Extensive HD-SDI Video Signal Accessory HD-SDI Video Signal Accessories User's Manual

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This document contains preliminary information and is subject to change without notice.

The List of Configuration

| HSC 1100 (HDMI to HD-SDI Converter) | COMPONENT II |
|---|--|
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| HSC 2110 (1 to 1 Analog to HD-SDI Converter) | |
| HSC 2410 (4 to1 Analog to HD-SDI Converter) | |
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| HSR 1440 (4 In / 4 Out Repeater) | SCHOOL H ID-BOOK ID-BOOK ID-BOOK IN DOME IN SOME IN SO |
| HQS 1004 (1 In 4 Out Distributor) | |
| HFO 1100 (FO to HD-SDI Converter) | LO Piles Optio IN III Column Column III Column III Column III Column III Column Column III Colum |
| HFO 1200 (HD-SDI to FO Converter) | Derun 10-Bill III |
| Power Adapter and Cable | |

14. HD-SDI Video Signal Accessories

14.1 HSC1100

14.1.1 Introduction

• HSC 1100 is HD signal converter which converts video signal between HDMI and HD-SDI. It converts the high resolution of HDMI sources to SMPTE 292M, standard HD-SDI signal.

14.1.2 Features

- Convert HDMI to HD-SDI
- Convert HDMI and component input to HD-SDI SMPTE 292M
- Full HDMI Support Including Embedded Audio
- Equalized HDMI Input Supports Long HDMI Cables Up to 30m, 24 gauge
- HDMI v1.3 Standard
- HD-SDI SMPTE 292M Support(1080p, 1080i or 720p)
- Low Power Consumption: Free Voltage 12VDC, 1A
- Compact Size & Light Weight

14.1.3 Technical Specification

| Model | HSC 1100 |
|-------------------|---|
| lant | HDMI |
| Input | Component Input |
| | 1080p 24/25/30 |
| Input Formats | 1080i 50/60 |
| | 720p 50/60 |
| Output | HD-SDI SMPTE 292M |
| | 1080p 24/25/30 |
| Output Formats | 1080i 50/60 |
| | 720p 50/60 |
| Power Consumption | Free Voltage 12VDC, 1A |
| Dimension | 83.75mm x 31.75mm x 87.07mm / 3.35inch x 1.27 x 3.48 inch |
| HDMI Connector | HDMI Female |
| HD-SDI Connector | BNC Female |

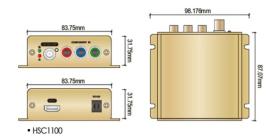
14.1.4 Unpacking

• This equipment is an electronic appliance, so it should be handled with special care.

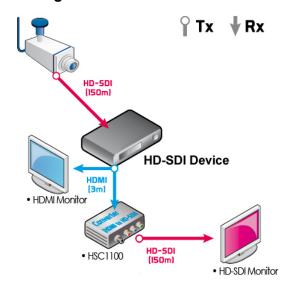
14.1.5 **Service**

• If there is any problem in the product, please refer to the supplier or the distributor with qualified service personnel.

14.1.6 System Dimension Diagram



14.1.7 System Connection Diagram



14.1.7.1 HDMI In/Out and HD-SDI In/Out Connections

- Connect a 'HDMI OUT' from the device to 'HDMI IN' of HSC 1100 using by HDMI cable.
- Connect a 'HD-SDI OUT' from HSC 1100 to 'HD-SDI IN' of HD-SDI device using by 75 ohm coaxial cable.

14.1.7.2 Video Component Input

• If users wish to link video component input (e.g. Divx, etc), assure that video component input and "COMPONENT IN" connections are connected properly with same colors.

14.1.7.3 Power Supply Connections

• Plug the power supply adapter (DC 12V, 3.33A) which is included in this product to 'DC12V' connector and plug another side to power source and Input voltage is a free volt (100 VAC ~ 240 VAC).

14.1.8 Cable

- 75 ohm coaxial cable
- HDMI cable
- Component cable

NOTE

The cables above are not included in the package.

14.1.9 **Display**

14.1.9.1 LEDs

| KEYS | | Operating mode |
|---------------------------|-----|---|
| Power LED (Red) | (1) | Light off: Converter off Light on: Converter on |
| Connection LED (Green) | E | Light off: Not connected Light on: Connected |

14.2 HSC1200

14.2.1 Introduction

• HSC 1200 is HD signal converter which converts video signal between HD-SDI and HDMI. It converts the HD-SDI video to HDMI signal.

