Decimator Design MD-QUAD 1-4 Channel SDI Multi Viewer Instruction Manual

Contents

Decimator Design MD-QUAD 1-4 Channel SDI Multi Viewer

Product Information

Specifications:

- **Product Name:** MD-QUAD
- **Version:** 3
- **Channels:** 1 to 4 (3G/HD/SD)-SDI Multi-Viewer / Quad-Split
- **Outputs:** SDI and HDMI
- **Firmware Version:** 2.0

Product Usage Instructions

Power LED Settings:
Use the rotary to select the menu and press the button to toggle the setting. The Power LED will change to Red when settings are changed and back to Green when saved. Defaults are highlighted.

Input Status:
For all Menu Subsets when Rotary = 0, the Input Status is displayed as follows:

- **Input 1 Format Detect:** None, SD, HD
- **Input 2 Format Detect:** None, SD, HD
- **Input 3 Format Detect:** None, SD, HD
- **Input 4 Format Detect:** None, SD, HD

HDMI Output Type:
Menu Subset = 0/Rotary = 2. HDMI Output Type LED settings for different output options.

FAQ:

- **Q: Where can I download the latest USB Control Software and Specifications?**
  A: You can download the software and specifications for this product at www.decimator.com.

FIRMWARE VERSION 2.0 SETTINGS

Please note:
MD-QUAD 3 hardware has serial numbers starting with MQC.

- The latest USB Control Software and Specifications for this product can be downloaded at: www.decimator.com.
- Use the rotary to select the menu and press the button to toggle the setting.
- When the settings are changed the Power LED will change to Red and change back to Green when they are saved.
- Defaults are highlighted.

For all Menu Subsets when Rotary = 0. Input Status (Button is disabled)

		LED Status			
LED	**Description**	**Off**	**Green**	**Red**	**Orange**
1	Input 1 Format Detect	None	SD	HD	3G
2	Input 2 Format Detect	None	SD	HD	3G
3	Input 3 Format Detect	None	SD	HD	3G
4	Input 4 Format Detect	None	SD	HD	3G

For all Menu Subsets when Rotary = 1. Menu Subset

LED 1	LED 2	LED 3	LED 4	Menu Subset
Off	Off	Off	Off	0
Off	Off	Off	Green	1

Menu Subset = 0/Rotary = 2. HDMI Output Type

LED 1	LED 2	LED 3	LED 4	Output
Off	Off	Off	Off	DVI RGB 4:4:4, No audio is passed
Off	Off	Off	Green	HDMI RGB 4:4:4, 2 Audio channels passed
Off	Off	Green	Off	HDMI YCbCr 4:4:4, 2 Audio channels passed
Off	Off	Green	Green	HDMI YCbCr 4:2:2, 2 Audio channels passed
Off	Green	Off	Off	HDMI RGB 4:4:4, 8 Audio channels passed
Off	Green	Off	Green	HDMI YCbCr 4:4:4, 8 Audio channels passed
Off	Green	Green	Off	HDMI YCbCr 4:2:2, 8 Audio channels passed

Menu Subset = 0/Rotary = 3. Output Select

LED 1	LED 2	LED 3	LED 4	Output
Green	Green	Green	Green	Multi-View
Green	Off	Off	Off	Video Source 1
Off	Green	Off	Off	Video Source 2
Off	Off	Green	Off	Video Source 3
Off	Off	Off	Green	Video Source 4

Menu Subset = 0/Rotary = 4. Multi-View Audio Source

LED 1	LED 2	LED 3	LED 4	Output
Green	Off	Off	Off	Video Source 1
Off	Green	Off	Off	Video Source 2
Off	Off	Green	Off	Video Source 3
Off	Off	Off	Green	Video Source 4

