

LAMPIRAN A
DATA HASIL *DECODING*

A.1. Pengujian 1.1.1

Bit *watermark* masukan : 00100100

Bit *watermark* keluaran : 00101100

Tabel A.1. Data proses *decoding* pengujian 1.1.1

Segmen Ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4158280	-4148900	-	-
2	-3550310	-3576390	607969	572505
3	-3486920	-3538040	63393.3	38358.9
4	-3367570	-3375640	119351	162400
5	-3468100	-3527980	-100534	-152349
6	-3515920	-3573150	-47820.8	-45163.7
7	-3633660	-3591430	-117735	-18279.6
8	-3498980	-3507510	134679	83919.3
9	-3388500	-3416320	110483	91193.1

A.2. Pengujian 1.1.2

Bit *watermark* masukan : 1000101011100

Bit *watermark* keluaran : 1001111010101

Tabel A.2. Data proses *decoding* pengujian 1.1.2

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4158280	-4148850	-	-
2	-3550310	-3515440	607969	633404
3	-3486920	-3514230	63393.3	1214.32
4	-3367570	-3428120	119351	86114.4
5	-3468100	-3520790	-100534	-92672.4
6	-3515920	-3525200	-47820.8	-4411.17
7	-3633660	-3635270	-117735	-110072
8	-3498980	-3452250	134679	183027
9	-3388500	-3411020	110483	41221.5
10	-3408820	-3342510	-20329.3	68512.6
11	-3403720	-3469280	5100.45	-126765
12	-3382000	-3328460	21721.5	140811
13	-3295120	-3335580	86880.2	-7119.59
14	-3262320	-3284160	32806.1	51420

A.3. Pengujian 1.2.1

Bit *watermark* masukan : 00100100

Bit *watermark* keluaran : 00100100

Tabel A.3. Data proses decoding pengujian 1.2.1

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4158280	-4148860	-	-
2	-3550310	-3559010	607969	589851
3	-3486920	-3528320	63393.3	30688.9
4	-3367570	-3379490	119351	148831
5	-3468100	-3499810	-100534	-120326
6	-3515920	-3626070	-47820.8	-126256
7	-3633660	-3548590	-117735	77475.4
8	-3498980	-3447320	134679	101269
9	-3388500	-3349910	110483	97415.9

A.4. Pengujian 1.2.2

Bit *watermark* masukan : 1000101011100

Bit *watermark* keluaran : 0011010001100

Tabel A.4. Data proses decoding pengujian 1.2.2

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4158280	-4149540	-	-
2	-3550310	-3553470	607969	596072
3	-3486920	-3531480	63393.3	21986.7
4	-3367570	-3400430	119351	131051
5	-3468100	-3491870	-100534	-91433.1
6	-3515920	-3615910	-47820.8	-124040
7	-3633660	-3539330	-117735	76576.4
8	-3498980	-3452860	134679	86468.3
9	-3388500	-3387190	110483	65668.8
10	-3408820	-3476950	-20329.3	-89755.9
11	-3403720	-3335050	5100.45	141895
12	-3382000	-3312420	21721.5	22637.7
13	-3295120	-3302350	86880.2	10069.6
14	-3262320	-3364030	32806.1	-61680.8

A.5. Pengujian 2.1.1

Bit *watermark* masukan : 00100100

Bit *watermark* keluaran : 00101101

Tabel A.5. Data proses *decoding* pengujian 2.1.1

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4792840	-4788100	-	-
2	-4124240	-4152250	668599	635850
3	-4163280	-4211550	-39039.3	-59298.7
4	-4137110	-4129730	26162.6	81818.2
5	-4112380	-4171410	24730.2	-41677.4
6	-4095040	-4137800	17348.3	33604.2
7	-4084150	-4087130	10882.5	50669.8
8	-4090910	-4121820	-6754.31	-34684.3
9	-3950470	-3905560	140438	216258

A.6. Pengujian 2.1.2

Bit *watermark* masukan : 1000101011100

Bit *watermark* keluaran : 1001101110101

Tabel A.6. Data proses *decoding* pengujian 2.1.2

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4792840	-4788540	-	-
2	-4124240	-4103910	668599	684630
3	-4163280	-4208520	-39039.3	-104613
4	-4137110	-4190000	26162.6	18524.6
5	-4112380	-4161640	24730.2	28362.7
6	-4095040	-4116710	17348.3	44921
7	-4084150	-4110530	10882.5	6184.83
8	-4090910	-4071450	-6754.31	39078.8
9	-3950470	-3899370	140438	172086
10	-3671920	-3524730	278545	374639
11	-3587520	-3689360	84400.7	-164630
12	-3586360	-3442010	1162.44	247345
13	-3578400	-3729140	7964.72	-287132
14	-3529530	-3437850	48865	291289

