260	19.97	.7212	.2744	19.60	.7324	.3209	17.97	.6790	.3219	19.41	.7359	.3476	19.24	.6513	.3614	17.50	.5683	.3756	19.10	.6566	.4056
SAM	19.72	.7354	.2181	18.98	.7133	.2260	19.76	.7144	.2629	19.48	.7297	.3271	17.97	.6822	.3218	19.20	.7272	.3459	19.32	.6469	.3704	17.52	.5725	.3736	19.19	.6569	.3981
CLIP	19.78	.7378	.2221	19.02	.7113	.2276	19.74	.7136	.2822	19.53	.7295	.3304	18.05	.6771	.3235	19.22	.7310	.3563	19.21	.6552	.3719	17.46	.5669	.3743	19.05	.6582	.4084
RADIO	19.73	.7402	.2207	19.06	.7101	.2301	19.56	.6999	.3252	19.48	.7313	.3139	18.03	.6748	.3254	19.20	.7316	.3654	19.54	.6545	.3465	17.52	.5666	.3748	18.67	.6533	.4216
MAE	19.75	.7363	.2183	19.00	.7128	.2249	19.92	.7209	.2612	19.54	.7288	.3248	17.98	.6821	.3207	19.34	.7310	.3448	19.03	.6502	.3690	17.51	.5691	.3758	19.18	.6547	.3974
SD	19.62	.7293	.2234	18.85	.7100	.2297	19.78	.7121	.2656	19.31	.7251	.3276	17.79	.6784	.3260	19.10	.7282	.3500	19.24	.6483	.3649	17.38	.5698	.3789	18.86	.6505	.4053
IUVRGB	15.55	.5765	.3986	19.75	.7303	.2262	15.38	.6175	.4308	14.78	.6326	.4541	18.75	.7023	.3250	14.05	.6431	.4386	13.17	.5454	.5248	17.88	.5927	.3846	13.71	.5917	.4955
	MipNeRF 360				MVImgNet							Tanks and Temples															
				Mi	pNeRF 3	360							N	IVImgN	et							Tank	s and Te	mples			
	0	Geometry	y		pNeRF 3		ı	All			Geometr	у	N	IVImgNe Texture	et		All			eometr	y		s and Te	•	1	All	
Feature	PSNR↑	Geometry SSIM↑			Texture		PSNR↑		LPIPS.	!		y LPIPS↓				PSNR↑		LPIPS.			y LPIPS↓			•	PSNR↑	All SSIM↑	LPIPS _↓
	PSNR↑	SSIM↑	LPIPS↓	PSNR↑	Texture SSIM↑	LPIPS↓		SSIM↑		PSNR↑	SSIM↑	LPIPS↓	PSNR↑	Texture SSIM↑	LPIPS↓		SSIM↑		PSNR↑	SSIM↑	LPIPS↓	PSNR↑	Texture SSIM↑	LPIPS↓		SSIM↑	
$VGGT_{enc}$	PSNR↑ 20.93	SSIM↑	LPIPS↓	PSNR↑ 19.25	Texture SSIM↑	LPIPS↓	21.17	SSIM↑	.4892	PSNR↑ 19.48	SSIM↑	LPIPS↓ .2975	PSNR↑ 17.00	Texture SSIM↑	LPIPS↓	19.58	SSIM↑	.3748	PSNR↑ 19.21	SSIM↑	LPIPS↓	PSNR↑	Texture SSIM↑	LPIPS↓	19.04	SSIM↑ .6593	.4017
$VGGT_{enc}$ $VGGT_{dec}$	PSNR↑ 20.93 20.82	SSIM↑ .5120 .5041	LPIPS↓ .3639 .3775	PSNR↑ 19.25 19.02	Texture SSIM↑ .4497 .4476	LPIPS↓ .3828 .3830	21.17 20.92	SSIM↑ .5102 .5053	.4892 .4865	PSNR↑ 19.48 19.28	SSIM↑ .6019 .5934	LPIPS↓ .2975 .3106	PSNR↑ 17.00 16.84	Texture SSIM↑ .5373 .5338	LPIPS↓ .3346 .3345	19.58 19.44	SSIM↑ .5987 .5930	.3748 .3743	PSNR↑ 19.21 18.88	SSIM↑ .6615 .6476	LPIPS↓ .3547 .3683	PSNR↑ 17.75 17.56	Texture SSIM↑ .6221 .6227	.3319 .3344	19.04 18.61	SSIM↑ .6593 .6497	.4017 .4053