14.2.2 Features

- Convert HD-SDI to HDMI
- Equalized HDMI input supports long HDMI cables up to 30m, 24 gauge
- HDMI v1.3 standard
- HD-SDI SMPTE 292M support(1080p, 1080i or 720p)
- Free voltage 12VDC, 1A
- Compact Size & Light weight

14.2.3 Technical Specification

| Model | HSC 1200 |
|-------------------|---|
| Input | HD-SDI SMPTE 292M |
| | 1080p 24/25/30 |
| Input Formats | 1080i 50/60 |
| | 720p 50/60 |
| 0 1: 1 | НОМІ |
| Output | HD-SDI Loop Output |
| | 1024 x 768 |
| Output Formats | 720p 60 |
| | 1080p 30/60 |
| Power Consumption | Free Voltage 12VDC, 1A |
| Dimension | 83.75mm x 31.75mm x 87.07mm / 3.35inch x 1.27 x 3.48 inch |
| HDMI Connector | HDMI Female |
| HD-SDI Connector | BNC Female |

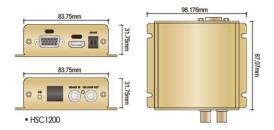
14.2.4 Unpacking

• This equipment is an electronic appliance, so it should be handled with special care.

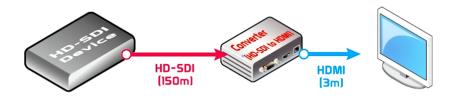
14.2.5 Service

• If there is any problem in the product, please refer servicing to a supplier or a distributor with qualified service personnel.

14.2.6 System Dimension Diagram



14.2.7 Connector Wiring



14.2.7.1 HD-SDI In/Out and HDMI In/Out Connections

- Connect a 'HD-SDI OUT' of HD-SDI device to 'HD-SDI IN' of HSC 1200 using by 750hm coaxial cable
- Connect a 'HDMI OUT' of HSC 1200 to 'HDMI IN' of device with HDMI output using by HDMI cable'

14.2.7.2 Video Component Input

• If users wish to link video component input (e.g. Divx, etc), assure that video component input and "COMPONENT IN" connections are connected properly with same colors.

14.2.7.3 Power Supply Connections

• Plug the power supply adapter (DC 12V, 3.33A) which is included in this product to 'DC12V' connector and plug another side to power source and Input voltage is a free volt (100 VAC ~ 240 VAC).

14.2.8 Cable

- 75 ohm coaxial cable
- HDMI cable
- VGA cable

NOTE

The cables above are not included in the package.

14.2.9 Operation Key and Screen Display Information

| First Digit No. | Output resolution |
|-----------------|-------------------------------|
| 1 | OUT_1024x768 |
| 2 | OUT_1280x720p_60Hz |
| 3 | OUT_1920x1080_30Hz |
| 4 | OUT_1920x1080_60Hz, (default) |
| 5 | OUT_1920x1080_60Hz_RB |

NOTE

Operation button: When operation button is pressed, output resolution is changed. Please note that the number shown in the operation button is the time that users need to press the button.

| Second Digit No. | Input resolution |
|------------------|--|
| - | No input detected |
| 1 | IN_1280x720p (max. 60 frames) |
| 2 | IN_1920x1080i(50 or 60 field) |
| 3 | IN_1920x1080p(30 frame only, doesn't support 60 frame) |

NOTE

Input resolution depends on the input signal

NOTE

Please note that this device has the same function as HD-SDI repeater that extends the signal transmission distance up to 150m.

14.3 HSC2110

14.3.1 Introduction

• HSC 2110 is video signal converter between SD to SDI. It is 1 In / 1 Out SD to SDI signal converter which will convert one analog signal to one HD-SDI signal.

14.3.2 Features

- Convert 1CH SD to 1CH HD-SDI
- NTSC/PAL Input Signal Auto Detection
- Output Signal Format 1080p 30
- Vertical Frequency Auto-Track
- PTZ control with Pelco C supporting PTZ camera
- Free Voltage 12VDC, 1A
- Compact Size & Light Weight

14.3.3 Technical Specification

| Model | HSC 2110 |
|--------------------------|------------------------------------|
| lament Ciamal | Analog Input 75Ω, 1Vp-p/BNC-F, 1CH |
| Input Signal | NTSC or PAL (Auto Detection) |
| Output Signal | HD-SDI SMPTE 292M |
| Output Format | 1080p 30 |
| Input Return Loss (BNC) | >-15dB, 270 Mb |
| Output Return Loss (BNC) | >-15dB, 1.5 Gb |
| Input Impedance (BNC) | 75 Ohms +/- 1% |
| Output Impedance (BNC) | 75 Ohms +/- 1% |
| Power Consumption | Free Voltage 12VDC, 1A |
| Dimension | 83.5mm x 31.5mm x 86.9mm |
| HD-SDI Connector | BNC Female |

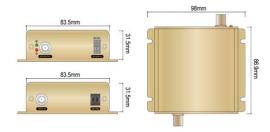
14.3.4 Unpacking

• This equipment is an electronic appliance, so it should be handled with special care.