A.7. Pengujian 2.2.1

Bit watermark masukan : 00100100

Bit watermark keluaran : 01100011

Tabel A.7. Data proses decoding pengujian 2.2.1

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4792840	-4781120	-	-
2	-4124240	-4155240	668599	625883
3	-4163280	-4181450	-39039.3	-26214.2
4	-4137110	-4145990	26162.6	35462.2
5	-4112380	-4135480	24730.2	10503
6	-4095040	-4129810	17348.3	5673.41
7	-4084150	-4142490	10882.5	-12677.4
8	-4090910	-4026130	-6754.31	116356
9	-3950470	-3676740	140438	349395

A.8. Pengujian 2.2.2

Bit watermark masukan : 1000101011100

Bit watermark keluaran : 0001001101011

Tabel A.8. Data proses decoding pengujian 2.2.2

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4792840	-4781150	-	-
2	-4124240	-4123250	668599	657909
3	-4163280	-4189570	-39039.3	-66328.9
4	-4137110	-4171360	26162.6	18216.2
5	-4112380	-4125300	24730.2	46054.1
6	-4095040	-4132090	17348.3	-6789.76
7	-4084150	-4122930	10882.5	9164.21
8	-4090910	-4040020	-6754.31	82904.6
9	-3950470	-3687440	140438	352588
10	-3671920	-3653360	278545	34079.3
11	-3587520	-3520830	84400.7	132528
12	-3586360	-3728140	1162.44	-207306
13	-3578400	-3501380	7964.72	226753
14	-3529530	-3286920	48865	214467

A.9. Pengujian 3.1.1

Bit watermark masukan : 00100100
 Bit watermark keluaran : 01001001

Tabel A.9. Data proses *decoding* pengujian 3.1.1

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4313090	-4302160	-	-
2	-4201170	-4236410	111925	65744
3	-3686890	-3690620	514275	545793
4	-3760870	-3789230	-73979	-98615
5	-3797920	-3830890	-37050	-41656
6	-3791320	-3793250	6597	37635
7	-3773180	-3839020	18141	-45766
8	-4166990	-4240940	-393811	-401925
9	-4225970	-3911550	-58974	329393

A.10. Pengujian 3.1.2

Bit watermark masukan : 1000101011100
 Bit watermark keluaran : 1001101100101

Tabel A.10. Data proses *decoding* pengujian 3.1.2

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4313090	-4301700	-	-
2	-4201170	-4184920	111925	116781
3	-3686890	-3683170	514275	501754
4	-3760870	-3840040	-73978.7	-156873
5	-3797920	-3826600	-37050	13438
6	-3791320	-3747280	6596.79	79321.6
7	-3773180	-3870580	18140.5	-123301
8	-4166990	-4181860	-393811	-311284
9	-4225970	-3946040	-58974.2	235825
10	-3401010	-3356100	824958	589944
11	-3294690	-3493390	106321	-137295
12	-3198710	-3014380	95978.5	479010
13	-3051430	-3215120	147277	-200741
14	-3339350	-3465500	-287912	-250381

A.11. Pengujian 3.2.1

Bit watermark masukan : 00100100
 Bit watermark keluaran : 10001011

Tabel A.11. Data proses decoding pengujian 3.2.1

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4313090	-4300570	-	-
2	-4201170	-4155660	111925	144909
3	-3686890	-3677570	514275	478089
4	-3760870	-3806360	-73978.7	-128793
5	-3797920	-3934410	-37050	-128048
6	-3791320	-3723010	6596.79	211398
7	-3773180	-4125590	18140.5	-402575
8	-4166990	-4264210	-393811	-138618
9	-4225970	-3304080	-58974.2	960128

A.12. Pengujian 3.2.2

Bit watermark masukan : 1000101011100
 Bit watermark keluaran : 1000101101001

Tabel A.12. Data proses decoding pengujian 3.2.2

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4313090	-4301370	-	-
2	-4201170	-4122760	111925	178611
3	-3686890	-3647350	514275	475402
4	-3760870	-3816250	-73978.7	-168899
5	-3797920	-3915460	-37050	-99204.3
6	-3791320	-3716600	6596.79	198853
7	-3773180	-4102910	18140.5	-386308
8	-4166990	-4282090	-393811	-179173
9	-4225970	-3356010	-58974.2	926075
10	-3401010	-3369170	824958	-13158
11	-3294690	-3119230	106321	249941
12	-3198710	-3208560	95978.5	-89329.7
13	-3051430	-3498800	147277	-290239