VGGT _{enc} VGGT _{dec} DUSt3R	PSNR↑ 20.93 20.82 20.82	SSIM↑ .5120 .5041 .5008	.3639 .3775 .3795	PSNR↑ 19.25 19.02 19.10	Texture SSIM↑ .4497 .4476 .4489	LPIPS↓ .3828 .3830 .3816	21.17 20.92 21.02	SSIM↑ .5102 .5053 .5048	.4892 .4865 .4752	PSNR↑ 19.48 19.28 19.47	.6019 .5934 .6004	.2975 .3106 .3073	PSNR↑ 17.00 16.84 16.88	Texture SSIM↑ .5373 .5338 .5348	LPIPS↓ .3346 .3345 .3334	19.58 19.44 19.43	SSIM↑ .5987 .5930 .5937	.3748 .3743 .3674	PSNR↑ 19.21 18.88 18.85	SSIM↑ .6615 .6476 .6458	.3547 .3683 .3715	PSNR↑ 17.75 17.56 17.53	SSIM↑ .6221 .6227 .6222	LPIPS↓ .3319 .3344 .3328	19.04 18.61 18.61	SSIM↑ .6593 .6497 .6477	.4017 .4053 .4023
VGGT _{enc} VGGT _{dec} DUSt3R MASt3R	PSNR↑ 20.93 20.82 20.82 20.92	.5120 .5041 .5008 .5093	.3639 .3775 .3795 .3745	PSNR↑ 19.25 19.02 19.10 19.21	Texture SSIM↑ .4497 .4476 .4489 .4540	.3828 .3830 .3816 .3803	21.17 20.92 21.02 20.92	.5102 .5053 .5048 .5054	.4892 .4865 .4752 .4749	PSNR↑ 19.48 19.28 19.47 19.49	.6019 .5934 .6004 .6008	.2975 .3106 .3073 .3032	PSNR↑ 17.00 16.84 16.88 16.91	Texture SSIM↑ .5373 .5338 .5348 .5350	.3346 .3345 .3334 .3337	19.58 19.44 19.43 19.49	.5987 .5930 .5937 .5983	.3748 .3743 .3674 .3637	PSNR↑ 19.21 18.88 18.85 18.80	SSIM↑ .6615 .6476 .6458 .6428	.3547 .3683 .3715 .3703	PSNR↑ 17.75 17.56 17.53 17.68	Texture \$SIM↑ .6221 .6227 .6222 .6238	LPIPS↓ .3319 .3344 .3328 .3319	19.04 18.61 18.61 18.76	.6593 .6497 .6477 .6512	.4017 .4053 .4023 .3991
VGGT _{enc} VGGT _{dec} DUSt3R MASt3R MiDaS	PSNR↑ 20.93 20.82 20.82 20.92 20.89	.5120 .5041 .5008 .5093 .5059	.3639 .3775 .3795 .3745 .3815	PSNR↑ 19.25 19.02 19.10 19.21 19.05	Texture SSIM↑ .4497 .4476 .4489 .4540 .4509	.3828 .3830 .3816 .3803 .3813	21.17 20.92 21.02 20.92 20.84	.5102 .5053 .5048 .5054 .5004	.4892 .4865 .4752 .4749 .4795	PSNR↑ 19.48 19.28 19.47 19.49 19.35	.6019 .5934 .6004 .6008 .5900	LPIPS↓ .2975 .3106 .3073 .3032 .3222	PSNR↑ 17.00 16.84 16.88 16.91 16.82	Texture SSIM↑ .5373 .5338 .5348 .5350 .5336	.3346 .3345 .3334 .3337 .3343	19.58 19.44 19.43 19.49 19.34	.5987 .5930 .5937 .5983 .5910	.3748 .3743 .3674 .3637 .3672	PSNR↑ 19.21 18.88 18.85 18.80 18.53	.6615 .6476 .6458 .6428 .6374	LPIPS↓ .3547 .3683 .3715 .3703 .3798	PSNR↑ 17.75 17.56 17.53 17.68 17.64	Texture \$SIM↑ .6221 .6227 .6222 .6238 .6238		19.04 18.61 18.61 18.76 18.32	.6593 .6497 .6477 .6512 .6428	.4017 .4053 .4023 .3991 .4039
