

OV7660 Setting

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Overview

1.2 Initialization

```
42 12 80
;Insert 5ms delay here
42 11 81
42 92 00
42 93 00
42 9d 4c
42 9e 3f
42 3b 02
42 13 f0
42 10 00
42 00 00
42 01 80
42 02 80
42 13 f5
42 12 00
42 04 00
42 18 01
42 17 13
42 32 92
42 19 02
42 1a 7a
42 03 00
42 0e 84
42 0f 62
42 15 02
42 16 02
42 1b 01
42 1e 01
42 29 20 ;3c for external regulator
42 33 00
42 34 07
42 35 84
42 36 00
42 38 13
42 39 43
42 3a 00
42 3c 6c
42 3d 90
```



```
42 3f 29
42 40 c1
42 41 20
42 6b 0a
42 a1 c8
42 69 80
42 43 f0
42 44 10
42 45 78
42 46 a8
42 47 60
42 48 80
42 59 ba
42 5a 9a
42 5b 22
42 5c b9
42 5d 9b
42 5e 10
42 \ 5f \ e0
42 60 85 ;05 for advanced AWB
42 61 60
42 9f 9d
42 a0 a0
42 4f 66
42 50 6b
42 51 05
42 52 19
42 53 40
42 54 59
42 55 40
42 56 40
42 57 40
42 58 0d
42 8b cc
42 8c cc
42 8d cf
42 6c 40
42 6d 30
42 6e 4b
42 6f 60
42 70 70
42 71 70
42 72 70
42 73 70
42 74 60
42 75 60
42 76 50
42 77 48
42 78 3a
42 79 2e
42 7a 28
42 7b 22
42 7c 04
```