Menu Subset = 0/Rotary = 5. Multi-View/Test-Pattern Mode Output Format

LED 1	LED 2	LED 3	LED 4	Multi-View Output Format
Off	Off	Off	Off	1. SD 720x487i59.94
Off	Off	Off	Green	2. SD 720x576i50
Off	Off	Off	Red	3. HD 1920x1080i60
Off	Off	Off	**Orange**	4. HD 1920x1080i59.94
Off	Off	Green	Off	5. HD 1920x1080i50
Off	Off	Green	Green	6. HD 1920x1080psf30
Off	Off	Green	Red	7. HD 1920x1080psf29.97
Off	Off	Green	**Orange**	8. HD 1920x1080psf25
Off	Off	Red	Off	9. HD 1920x1080psf24
Off	Off	Red	Green	10. HD 1920x1080psf23.98
Off	Off	Red	Red	11. HD 1920x1080p30
Off	Off	Red	**Orange**	12. HD 1920x1080p29.97
Off	Off	**Orange**	Off	13. HD 1920x1080p25
Off	Off	**Orange**	Green	14. HD 1920x1080p24
Off	Off	**Orange**	Red	15. HD 1920x1080p23.98
Off	Off	**Orange**	**Orange**	16. HD 1280x720p60
Off	Green	Off	Off	17. HD 1280x720p59.94
Off	Green	Off	Green	18. HD 1280x720p50
Off	Green	Off	Red	19. HD 1280x720p30
Off	Green	Off	**Orange**	20. HD 1280x720p29.97
Off	Green	Green	Off	21. HD 1280x720p25
Off	Green	Green	Green	22. HD 1280x720p24
Off	Green	Green	Red	23. HD 1280x720p23.98
Off	Green	Green	**Orange**	24. 3G 1920x1080p60
Off	Green	Red	Off	25. 3G 1920x1080p59.94
Off	Green	Red	Green	26. 3G 1920x1080p50

Menu Subset = 0/Rotary = 6. Multi-View Windows

LED 1	LED 2	LED 3	LED 4	Multi-View Windows
Off	Off	Off	Green	1
Off	Off	Green	Off	2
Off	Off	Green	Green	3
Off	Green	Off	Off	4

Menu Subset = 0/Rotary = 7. Multi-View Layout

LED 1	LED 2	LED 3	LED 4	Description
Off	Off	Off	Off	1. 100% of Screen Size
Off	Off	Off	Green	2. 100% of Screen Size with Border
Off	Off	Off	Red	3. 90% of Screen Size
Off	Off	Off	**Orange**	4. 90% of Screen Size with Border
Off	Off	Green	Off	5. 100% of Screen Size with Gap
Off	Off	Green	Green	6. 100% of Screen Size with Border and Gap
Off	Off	Green	Red	7. 90% of Screen Size with Gap
Off	Off	Green	**Orange**	8. 90% of Screen Size with Border and Gap
Off	Off	Red	Off	9. Custom
Off	Off	Red	Green	10. Custom
Off	Off	Red	Red	11. Custom
Off	Off	Red	**Orange**	12. Custom
Off	Off	**Orange**	Off	13. Custom
Off	Off	**Orange**	Green	14. Custom
Off	Off	**Orange**	Red	15. Custom
Off	Off	**Orange**	**Orange**	16. Custom
Off	Green	Off	Off	17. Custom
Off	Green	Off	Green	18. Custom
Off	Green	Off	Red	19. Custom
Off	Green	Off	**Orange**	20. Custom
Off	Green	Green	Off	21. Custom
Off	Green	Green	Green	22. Custom
Off	Green	Green	Red	23. Custom
Off	Green	Green	**Orange**	24. Custom
Off	Green	Red	Off	25. Custom
Off	Green	Red	Green	26. Custom
Off	Green	Red	Red	27. Custom
Off	Green	Red	**Orange**	28. Custom
Off	Green	**Orange**	Off	29. Custom
Off	Green	**Orange**	Green	30. Custom
Off	Green	**Orange**	Red	31. Top to Bottom
Off	Green	**Orange**	**Orange**	32. Left to Right

Menu Subset = 0/Rotary = 8. Select Input/s to Configure

LED 1	LED 2	LED 3	LED 4	Selected Input to configure
Off	Off	Off	Off	All inputs
Green	Off	Off	Off	Video Source 1
Off	Green	Off	Off	Video Source 2
Off	Off	Green	Off	Video Source 3
Off	Off	Off	Green	Video Source 4

Menu Subset = 0/Rotary = 9. UMD Enable for Selected Input/s

		LED Status	
LED	**Description**	**Off**	**Green**
1	UMD Enable	Off	On

LEDs 2, 3 and 4 are off.

Menu Subset = 0/Rotary = A. Audio Meter Enable for Selected Input/s

LED 1	LED 2	LED 3	LED 4	Description
Off	Off	Off	Off	Off
Off	Green	Off	Off	1 Pairs on Left
Green	Off	Off	Off	2 Pairs on Left
Off	Off	Off	Green	1 Pairs on the Right
Off	Green	Off	Green	1 Pairs on Left and Right
Green	Off	Off	Green	2 Pairs on the Left and 1 Pair on the Right
Off	Off	Green	Off	2 Pair on the Right
Off	Green	Green	Off	1 Pairs on the Left and 2 Pair on the Right
Green	Off	Green	Off	2 Pairs on the Left and 2 Pair on Right

Menu Subset = 0/Rotary = B. Audio Bar Scale

LED 1	LED 2	LED 3	LED 4	Reference Level
Off	Off	Off	Off	AES/EBU
Off	Off	Off	Green	VU
Off	Off	Green	Off	Extended VU
Off	Off	Green	Green	BBC (IEC 2a)
Off	Green	Off	Off	EBU (IEC 2b)
Off	Green	Off	Green	DIN (IEC 2b)
Off	Green	Green	Off	NORDIC (IEC 2b)