VGGT _{enc} VGGT _{dec} DUSt3R MASt3R MiDaS DINOv2	PSNR↑ 20.93 20.82 20.82 20.92 20.89 20.81	.5120 .5041 .5008 .5093 .5059 .4946	.3639 .3775 .3795 .3745 .3815 .3953	PSNR↑ 19.25 19.02 19.10 19.21 19.05 19.05	Texture \$SIM↑ .4497 .4476 .4489 .4540 .4509 .4495	.3828 .3830 .3816 .3803 .3813 .3821	21.17 20.92 21.02 20.92 20.84 20.75	SSIM↑ .5102 .5053 .5048 .5054 .5004 .4924	.4892 .4865 .4752 .4749 .4795	PSNR↑ 19.48 19.28 19.47 19.49 19.35 19.35	.6019 .5934 .6004 .6008 .5900 .5896	.2975 .3106 .3073 .3032 .3222 .3246	PSNR↑ 17.00 16.84 16.88 16.91 16.82 16.88	Texture SSIM↑ .5373 .5338 .5348 .5350 .5336 .5359	.3346 .3345 .3334 .3337 .3343 .3344	19.58 19.44 19.43 19.49 19.34 19.43	.5987 .5930 .5937 .5983 .5910 .5943	.3748 .3743 .3674 .3637 .3672 .3674	PSNR↑ 19.21 18.88 18.85 18.80 18.53 18.71	.6615 .6476 .6458 .6428 .6374 .6432	.3547 .3683 .3715 .3703 .3798 .3772	PSNR↑ 17.75 17.56 17.53 17.68 17.64 17.58	Texture \$SIM↑ .6221 .6227 .6222 .6238 .6238 .6214	LPIPS↓ .3319 .3344 .3328 .3319 .3333 .3348	19.04 18.61 18.61 18.76 18.32 18.43	SSIM↑ .6593 .6497 .6477 .6512 .6428 .6443	.4017 .4053 .4023 .3991 .4039 .4064
VGGT _{enc} VGGT _{dec} DUSt3R MASt3R MiDaS DINOv2 DINO	20.93 20.82 20.82 20.82 20.92 20.89 20.81 20.91	SSIM↑ .5120 .5041 .5008 .5093 .5059 .4946 .5054	.3639 .3775 .3795 .3745 .3815 .3953 .3769	PSNR↑ 19.25 19.02 19.10 19.21 19.05 19.05 19.18	Texture \$SIM↑ .4497 .4476 .4489 .4540 .4509 .4495 .4545	.3828 .3830 .3816 .3803 .3813 .3821 .3795	21.17 20.92 21.02 20.92 20.84 20.75 20.83	.5102 .5053 .5048 .5054 .5004 .4924 .5010	.4892 .4865 .4752 .4749 .4795 .4684 .4772	PSNR↑ 19.48 19.28 19.47 19.49 19.35 19.35 19.44	.6019 .5934 .6004 .6008 .5900 .5896	.2975 .3106 .3073 .3032 .3222 .3246 .3071	PSNR↑ 17.00 16.84 16.88 16.91 16.82 16.88 16.90	Texture \$SIM↑ .5373 .5338 .5348 .5350 .5336 .5359 .5394	LPIPS↓ .3346 .3345 .3334 .3337 .3343 .3344 .3329	19.58 19.44 19.43 19.49 19.34 19.43 19.41	.5987 .5930 .5937 .5983 .5910 .5943 .5952	.3748 .3743 .3674 .3637 .3672 .3674 .3683	PSNR↑ 19.21 18.88 18.85 18.80 18.53 18.71 18.75	.6615 .6476 .6458 .6428 .6374 .6432 .6416	.3547 .3683 .3715 .3703 .3798 .3772 .3733	PSNR↑ 17.75 17.56 17.53 17.68 17.64 17.58 17.66	Texture \$SIM↑ .6221 .6227 .6222 .6238 .6238 .6214 .6233	LPIPS↓ .3319 .3344 .3328 .3319 .3333 .3348 .3330	19.04 18.61 18.61 18.76 18.32 18.43 18.61	.6593 .6497 .6477 .6512 .6428 .6443	.4017 .4053 .4023 .3991 .4039 .4064 .4030