14.3.5 **Service**

• If there is any problem in the product, please refer servicing to a supplier or a distributor with qualified service personnel.

14.3.6 System Dimension Diagram



14.3.7 Connector Wiring



14.3.7.1 1 In / 1 Out Analog to HD-SDI Connection

- Connect a 'VIDEO OUT' of analog device to 'VIDEO IN' of HSC 2110 using 750hm coaxial cable.
- Connect a 'HD-SDI OUT' of HSC 2110 to 'HD-SDI IN' of the HD-SDI DVR using 75ohm coaxial cable.



14.3.7.2 RS-485 Connection

- Connect 'Rx +/-' of the HD-SDI DVR or Keyboard Controller to 'Tx +/-' of HSC 2110.
- Connect 'VIDEO IN' of HSC 2110 to 'VIDEO OUT' of analog PTZ camera with Pelco C protocol using 75ohm coaxial cable.

NOTE

This function is ONLY supported with PTZ camera with Pelco C protocol.

NOTE

Please refer to Product Manual 4.4.2 Camera / PTZ for more information.

NOTE

Only support Camera ID 1 in Camera / PTZ Menu.

14.3.7.3 Power Supply Connection

• Plug the power supply adapter (DC 12V, 3.33A) which is included in this product to 'DC12V' connector and plug another side to power source and Input voltage is a free volt (100 VAC ~ 240 VAC).

14.3.8 PTZ Control

• User can control PTZ camera by connecting

14.3.9 Cable

- 75 ohm coaxial cable
- RS-485 connection cable.

NOTE

The cable above is not included in the package.

14.3.10 Display

14.3.10.1 LEDs

| KEYS | | Operating mode |
|---------------------------|----------|---|
| Power LED (Red) | (1) | Light off: Converter off Light on: Converter on |
| Connection LED (Green) | E | Light off: Not connected Light on: Connected |

14.4 HSC2410

14.4.1 Introduction

• HSC 2410 is video signal converter between SD to SDI. It is 4 In / 1 Out SD to SDI signal converter which will convert four analog signal to one HD-SDI signal.

14.4.2 Features

- Convert 1CH SD to 1CH HD-SDI
- NTSC/PAL Input Signal Auto Detection
- Output Signal Format 1080p 30
- Vertical Frequency Auto-Track
- Free Voltage 12VDC, 1A
- Compact Size & Light Weight

14.4.3 Technical Specification

| Model | HSC 2410 |
|--------------------------|------------------------------------|
| land O'const | Analog Input 75Ω, 1Vp-p/BNC-F, 4CH |
| Input Signal | NTSC or PAL (Auto Detection) |
| Output Signal | HD-SDI SMPTE 292M |
| Output Format | 1080p 30 |
| Input Return Loss (BNC) | >-15dB, 270 Mb |
| Output Return Loss (BNC) | >-15dB, 1.5 Gb |
| Input Impedance (BNC) | 75 Ohms +/- 1% |
| Output Impedance (BNC) | 75 Ohms +/- 1% |
| Power Consumption | Free Voltage 12VDC, 1A |
| Dimension | 103mm x 31.5mm x 88.09mm |
| HD-SDI Connector | BNC Female |

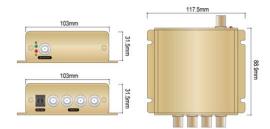
14.4.4 Unpacking

• This equipment is an electronic appliance, so it should be handled with special care.

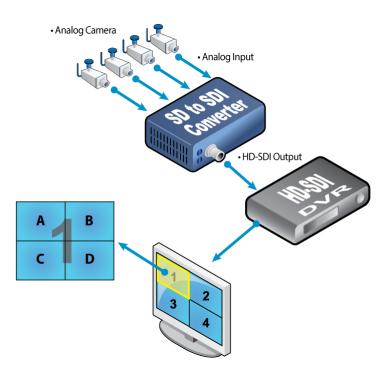
14.4.5 Service

• If there is any problem in the product, please refer servicing to a supplier or a distributor with qualified service personnel.

