

# Appendix A – Specifications

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## Video Formats

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- (4K) 4096x2160p
- (UltraHD) 3840x2160p
- (2K) 2048x1080p
- (HD) 1920x1080p
- (HD) 1920x1080i
- (HD) 1280x720p
- (SD) 720x576i
- (SD) 720x480i

## Video Input Digital

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- 4 x 3G-SDI BNC, SMPTE-259/292/424
- YCbCr 4:2:2/4:4:4
- RGB 4:4:4, SMPTE or Full level
- 8 or 10 bit
- Two Sample Interleave (2SI) or Square Division (Quadrant) source mapping

### 4 x 3Gb SDI (Level A or B-Dual Link)

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- (4K) 4096 x 2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (4K) 4096 x 2160PsF\* 23.98, 24, 25, 29.97, 30
- (UltraHD) 3840 x 2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (Ultra HD) 3840 x 2160PsF\* 23.98, 24, 25, 29.97, 30

*NOTE: PsF is Level B-Dual Link*

### 4 x 1.5Gb SDI

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- (4K) 4096 x 2160p 23.98, 24, 25, 29.97, 30
- (4K) 4096 x 2160PsF 23.98, 24, 25, 29.97, 30
- (UltraHD) 3840 x 2160p 23.98, 24, 25, 29.97, 30
- (UltraHD) 3840 x 2160PsF 23.98, 24, 25, 29.97, 30

### 2 x 3Gb SDI (Level B-Dual Stream)

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- (4K) 4096 x 2160p 23.98, 24, 25, 29.97, 30
- (4K) 4096 x 2160PsF 23.98, 24, 25, 29.97, 30
- (UltraHD) 3840 x 2160p 23.98, 24, 25, 29.97, 30
- (UltraHD) 3840 x 2160PsF 23.98, 24, 25, 29.97, 30

### 1 x 3Gb SDI (Level A or B-Dual Link)

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- (2K) 2048 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (2K) 2048 x 1080PsF 23.98, 24, 25, 29.97, 30
- (HD) 1920 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1920 x 1080PsF 23.98, 24, 25, 29.97, 30
- (HD) 1920 x 1080i 25, 29.97, 30
- (HD) 1280 x 720p\* 50, 59.94, 60

*NOTE: 1280 x 720p is Level A Only*

### 2 x 1.5Gb SDI

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- (HD) 1920 x 1080p 50, 59.94, 60

#### 1 x 1.5Gb SDI

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- (2K) 2048 x 1080p 23.98, 24, 25, 29.97, 30
- (2K) 2048 x 1080PsF 23.98, 24, 25, 29.97, 30
- (HD) 1920 x 1080p 23.98, 24, 25, 29.97, 30
- (HD) 1920 x 1080PsF 23.98, 24, 25, 29.97, 30
- (HD) 1920 x 1080i 25, 29.97, 30
- (HD) 1280 x 720p 50, 59.94, 60

#### 1 x 270Mb SDI

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- (SD) 625i 25

#### Video Output Digital

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- 1 x HDMI Type A connector\*, HDMI v1.4
- YCbCr 4:2:2/4:4:4
- YCbCr 4:2:0 (for HFR 4K/UltraHD)
- RGB 4:4:4, SMPTE or Full level
- 8 or 10 bit (4:4:4 and 4:2:0 limited to 8 bit)
- HDR Infoframe generation as defined in CTA-861.3 and HDMI v2.0a
  
- (4K) 4096 x 2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 (HFR 4:2:0 only)
- (UltraHD) 3840 x 2160p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60 (HFR 4:2:0 only)
- (2K) 2048 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1920 x 1080p 23.98, 24, 25, 29.97, 30, 50, 59.94, 60
- (HD) 1920 x 1080i 25, 29.97, 30
- (HD) 1280 x 720p 50, 59.94, 60
- (SD) 720 x 576i 25
- (SD) 720 x 480i 29.97

*NOTE: If a connected monitor doesn't support HDMI protocol the unit automatically switches to DVI protocol (which does not pass audio)*

#### HDCP Encryption

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- Not supported. By definition, SDI inputs are unencrypted.
- The HDMI specification requires HDMI monitors to support unencrypted inputs.

#### Audio Input

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- SDI embedded audio, 24-bit, 8-Channel

#### Audio Output

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- HDMI embedded audio, 24-bit, 8-Channel

#### User Controls

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- USB port used with supplied cable and Mini-Config software application to configure device via Mac or Windows.

#### Size (w x d x h)

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- 5.76" x 4.02" x 0.90" (146mm x 102mm x 23mm)

#### Weight

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- 0.55 lb (0.25 kg)

## Power

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- 5-20VDC regulated, 8 watts, power supply required, included with purchase
- AC Adapter: 100-240VAC, 50/60 Hz, universal input

## Environment

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- Safe Operating Temperature: 0 to 40 degrees C (32 to 104 degrees F)
- Safe Storage Temperature (Power OFF): -40 to 60 degrees C (-40 to 140 degrees F)
- Operating Relative Humidity: 10-90% noncondensing
- Operating Altitude: <3,000 meters (<10,000 feet)

*NOTE: For highest reliability, the mini converter relies on convection cooling instead of using a built-in fan. Therefore, when installing the unit, mount in a location where it has access to air for proper cooling. Do not stack the Hi5-4K with other mini converters.*