Menu Subset = 0/Rotary = C. Audio Test Signals

LED 1	LED 2	LED 3	LED 4	Audio Test Signals
Off	Off	Off	Off	Off
Off	Off	Off	Green	1kHz on Group1, Pair 1 only
Off	Off	Green	Off	Pair 1 = 1kHz Tone, Pair 2 = 500Hz Tone Pair 3 = 1kHz Broken Tone, Pair 4 = 500Hz Broken Tone
Off	Off	Green	Green	1kHz Tone on Left for Pair 1, 2, 3 & 4 1kHz Broken Tone on Right for Pair 1, 2, 3 & 4

Menu Subset = 0/Rotary = D. Test Pattern

LED 1	LED 2	LED 3	LED 4	Test Pattern
Off	Off	Off	Off	1. SMPTE HD Bars
Off	Off	Off	Green	2. Bars 100/0/100/0
Off	Off	Off	Red	3. Bars 100/0/75/0
Off	Off	Off	**Orange**	4. Bars 75/0/75/0
Off	Off	Green	Off	5. Bars 100% & Red
Off	Off	Green	Green	6. SMPTE EG 1 Bars
Off	Off	Green	Red	7. Path Equalizer & PLL
Off	Off	Green	**Orange**	8. Square on 4:3 Mon.
Off	Off	Red	Off	9. Square on 16:9 Mon.
Off	Off	Red	Green	10. 5 Step Y Staircase
Off	Off	Red	Red	11. 5-Step UV Staircase
Off	Off	Red	**Orange**	12. Y Sweep
Off	Off	**Orange**	Off	13. UV Sweep
Off	Off	**Orange**	Green	14. Y Multiburst
Off	Off	**Orange**	Red	15. UV Multiburst
Off	Off	**Orange**	**Orange**	16. Y Ramp
Off	Green	Off	Off	17. UV Ramp
Off	Green	Off	Green	18. Pluge
Off	Green	Off	Red	19. Convergence
Off	Green	Off	**Orange**	20. Tartan Bars

LED 1	LED 2	LED 3	LED 4	Test Pattern
Off	Green	Green	Off	21. 1 Field in 8 White
Off	Green	Green	Green	22. White 100%
Off	Green	Green	Red	23. White 75%
Off	Green	Green	**Orange**	24. Black
Off	Green	Red	Off	25. Red
Off	Green	Red	Green	26. Yellow
Off	Green	Red	Red	27. Green
Off	Green	Red	**Orange**	28. Blue
Off	Green	**Orange**	Off	29. Magenta
Off	Green	**Orange**	Green	30. Cyan

Off	Green	**Orange**	Red	31. Y Static X ZP/L
Off	Green	**Orange**	**Orange**	32. Y Static X ZP/H
Off	Red	Off	Off	33. Y Static Y ZP
Off	Red	Off	Green	34. Y Moving Left X ZP
Off	Red	Off	Red	35. Y Moving Right X ZP
Off	Red	Off	Orange	36. Y Moving Up Y ZP
Off	Red	Green	Off	37. Y Moving Down Y ZP
Off	Red	Green	Green	38. Y Moving Up XY ZP
Off	Red	Green	Red	39. Y Moving Down XY ZP
Off	Red	Green	**Orange**	40. Y Static C ZP
Off	Red	Red	Off	41. Y Moving In C ZP
Off	Red	Red	Green	42. Y Moving Out C ZP
Off	Red	Red	Red	43. UV Static X ZP/L
Off	Red	Red	**Orange**	44. UV Static X ZP/H
Off	Red	**Orange**	Off	45. UV Static Y ZP
Off	Red	**Orange**	Green	46. UV Moving Left X ZP
Off	Red	**Orange**	Red	47. UV Moving Right X ZP
Off	Red	**Orange**	**Orange**	48. UV Moving Up Y ZP
Off	**Orange**	Off	Off	49. UV Moving Down Y ZP
Off	**Orange**	Off	Green	50. UV Moving Up XY ZP
Off	**Orange**	Off	Red	51. UV Moving Down XY ZP
Off	**Orange**	Off	**Orange**	52. UV Static C ZP
Off	**Orange**	Green	Off	53. UV Moving In C ZP
Off	**Orange**	Green	Green	54. UV Moving Out C ZP

Menu Subset = 0/Rotary = F. Test Pattern Enable

		LED Status	
LED	**Description**	**Off**	**Green**
1	Test Pattern	Off	On

LEDs 2, 3 and 4 are off.