1.3 Light Frequency

1.3.1 50Hz

42 92 66

42 13 F7

1.3.2 60Hz

42 92 00

1.4 Brightness

1.4.1 Brightness -3

42 0f 6a

42 24 50

42 25 40

42 27 a0

42 28 a0

42 2c a0

1.4.2 Brightness -2

42 0f 6a

42 24 60

42 25 50

42 27 90 42 28 90

42 2c 90

1.4.3 Brightness -1

42 0f 6a

42 24 70

42 25 60

42 27 88

42 28 88



42 2c 88

1.4.4 Brightness 0 (Default)

42 0f 6a

42 24 80

42 25 70

42 27 80

42 28 80

42 2c 80

1.4.5 Brightness 1

42 Of 6a

42 24 90

42 25 80

42 27 20

42 28 20

42 2c 20

1.4.6 Brightness 2

42 Of 6a

42 24 a0

42 25 90

42 27 40

42 28 40

42 2c 40

1.4.7 Brightness 3

42 0f 6a

42 24 b0

42 25 a0

42 27 60

42 28 60

42 2c 60

1.5 Saturation

1.5.1 Saturation 1.2

42 4f 9A

42 50 A1

42 51 07

42 52 26

42 53 60

42 54 86

1.5.2 Saturation 1.0 (Default)

42 4f 80

42 50 86

42 51 06



42 52 20

42 53 50 42 54 70

1.5.3 Saturation 0.8

42 4f 66

42 50 6B

42 51 05

42 52 1A

42 53 40

42 54 5A

1.5.4 Saturation 0.6

42 4f 4D

42 50 50

42 51 04

42 52 13

42 53 30

42 54 43

1.5.5 Saturation 0.4

42 4f 33

42 50 36

42 51 02

42 52 0D

42 53 20

42 54 2D

1.6 Contrast

1.6.1 Contrast -3

42 6C 20

42 6D 50

42 6E 80

42 6F C0

42 70 C0

42 71 A0

42 72 90

42 73 78

42 74 78

42 75 78

42 76 40

42 77 20 42 78 20

42 78 20 42 79 20

42 7A 1E

42 7B 09

42 7C 02

42 7D 07

42 7E 17

42 7F 47



42 80 5F

42 81 73

42 82 85

42 83 94

42 84 A3

42 85 B2

42 86 C2

42 87 CA

42 88 DA 42 89 EA

42 8A F9

1.6.2 Contrast -2

42 7C 04

42 7D 07

42 7E 1f

42 7F 49

42 80 5a

42 81 6a

42 82 79

42 83 87

42 84 94

42 85 9f

42 86 af

42 87 bb

42 88 cf

42 89 df

42 8A ee 42 6C 20

42 6D 50

 $42\;6\mathrm{E}\;c0$

42 6F a8

42 70 88

42 71 80

42 72 78

42 73 70 42 74 68

42 75 58

42 76 40

42 77 30

42 78 28

42 79 20

42 7A 1e

42 7B 18

1.6.3 Contrast -1

42 7C 02

42 7D 06

42 7E 16

42 7F 3A

42 80 4C

42 81 5C 42 82 6A



1.6.4 Contrast 0 (Default)

42 79 2E 42 7A 28



42 7B 22

1.6.5 Contrast +1

42 7C 04

42 7D 09

42 7E 13

42 7F 29

42 80 35

42 81 41

42 82 4D

42 83 59

42 84 64

42 85 6F

42 86 85

42 87 97

42 88 B7

42 89 CF

42 8A E3

42 6C 40

42 6D 50

42 6E 50

42 6F 58 42 70 60

42 71 60

42 72 60

42 73 60

42 74 58

42 75 58

42 76 58

42 77 48

42 78 40

42 79 30

42 7A 28

42 7B 26

1.6.6 Contrast +2

42 7c 05

42 7d 0b

42 7e 16

 $42\ 7f\ 2c$

42 80 37

42 81 41

42 82 4b 42 83 55

42 84 5f

42 85 69

42 86 7c

42 87 8f

42 88 b1

42 89 cf 42 8a e5

42 6c 50

42 6d 60

42 6e 58



42 6f 58

42 70 58

42 71 50

42 72 50

42 73 50

42 74 50

42 75 50

42 76 4c

42 77 4c

42 78 45

42 79 3c

42 7a 2c

42 7b 24

1.6.7 Contrast +3

42 7c 04

42 7d 09

42 7e 14

42 7f 28

42 80 32

42 81 3C 42 82 46

42 83 4F

42 84 58

42 85 61

42 86 73

42 87 85 42 88 A5

42 89 c5

42 8a DD

42 6c 40

42 6d 50

42 6e 58

42 6f 50

42 70 50

42 71 50

42 72 50

42 73 50

42 74 48 42 75 48

42 76 48

42 77 48

42 78 40

42 79 40

42 7a 30

42 7b 2E

1.7 Special Effects

1.7.1 Normal (Default)

42 3a 00

42 67 80

42 68 80



1.7.2 Sepia

42 3a 10

42 67 40

42 68 a0

1.7.3 Antique

42 3a 10

42 67 40

42 68 b0

1.7.4 Bulish

42 3a 10

42 67 c0

42 68 80

1.7.5 Greenish

42 3a 10

42 67 40

42 68 40

1.7.6 Reddish

42 3a 10

42 67 80

42 68 C0

1.7.7 Negative

42 3a 20

42 67 80

42 68 80

1.7.8 Black/white

42 3a 10

42 67 80

42 68 80

1.7.9 Black/White Negative

42 3a 30

42 67 80

42 68 80

1.8 Light Environment

1.8.1 50Hz

42 2a 0



42 2b 9d

1.8.2 60Hz

42 2a 0

42 2b 0

1.9 Light Conditions

1.9.1 Auto

Saturation = 1.0

Brightness = 0

Contrast = 0

Register Setting

42 14 2e

42 18 00

42 17 02

42 3f 2a

42 41 20

42 a1 c0

1.9.2 Sunny

Saturation = 1.0

Brightness = 0

Contrast = 0

Register Setting

42 14 1e

42 18 00

427 02

 $42f\,2a$

42 41 20

42 a1 c0

1.9.3 Cloudy

Saturation = 1.0

Brightness = 0

Contrast = 0

Register Setting

42 14 1e

42 18 00

42 17 02

42f 2a

421 20 421 c0

1.9.4 Office

Saturation = 1.0

Brightness = 0

Contrast = 0 Register Setting

424 2e

4200

427 02

42f 2a



421 20 421 c0

1.9.5 Home

Saturation = 1.0Brightness = 0Contrast = 0Register Setting 424 2e 428 00 427 02 42f 2a 421 20 421 c8

1.9.6 Night

42 41 00

42 a1 c8