

HA5-12G Video Formats

Video Input - 4K/UltraHD, HD, and SD, 1x HDMI

4K/UltraHD Inputs Supported

| <i>Format</i> | <i>Frame Rate</i> | <i>Color Space</i> | <i>Sampling</i> | <i>Bit Depth</i> |
|---------------|---------------------------------|--------------------|-----------------|------------------|
| 4096x2160p | 50, 59.94, 60 | YCbCr/RGB | 4:4:4 | 8 |
| 4096x2160p | 47.95, 48, 50, 59.94, 60 | YCbCr | 4:2:2 | 8, 10, 12 |
| 4096x2160p | 23.98, 24, 25, 29.97, 30 | YCbCr | 4:2:2 | 8, 10, 12 |
| 4096x2160p | 23.98, 24, 25, 29.97, 30, YCbCr | | 4:2:0 | 8, 10, 12 |
| | 50, 59.94, 60 | | | |
| 4096x2160p | 23.98, 24, 25, 29.97, 30 | YCbCr/RGB | 4:4:4 | 8, 10, 12 |
| 3840x2160p | 50, 59.94, 60 | YCbCr/RGB | 4:4:4 | 8 |
| 3840x2160p | 23.98, 24, 25, 29.97, 30, YCbCr | | 4:2:2 | 8, 10, 12 |
| | 50, 59.94, 60 | | | |
| 3840x2160p | 23.98, 24, 25, 29.97, 30, YCbCr | | 4:2:0 | 8, 10, 12 |
| | 50, 59.94, 60 | | | |
| 3840x2160p | 23.98, 24, 25, 29.97, 30 | YCbCr/RGB | 4:4:4 | 8, 10, 12 |

2K/HD Inputs Supported

| <i>Format</i> | <i>Frame Rate</i> | <i>Color Space</i> | <i>Sampling</i> | <i>Bit Depth</i> |
|---------------|-------------------------------------|--------------------|-----------------|------------------|
| 2048x1080p | 47.95, 48, 50, 59.94, 60 | YCbCr | 4:2:2 | 8, 10, 12 |
| 2048x1080p | 23.98, 24, 25, 29.97, 30 | YCbCr | 4:2:2 | 8, 10, 12 |
| 2048x1080p | 23.98, 24, 25, 29.97, 30, YCbCr/RGB | | 4:4:4 | 8, 10, 12 |
| | 47.95, 48, 50, 59.94, 60 | | | |
| 1920x1080p | 23.98, 24, 25, 29.97, 30, YCbCr | | 4:2:2 | 8, 10, 12 |
| | 50, 59.94, 60 | | | |
| 1920x1080p | 23.98, 24, 25, 29.97, 30, YCbCr/RGB | | 4:4:4 | 8, 10, 12 |
| | 50, 59.94, 60 | | | |
| 1920x1080i | 50, 59.94, 60 | YCbCr | 4:2:2 | 8, 10, 12 |
| 1920x1080i | 50, 59.94, 60 | YCbCr/RGB | 4:4:4 | 8, 10, 12 |
| 1280x720p | 50, 59.94, 60 | YCbC | 4:2:2 | 8, 10, 12 |
| 1280x720p | 50, 59.94, 60 | YCbCr/RGB | 4:4:4 | 8, 10, 12 |

SD Inputs Supported

| <i>Format</i> | <i>Frame Rate</i> | <i>Color Space</i> | <i>Sampling</i> | <i>Bit Depth</i> |
|---------------|-------------------|--------------------|-----------------|------------------|
| 576i | 50 | YCbCr | 4:2:2 | 8, 10, 12 |
| 576i | 50 | YCbCr/RGB | 4:4:4 | 8, 10, 12 |
| 576p | 50 | YCbCr | 4:2:2 | 8, 10, 12 |
| 576p | 50 | YCbCr/RGB | 4:4:4 | 8, 10, 12 |
| 480i | 59.94 | YCbCr | 4:2:2 | 8, 10, 12 |
| 480i | 59.94 | YCbCr/RGB | 4:4:4 | 8, 10, 12 |
| 480p | 59.94 | YCbCr | 4:2:2 | 8, 10, 12 |
| 480p | 59.94 | YCbCr/RGB | 4:4:4 | 8, 10, 12 |