For all Menu Subsets when Rotary = E.
Button 1 will reset all settings to their defaults.

Menu Subset = 1/Rotary = 2. Audio Meter Style

LED 1	LED 2	LED 3	LED 4	Style
Off	Off	Green	Green	Vertical Bar and Float
Off	Off	Off	Green	Vertical Bar
Off	Off	Green	Off	Vertical Float

Menu Subset = 1/Rotary = 3. Audio Meter Reference Level

		LED Status		
LED	**Description**	**Off**	**Green**	**Red**
1	Reference Level	-20dBFS	-18dBFS	-15dBFS

LEDs 2, 3 and 4 are off.

Menu Subset = 1/Rotary = 4. On Screen Input Format Enable

		LED Status		
LED	**Description**	**Off**	**Green**	**Red**
1	On Screen Format	Off	On for 5 seconds	Always on

LEDs 2, 3 and 4 are off.

Menu Subset = 1/Rotary = 5. Multi-View Output Reference

		LED Status	
LED	**Description**	**Off**	**Green**
1	Multi-View Output Reference	Free-run	Video Source 1

LEDs 2, 3 and 4 are off.

Menu Subset = 1/MENU = 6. GPI Configuration

		LED Status	
LED	**Description**	**Off**	**Green**
1	GPI	Configuration 1	Configuration 2

LEDs 2, 3 and 4 are off.

Menu Subset = 1/MENU = 7. 3G Output Level

		LED Status	
LED	**Description**	**Off**	**Green**
1	3G Output Level	A	B

LEDs 2, 3 and 4 are off.

Menu Subset = 1 / MENU = 8, 9, A, B, C, D & F. Reserved for future use

GPI (General Purpose Inputs) Configuration 0 (Tallies)

PIN	NAME	DESCRIPTION
1	Q1_TALLY_EN	Ground pin to enable Tally on input 1
2	Q2_TALLY_EN	Ground pin to enable Tally on input 2
3	Q3_TALLY_EN	Ground pin to enable Tally on input 3
4	RX+	RS422/RS485 Positive Receive Pin
5	RX-	RS422/RS485 Negative Receive Pin
6	Q4_TALLY_EN	Ground pin to enable Tally on input 4
7	OS_TOGGLE	Ground pin to toggle outputs between quad-split and input 1, 2, 3 and 4.
8	GROUND	Use as reference ground.

Configuration 1

PIN	NAME	DESCRIPTION
1	Q1_PT_EN	Ground pin to enable pass-through of input 1 to outputs.
2	Q2_PT_EN	Ground pin to enable pass-through of input 2 to outputs.
3	Q3_PT_EN	Ground pin to enable pass-through of input 3 to outputs.
4	RX+	RS422/RS485 Positive Receive Pin
5	RX-	RS422/RS485 Negative Receive Pin
6	Q4_PT_EN	Ground pin to enable pass-through of input 4 to outputs.
7	QS_EN	Ground pin to enable Quad-Split on outputs.
8	GROUND	Use as reference ground.

SERVICE WARRANTY

Decimator Design warrants that this product will be free from defects in materials and workmanship for 36 months from the date of purchase. If this product proves to be defective within this warranty period, Decimator Design, at its discretion, will either repair the defective product without charge for parts and labour or will provide a replacement product in exchange for the defective product.

To service under this warranty, you the Customer, must notify Decimator Design of the defect before the expiration of the warranty period and make suitable arrangements for the performance of service. The Customer shall be responsible for packaging and shipping the defective product to a designated service centre nominated by Decimator Design, with shipping charges prepaid. Decimator Design shall pay for the return of the product to the Customer if the shipment is to a location within the country in which the Decimator Design service centre is located. The Customer shall be responsible for paying all shipping charges, insurance, duties, taxes, and any other charges for products returned to any other location.

This warranty shall not apply to any defect, failure or damage caused by improper use or improper or inadequate maintenance and care. Decimator Design shall not be obligated to furnish service under this warranty a) to repair damage resulting from attempts by personnel other than Decimator Design representatives to install, repair or service the product, b) to repair damage resulting from improper use or connection to incompatible equipment, c) to repair any damage or malfunction caused by the use of non-Decimator Design parts or supplies, or d) to service a product that has been modified or integrated with other products when the effect of such a modification or integration increases the time of difficulty of servicing the product.

Documents / Resources

	Decimator Design MD-QUAD 1-4 Channel SDI Multi Viewer [pdf] Instruction Manual MD-QUAD 1-4 Channel SDI Multi Viewer, MD-QUAD, 1-4 Channel SDI Multi Viewer, SDI Multi Viewer, Multi Viewer, Viewer

References

- Decimator Design
- User Manual