A.13. Pengujian 4.1.1

Bit *watermark* masukan : 00100100

Bit *watermark* keluaran : 00100100

Tabel A.13. Data proses *decoding* pengujian 4.1.1

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4270820	-4258640	-	-
2	-3720340	-3730880	550483	527754
3	-3609590	-3648480	110750	82404.6
4	-3509130	-3524440	100453	124038
5	-3539160	-3596640	-30024.2	-72198.7
6	-3599970	-3669660	-60818	-73017.8
7	-3647420	-3601090	-47441.4	68570
8	-3576870	-3594300	70549.4	6787.54
9	-3473550	-3495150	103316	99149

A.14. Pengujian 4.1.2

Bit *watermark* masukan : 1000101011100

Bit *watermark* keluaran : 1001111010101

Tabel A.14. Data proses *decoding* pengujian 4.1.2

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4270820	-4258840	-	-
2	-3720340	-3687620	550483	571222
3	-3609590	-3642450	110750	45168
4	-3509130	-3580780	100453	61672.1
5	-3539160	-3583610	-30024.2	-2825.79
6	-3599970	-3608120	-60818	-24514.9
7	-3647420	-3645060	-47441.4	-36936.5
8	-3576870	-3544890	70549.4	100167
9	-3473550	-3475940	103316	68953.9
10	-3486030	-3426170	-12476.2	49772.1
11	-3472780	-3512260	13251.4	-86096.7
12	-3433320	-3405880	39451.5	106377
13	-3370570	-3451960	62757.7	-46077.1
14	-3377470	-3407670	-6900.26	44291.1

A.15. Pengujian 4.2.1

Bit *watermark* masukan : 00100100

Bit *watermark* keluaran : 00101110

Tabel A.15. Data proses decoding pengujian 4.2.1

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4270820	-4255170	-	-
2	-3720340	-3730070	550483	525103
3	-3609590	-3633630	110750	96440
4	-3509130	-3501420	100453	132211
5	-3539160	-3594210	-30024.2	-92795.1
6	-3599970	-3652170	-60818	-57962.7
7	-3647420	-3608110	-47441.4	44061.8
8	-3576870	-3532560	70549.4	75556.3
9	-3473550	-3432940	103316	99618.3

A.16. Pengujian 4.2.2

Bit *watermark* masukan : 1000101011100

Bit *watermark* keluaran : 0010110001000

Tabel A.16. Data proses decoding pengujian 4.2.2

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4270820	-4255860	-	-
2	-3720340	-3714800	550483	541067
3	-3609590	-3640560	110750	74232.4
4	-3509130	-3527220	100453	113341
5	-3539160	-3587360	-30024.2	-60135
6	-3599970	-3643200	-60818	-55847
7	-3647420	-3595610	-47441.4	47590.8
8	-3576870	-3540950	70549.4	54665.9
9	-3473550	-3458770	103316	82176.6
10	-3486030	-3546900	-12476.2	-88132.1
11	-3472780	-3385420	13251.4	161482
12	-3433320	-3410350	39451.5	-24927.9
13	-3370570	-3421710	62757.7	-11363.8
14	-3377470	-3487670	-6900.26	-65954.8

A.17. Pengujian 5.1.1

Bit *watermark* masukan : 00100100

Bit *watermark* keluaran : 00100110

Tabel A.17. Data proses *decoding* pengujian 5.1.1

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4471400	-4463410	-	-
2	-3417540	-3418810	1053860	1044600
3	-3637640	-3687300	-220101	-268492
4	-3667900	-3629790	-30259	57509.5
5	-3556150	-3531170	111756	98625.3
6	-3512860	-3538360	43289.4	-7191.92
7	-3600470	-3584140	-87617.6	-45785
8	-3555690	-3537120	44780.7	47020.6
9	-3346220	-3360010	209471	177110

A.18. Pengujian 5.1.2

Bit *watermark* masukan : 1000101011100

Bit *watermark* keluaran : 1011011010101

Tabel A.18. Data proses *decoding* pengujian 5.1.2

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4471400	-4463750	-	-
2	-3417540	-3369230	1053860	1094520
3	-3637640	-3673160	-220101	-303925
4	-3667900	-3688730	-30259	-15569.6
5	-3556150	-3518810	111756	169913
6	-3512860	-3538860	43289.4	-20041.1
7	-3600470	-3616440	-87617.6	-77582.5
8	-3555690	-3494380	44780.7	122055
9	-3346220	-3369940	209471	124442
10	-3397520	-3402270	-51296.9	-32333.2
11	-3319080	-3333040	78442.6	69234.2
12	-3365760	-3266820	-46686.8	66223.7
13	-3255590	-3312550	110175	-45729.4
14	-3299900	-3264280	-44313.2	48263.9