VGGT _{enc} VGGT _{dec} DUSt3R MASt3R MiDaS DINOv2 DINO SAM	20.93 20.82 20.82 20.92 20.89 20.81 20.91 20.73	SSIM↑ .5120 .5041 .5008 .5093 .5059 .4946 .5054 .4913	.3639 .3775 .3795 .3745 .3815 .3953 .3769 .3945	PSNR↑ 19.25 19.02 19.10 19.21 19.05 19.05 19.18 19.14	Texture SSIM↑ .4497 .4476 .4489 .4540 .4509 .4495 .4545 .4556	.3828 .3830 .3816 .3803 .3813 .3821 .3795	21.17 20.92 21.02 20.92 20.84 20.75 20.83 20.75	.5102 .5053 .5048 .5054 .5004 .4924 .5010 .4949	.4892 .4865 .4752 .4749 .4795 .4684 .4772	PSNR↑ 19.48 19.28 19.47 19.49 19.35 19.35 19.44 19.23	.6019 .5934 .6004 .6008 .5900 .5896 .5982	.2975 .3106 .3073 .3032 .3222 .3246 .3071 .3188	17.00 16.84 16.88 16.91 16.82 16.88 16.90 16.84	Texture SSIM↑ .5373 .5338 .5348 .5350 .5336 .5359 .5394 .5346	LPIPS↓ .3346 .3345 .3334 .3337 .3343 .3344 .3329 .3346	19.58 19.44 19.43 19.49 19.34 19.43 19.41 19.29	.5987 .5930 .5937 .5983 .5910 .5943 .5952 .5915	.3748 .3743 .3674 .3637 .3672 .3674 .3683	PSNR↑ 19.21 18.88 18.85 18.80 18.53 18.71 18.75 18.65	SSIM↑ .6615 .6476 .6458 .6428 .6374 .6432 .6416 .6421	.3547 .3683 .3715 .3703 .3798 .3772 .3733 .3780	PSNR↑ 17.75 17.56 17.53 17.68 17.64 17.58 17.66 17.49	SSIM↑ .6221 .6227 .6222 .6238 .6238 .6214 .6233 .6217	LPIPS. .3319 .3344 .3328 .3319 .3333 .3348 .3330 .3338	19.04 18.61 18.61 18.76 18.32 18.43 18.61 18.43	.6593 .6497 .6477 .6512 .6428 .6443 .6467	.4017 .4053 .4023 .3991 .4039 .4064 .4030
VGGT _{enc} VGGT _{dec} DUSt3R MASt3R MiDaS DINOv2 DINO SAM CLIP	20.93 20.82 20.82 20.92 20.89 20.81 20.91 20.73 20.80	SSIM↑ .5120 .5041 .5008 .5093 .5059 .4946 .5054 .4913 .4982	.3639 .3775 .3795 .3745 .3815 .3953 .3769 .3945 .3913	PSNR↑ 19.25 19.02 19.10 19.21 19.05 19.05 19.18 19.14 19.28	Texture SSIM↑ .4497 .4476 .4489 .4540 .4509 .4495 .4545 .4556 .4543	.3828 .3830 .3816 .3803 .3813 .3821 .3795 .3775 .3807	21.17 20.92 21.02 20.92 20.84 20.75 20.83 20.75 20.88	SSIM↑ .5102 .5053 .5048 .5054 .5004 .4924 .5010 .4949 .4984	.4892 .4865 .4752 .4749 .4795 .4684 .4772 .4639 .4773	PSNR↑ 19.48 19.28 19.47 19.49 19.35 19.35 19.44 19.23 19.41	SSIM↑ .6019 .5934 .6004 .6008 .5900 .5896 .5982 .5899	.2975 .3106 .3073 .3032 .3222 .3246 .3071 .3188 .3098	PSNR↑ 17.00 16.84 16.88 16.91 16.82 16.88 16.90 16.84 16.96	Texture SSIM↑ .5373 .5338 .5348 .5350 .5336 .5359 .5394 .5346 .5362	.3346 .3345 .3334 .3337 .3343 .3344 .3329 .3346 .3358	19.58 19.44 19.43 19.49 19.34 19.43 19.41 19.29 19.37	.5987 .5930 .5937 .5983 .5910 .5943 .5952 .5915 .5969	.3748 .3743 .3674 .3637 .3672 .3674 .3683 .3649	PSNR↑ 19.21 18.88 18.85 18.80 18.53 18.71 18.75 18.65 18.92	SSIM↑ .6615 .6476 .6458 .6428 .6374 .6432 .6416 .6421 .6463	.3547 .3683 .3715 .3703 .3798 .3772 .3733 .3780 .3729	PSNR↑ 17.75 17.56 17.53 17.68 17.64 17.58 17.66 17.49 17.81	SSIM↑ .6221 .6227 .6222 .6238 .6238 .6214 .6233 .6217 .6226	.3319 .3344 .3328 .3319 .3333 .3348 .3330 .3338	19.04 18.61 18.61 18.76 18.32 18.43 18.61 18.43	.6593 .6497 .6477 .6512 .6428 .6443 .6467 .6425	.4017 .4053 .4023 .3991 .4039 .4064 .4030 .4029
VGGT _{enc} VGGT _{dec} DUSt3R MASt3R MiDaS DINOv2 DINO SAM CLIP RADIO	20.93 20.82 20.82 20.82 20.92 20.89 20.81 20.91 20.73 20.80 20.87	.5120 .5041 .5008 .5093 .5059 .4946 .5054 .4913 .4982 .5100	.3639 .3775 .3795 .3745 .3815 .3953 .3769 .3945 .3913 .3620	PSNR↑ 19.25 19.02 19.10 19.21 19.05 19.05 19.18 19.14 19.28 19.35	Texture SSIM↑ .4497 .4476 .4489 .4540 .4509 .4495 .4545 .4556 .4543 .4550	.3828 .3830 .3816 .3803 .3813 .3821 .3795 .3775 .3807	21.17 20.92 21.02 20.92 20.84 20.75 20.83 20.75 20.88 20.91	\$\$IM\(\gamma\) 5102 .5053 .5048 .5054 .5004 .4924 .5010 .4949 .4984 .5067	.4892 .4865 .4752 .4749 .4795 .4684 .4772 .4639 .4773 .5127	PSNR↑ 19.48 19.28 19.47 19.49 19.35 19.35 19.44 19.23 19.41	.6019 .5934 .6004 .6008 .5900 .5896 .5982 .5899 .5945	.2975 .3106 .3073 .3032 .3222 .3246 .3071 .3188 .3098 .2949	PSNR↑ 17.00 16.84 16.88 16.91 16.82 16.88 16.90 16.84 16.96 16.99	Texture SSIM↑ .5373 .5338 .5348 .5350 .5336 .5359 .5394 .5346 .5362 .5373	.3346 .3345 .3334 .3337 .3343 .3344 .3329 .3346 .3358 .3366	19.58 19.44 19.43 19.49 19.34 19.43 19.41 19.29 19.37 19.60	.5987 .5930 .5937 .5938 .5910 .5943 .5952 .5915 .5969 .5955	.3748 .3743 .3674 .3637 .3672 .3674 .3683 .3649 .3695 .3946	19.21 18.88 18.85 18.80 18.53 18.71 18.75 18.65 18.92 19.19	SSIM↑ .6615 .6476 .6458 .6428 .6374 .6432 .6416 .6421 .6463	3547 3683 3715 3703 3798 3772 3733 3780 3729 3480	PSNR↑ 17.75 17.56 17.53 17.68 17.64 17.58 17.66 17.49 17.81 17.84	SSIM↑ .6221 .6227 .6222 .6238 .6238 .6214 .6233 .6217 .6226 .6225	.3319 .3344 .3328 .3319 .3333 .3348 .3330 .3338 .3316	19.04 18.61 18.61 18.76 18.32 18.43 18.61 18.43 18.75	.6593 .6497 .6477 .6512 .6428 .6443 .6467 .6425	.4017 .4053 .4023 .3991 .4039 .4064 .4030 .4029 .4052 .4109