Video Output - 4K/UltraHD, HD, and SD, 1x BNC

4K/UltraHD Outputs Supported

1x 12G-SDI:

| <i>Format</i> | <i>Frame Rate</i> | <i>Color Space</i> | <i>Sampling</i> | <i>Bit Depth</i> |
|---------------|--------------------------|--------------------|-----------------|------------------|
| 4096x2160p | 47.95, 48, 50, 59.94, 60 | YCbCr | 4:2:2 | 10 |
| 4096x2160p | 23.98, 24, 25, 29.97, 30 | YCbCr/RGB | 4:4:4 | 10, 12 |
| 3840x2160p | 50, 59.94, 60 | YCbCr | 4:2:2 | 10 |
| 3840x2160p | 23.98, 24, 25, 29.97, 30 | YCbCr/RGB | 4:4:4 | 10, 12 |

1x 6G-SDI:

| <i>Format</i> | <i>Frame Rate</i> | <i>Color Space</i> | <i>Sampling</i> | <i>Bit Depth</i> |
|---------------|--------------------------|--------------------|-----------------|------------------|
| 4096x2160p | 23.98, 24, 25, 29.97, 30 | YCbCr | 4:2:2 | 10 |
| 3840x2160p | 23.98, 24, 25, 29.97, 30 | YCbCr | 4:2:2 | 10 |

2K/HD Outputs Supported

1x 6G-SDI:

| <i>Format</i> | <i>Frame Rate</i> | <i>Color Space</i> | <i>Sampling</i> | <i>Bit Depth</i> |
|---------------|--------------------------|--------------------|-----------------|------------------|
| 2048x1080p | 47.95, 48, 50, 59.94, 60 | YCbCr/RGB | 4:4:4 | 10, 12 |
| 1920x1080p | 47.95, 48, 50, 59.94, 60 | YCbCr/RGB | 4:4:4 | 10, 12 |

1x 3G-SDI:

| <i>Format</i> | <i>Frame Rate</i> | <i>Color Space</i> | <i>Sampling</i> | <i>Bit Depth</i> | <i>Level A/B</i> |
|---------------|--------------------------|--------------------|-----------------|------------------|------------------|
| 2048x1080p | 47.95, 48, 50, 59.94, 60 | YCbCr | 4:2:2 | 10 | A or B DL |
| 2048x1080p | 23.98, 24, 25, 29.97, 30 | YCbCr/RGB | 4:4:4 | 10, 12 | A or B DL |
| 2048x1080PsF | 23.98, 24, 25, 29.97, 30 | YCbCr/RGB | 4:4:4 | 10, 12 | A or B DL |
| 1920x1080p | 47.95, 48, 50, 59.94, 60 | YCbCr | 4:2:2 | 10 | A or B DL |
| 1920x1080p | 23.98, 24, 25, 29.97, 30 | YCbCr/RGB | 4:4:4 | 10, 12 | A or B DL |
| 1920x1080PsF | 23.98, 24, 25, 29.97, 30 | YCbCr/RGB | 4:4:4 | 10, 12 | A or B DL |
| 1920x1080i | 47.95, 48, 50, 59.94, 60 | YCbCr/RGB | 4:4:4 | 10, 12 | A or B DL |
| 1280x720p | 47.95, 48, 50, 59.94, 60 | YCbCr/RGB | 4:4:4 | 10 | A |

1x 1.5G-SDI:

| <i>Format</i> | <i>Frame Rate</i> | <i>Color Space</i> | <i>Sampling</i> | <i>Bit Depth</i> |
|---------------|--------------------------|--------------------|-----------------|------------------|
| 2048x1080p | 23.98, 24, 25, 29.97, 30 | YCbCr | 4:2:2 | 10 |
| 2048x1080PsF | 23.98, 24, 25, 29.97, 30 | YCbCr | 4:2:2 | 10 |
| 1920x1080p | 23.98, 24, 25, 29.97, 30 | YCbCr | 4:2:2 | 10 |
| 1920x1080PsF | 23.98, 24, 25, 29.97, 30 | YCbCr | 4:2:2 | 10 |
| 1920x1080i | 50, 59.94, 60 | YCbCr | 4:2:2 | 10 |
| 1280x720p | 50, 59.94, 60 | YCbCr | 4:2:2 | 10 |

SD Outputs Supported

1x SD-SDI:

| <i>Format</i> | <i>Frame Rate</i> | <i>Color Space</i> | <i>Sampling</i> | <i>Bit Depth</i> |
|---------------|-------------------|--------------------|-----------------|------------------|
| 625i | 50 | YCbCr | 4:2:2 | 10 |
| 525i | 59.94 | YCbCr | 4:2:2 | 10 |

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