A.19. Pengujian 5.2.1

Bit *watermark* masukan : 00100100

Bit *watermark* keluaran : 00110110

Tabel A.19. Data proses decoding pengujian 5.2.1

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4471400	-4480870	-	-
2	-3417540	-3446480	1053860	1034400
3	-3637640	-3691270	-220101	-244795
4	-3667900	-3639970	-30259	51298.7
5	-3556150	-3481660	111756	158309
6	-3512860	-3635160	43289.4	-153501
7	-3600470	-3620420	-87617.6	14744.8
8	-3555690	-3467130	44780.7	153293
9	-3346220	-3419850	209471	47271.6

A.20. Pengujian 5.2.2

Bit *watermark* masukan : 1000101011100

Bit *watermark* keluaran : 0011011010101

Tabel A.20. Data proses decoding pengujian 5.2.2

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4471400	-4480380	-	-
2	-3417540	-3445650	1053860	1034730
3	-3637640	-3692270	-220101	-246623
4	-3667900	-3657710	-30259	34567.9
5	-3556150	-3474220	111756	183490
6	-3512860	-3632250	43289.4	-158030
7	-3600470	-3612400	-87617.6	19844.8
8	-3555690	-3483940	44780.7	128457
9	-3346220	-3419850	209471	64093.2
10	-3397520	-3358710	-51296.9	61140.1
11	-3319080	-3346660	78442.6	12054.1
12	-3365760	-3333050	-46686.8	13602.2
13	-3255590	-3300880	110175	32169.3
14	-3299900	-3201390	-44313.2	99494.3

A.21. Pengujian 6.1.1

Bit *watermark* masukan : 00100100
 Bit *watermark* keluaran : 01101001

Tabel A.21. Data proses *decoding* pengujian 6.1.1

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4385310	-4375540	-	-
2	-4273470	-4319890	111834	55655.3
3	-3665850	-3674690	607625	645193
4	~	-3798700	~	-124011
5	-3798360	-3838070	~	-39365.6
6	-3751000	-3778900	47356.2	59167.5
7	-3793120	-3870240	-42113.5	-91341.1
8	-4230850	-4329470	-437732	-459227
9	-4289470	-4004230	-58619	325236

A.22. Pengujian 6.1.2

Bit *watermark* masukan : 1000101011100
 Bit *watermark* keluaran : 1010101100100

Tabel A.22. Data proses *decoding* pengujian 6.1.2

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4385310	-4375080	-	-
2	-4273470	-4257310	111834	117763
3	-3665850	-3662790	607625	594519
4	~	-3846640	~	-183847
5	-3798360	-3833690	~	12953
6	-3751000	-3740910	47356.2	92780.6
7	-3793120	-3910980	-42113.5	-170070
8	-4230850	-4247620	-437732	-336640
9	-4289470	-4027180	-58619	220437
10	-3484860	-3438100	804607	589078
11	-3384880	-3542260	99980	-104155
12	-3303760	-3115660	81125.9	426594
13	-3133430	-3255890	170322	-140231
14	-3387420	-3528360	-253982	-272462

A.23. Pengujian 6.2.1

Bit *watermark* masukan : 00100100

Bit *watermark* keluaran : 10101011

Tabel A.23. Data proses decoding pengujian 6.2.1

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4385310	-4372380	-	-
2	-4273470	-4199380	111834	173006
3	-3665850	-3637210	607625	562165
4	~	-3830330	~	-193118
5	-3798360	-3915620	~	-85290.8
6	-3751000	-3694730	47356.2	220896
7	-3793120	-4198430	-42113.5	-503703
8	-4230850	-4323820	-437732	-125387
9	-4289470	-3404660	-58619	919154

A.24 Pengujian 6.2.2

Bit *watermark* masukan : 1000101011100

Bit *watermark* keluaran : 1010101101001

Tabel A.24. Data proses decoding pengujian 6.2.2

Segmen ke	Data magnituda total per segmen		Data perbandingan dua segmen terdekat	
	Origin	Watermarked	Origin	Watermarked
1	-4385310	-4372120	-	-
2	-4273470	-4193080	111834	179038
3	-3665850	-3630270	607625	562816
4	~	-3831290	~	-201026
5	-3798360	-3906800	~	-75511
6	-3751000	-3729080	47356.2	177724
7	-3793120	-4177810	-42113.5	-448730
8	-4230850	-4345930	-437732	-168125
9	-4289470	-3443390	-58619	902538
10	-3484860	-3435130	804607	8269.66
11	-3384880	-3233920	99980	201208
12	-3303760	-3297320	81125.9	-63401.8
13	-3133430	-3542100	170322	-244785
14	-3387420	-3435290	-253982	106810