VGGT _{enc} VGGT _{dec} DUSt3R MASt3R MiDaS DINOv2 DINO SAM CLIP RADIO MAE	PSNR↑ 20.93 20.82 20.82 20.92 20.89 20.81 20.73 20.80 20.87 20.82	.5120 .5041 .5008 .5093 .5059 .4946 .5054 .4913 .4982 .5100	.3639 .3775 .3795 .3745 .3815 .3953 .3769 .3945 .3913 .3620 .3884	PSNR↑ 19.25 19.02 19.10 19.21 19.05 19.05 19.18 19.14 19.28 19.35 19.14	Texture SSIM .4497 .4476 .4489 .4540 .4509 .4495 .4545 .4556 .4543 .4550 .4572	.3828 .3830 .3816 .3803 .3813 .3821 .3795 .3775 .3807 .3819	21.17 20.92 21.02 20.92 20.84 20.75 20.83 20.75 20.88 20.91 20.79	\$\$IM\(\gamma\) 5102 .5053 .5048 .5054 .5004 .4924 .5010 .4949 .4984 .5067 .4995	.4892 .4865 .4752 .4749 .4795 .4684 .4772 .4639 .4773 .5127	PSNR↑ 19.48 19.28 19.47 19.49 19.35 19.35 19.44 19.23 19.41 19.54 19.23	.6019 .5934 .6004 .6008 .5900 .5896 .5982 .5899 .5945 .6105	.2975 .3106 .3073 .3032 .3222 .3246 .3071 .3188 .3098 .2949	17.00 16.84 16.88 16.91 16.82 16.88 16.90 16.84 16.96 16.99	Texture SSIM↑ .5373 .5338 .5348 .5350 .5336 .5359 .5394 .5346 .5362 .5373 .5355	3346 3345 3334 3337 3343 3344 3329 3346 3358 3366	19.58 19.44 19.43 19.49 19.34 19.41 19.29 19.37 19.60 19.25	.5987 .5930 .5937 .5938 .5910 .5943 .5952 .5915 .5969 .5955	.3748 .3743 .3674 .3637 .3672 .3674 .3683 .3649 .3695 .3946 .3680	PSNR↑ 19.21 18.88 18.85 18.80 18.53 18.71 18.75 18.65 18.92 19.19 18.65	SSIM↑ .6615 .6476 .6458 .6428 .6374 .6432 .6416 .6421 .6463 .6612 .6395	LPIPS\$\pressure\$ 3547 3683 3715 3703 3798 3772 3733 3780 3729 3480 3758	PSNR↑ 17.75 17.56 17.53 17.68 17.64 17.58 17.66 17.49 17.81 17.84 17.55	Texture SSIM↑ .6221 .6227 .6222 .6238 .6238 .6214 .6233 .6217 .6226 .6225 .6234	.3319 .3344 .3328 .3319 .3333 .3348 .3330 .3338 .3316 .3321 .3333	19.04 18.61 18.61 18.76 18.32 18.43 18.61 18.43 18.75 19.01 18.49	.6593 .6497 .6477 .6512 .6428 .6443 .6467 .6425 .6515	.4017 .4053 .4023 .3991 .4039 .4064 .4030 .4029 .4052 .4109
VGGT _{enc} VGGT _{dec} DUSt3R MASt3R MiDaS DINOv2 DINO SAM CLIP RADIO	20.93 20.82 20.82 20.82 20.92 20.89 20.81 20.91 20.73 20.80 20.87	.5120 .5041 .5008 .5093 .5059 .4946 .5054 .4913 .4982 .5100	.3639 .3775 .3795 .3745 .3815 .3953 .3769 .3945 .3913 .3620	PSNR↑ 19.25 19.02 19.10 19.21 19.05 19.05 19.18 19.14 19.28 19.35	Texture SSIM↑ .4497 .4476 .4489 .4540 .4509 .4495 .4545 .4556 .4543 .4550	.3828 .3830 .3816 .3803 .3813 .3821 .3795 .3775 .3807	21.17 20.92 21.02 20.92 20.84 20.75 20.83 20.75 20.88 20.91	\$\$IM\(\gamma\) 5102 .5053 .5048 .5054 .5004 .4924 .5010 .4949 .4984 .5067	.4892 .4865 .4752 .4749 .4795 .4684 .4772 .4639 .4773 .5127	PSNR↑ 19.48 19.28 19.47 19.49 19.35 19.35 19.44 19.23 19.41	.6019 .5934 .6004 .6008 .5900 .5896 .5982 .5899 .5945	.2975 .3106 .3073 .3032 .3222 .3246 .3071 .3188 .3098 .2949	PSNR↑ 17.00 16.84 16.88 16.91 16.82 16.88 16.90 16.84 16.96 16.99	Texture SSIM↑ .5373 .5338 .5348 .5350 .5336 .5359 .5394 .5346 .5362 .5373	.3346 .3345 .3334 .3337 .3343 .3344 .3329 .3346 .3358 .3366	19.58 19.44 19.43 19.49 19.34 19.43 19.41 19.29 19.37 19.60	.5987 .5930 .5937 .5938 .5910 .5943 .5952 .5915 .5969 .5955	.3748 .3743 .3674 .3637 .3672 .3674 .3683 .3649 .3695 .3946	19.21 18.88 18.85 18.80 18.53 18.71 18.75 18.65 18.92 19.19	SSIM↑ .6615 .6476 .6458 .6428 .6374 .6432 .6416 .6421 .6463	3547 3683 3715 3703 3798 3772 3733 3780 3729 3480	PSNR↑ 17.75 17.56 17.53 17.68 17.64 17.58 17.66 17.49 17.81 17.84	SSIM↑ .6221 .6227 .6222 .6238 .6238 .6214 .6233 .6217 .6226 .6225	.3319 .3344 .3328 .3319 .3333 .3348 .3330 .3338 .3316	19.04 18.61 18.61 18.76 18.32 18.43 18.61 18.43 18.75	.6593 .6497 .6477 .6512 .6428 .6443 .6467 .6425	.4017 .4053 .4023 .3991 .4039 .4064 .4030 .4029 .4052 .4109

Table 1. **Quantitative Results.** We evaluate geometry and texture awareness of VFMs on NVS using $\underline{\text{Geometry}}$, $\underline{\text{Texture}}$, and $\underline{\text{All}}$ probing modes. Performance is ranked by color, from worst to best.

	All Datasets (30 scenes)											
		Geometr	y		Texture		All					
Feature	PSNR↑	SSIM↑	LPIPS↓	PSNR↑	SSIM↑	LPIPS↓	PSNR↑	SSIM↑	LPIPS↓			
$\overline{ ext{VGGT}_{enc}}$	19.75	.6527	.3163	18.10	.5938	.3292	19.71	.6468	.3868			
VGGT_{dec}	19.59	.6467	.3250	18.01	.5936	.3300	19.56	.6417	.3842			
DUSt3R	19.66	.6469	.3247	18.01	.5948	.3285	19.58	.6428	.3775			
MASt3R	19.67	.6477	.3228	18.08	.5961	.3276	19.66	.6460	.3754			
MiDaS	19.55	.6428	.3319	18.00	.5950	.3288	19.42	.6382	.3801			
DINOv2	19.59	.6406	.3364	18.03	.5951	.3291	19.50	.6388	.3760			
DINO	19.63	.6452	.3256	18.03	.5961	.3282	19.55	.6427	.3793			
SAM	19.52	.6392	.3345	17.99	.5966	.3279	19.44	.6379	.3731			
CLIP	19.61	.6436	.3331	18.10	.5947	.3289	19.50	.6416	.3832			
RADIO	19.73	.6513	.3143	18.13	.5944	.3301	19.49	.6407	.4051			
MAE	19.50	.6408	.3317	18.00	.5967	.3276	19.50	.6404	.3730			
SD	19.44	.6382	.3350	17.81	.5931	.3325	19.32	.6357	.3760			
IUVRGB	15.01	.5422	.4845	18.80	.6191	.3349	15.02	.5670	.4832			

Table 2. Average Results on all datasets.