14.4.6 System Dimension Diagram



14.4.7 Connector Wiring



14.4.7.1 4 In / 1 Out Analog to HD-SDI Connection

- Connect 4 'VIDEO OUT' of Analog device to each of 4 'VIDEO IN' of HSC 2410 using 75ohm coaxial cables.
- Connect a 'HD-SDI OUT' of HSC 2410 to 'HD-SDI IN' of the HD-SDI DVR using 750hm coaxial cable.

14.4.7.2 Power Supply Connection

• Plug the power supply adapter (DC 12V, 3.33A) which is included in this product to 'DC12V' connector and plug another side to power source and Input voltage is a free volt (100 VAC ~ 240 VAC).

14.4.8 Cable

• 75 ohm coaxial cable

NOTEThe cable above is not included in the package.

14.4.9 **Display**

14.4.9.1 LEDs

| KEYS | | Operating mode |
|---------------------------|-----|---|
| Power LED (Red) | (1) | Light off: Converter off Light on: Converter on |
| Connection LED (Green) | Œ | Light off: Not connected Light on: Connected |

14.5 HSR1110

14.5.1 Introduction

• HSR 1110 is HD SDI repeater to extend the signal transmission distance between HD-SDI devices. The transmission distance is easily extended up to 150m and if it requires to extend longer than 150m, it needs to connect another repeater to extend the signal transmission and it will be extended up to another 150m.

14.5.2 Features

- 1 in / 1 Out HD-SDI Repeater
- HD-SDI SMPTE 292M support(1080p, 1080i,or 720p)
- 150m Extension of transmission distance
- Vertical Frequency Auto-Track(60,60/1.001)
- Low Power Consumption: Free voltage 12VDC, 1A
- Compact Size & Light weight
- Input / Output return loss : >-15dB at 1.5GBPS
- Input / Output Impedance: 75Ohms+/-1%

14.5.3 Technical Specification

| Model | HSR1110 |
|-------------------------|--|
| Input / Output Signal | 10bit HD Serial Digital Signal, SMPTE 292M, 1/4ch |
| | 1080p 24/25/30 |
| Video Format | 1080i 50/60 |
| | 720p 24/25/30/50/60 |
| Input Return Loss(BNC) | >-15 dB 270Mb-3Gb |
| Output Return Loss(BNC) | >-15 dB 270Mb-3Gb |
| Input Impedance(BNC) | 75 Ohms+/-1% |
| Output Impedance(BNC) | 75 Ohms+/-1% |
| Power Consumption | Free Voltage 12VDC, 1A |
| Dimension(WxHxD) | 83.75mm x 31.75mm x 87.07mm / 3.35inch x 1.27 inch x 3.48 inch |
| HD-SDI Connector | BNC Female |

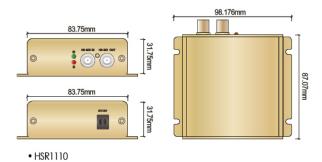
14.5.4 Unpacking

• This equipment is an electronic appliance, so it should be handled with special care.

14.5.5 Service

• If there is any problem in the product, please refer servicing to a supplier or a distributor with qualified service personnel.

14.5.6 System Dimension Diagram



14.5.7 Connector Wiring



• 1 In / 1 Out HD-SDI Repeater (HSR1110)

14.5.7.1 1 In/ 1 out HD-SDI Connections

- Connect a HD-SDI device (e.g. Camera) to 'HD-SDI IN' of HD-SDI repeater.
- Connect the HD-SDI device (e.g. DVR) to 'HD-SDI OUT' of HD-SDI repeater.

14.5.7.2 Power Supply Connections

• Plug the power supply adapter (DC 12V, 3.33A) which is included in this product to 'DC12V' connector and plug another side to power source and Input voltage is a free volt (100 VAC ~ 240 VAC).

14.5.8 Cable

• 75 ohm coaxial cable

NOTE

The cable above is not included in the package.

14.5.9 **Display**

14.5.9.1 LEDs

| KEYS | | Operating mode |
|---------------------------|-----|---|
| Power LED (Red) | (1) | Light off: Repeater off Light on: Repeater on |
| Connection LED (Green) | € | Light off: Not connected Light on: Connected |

14.6 HSR1440

14.6.1 Introduction

• HSR 1440 is HD-SDI repeater to extend the signal transmission distance between HD-SDI devices. The transmission distance is easily extended up to 150m and if it requires to extend longer than 150m, it needs to connect another repeater to extend the signal transmission and it will be extended up to another 150m.

14.6.2 Features

• 4 In / 4 Out HD-SDI Repeater

• HD-SDI SMPTE 292M Support(1080p,1080i or 720p)

Vertical Frequency Auto-Track(60,60/1.001)

• Low power Consumption: Free voltage 12VDC, 1A

• Compact Size & Light weight

• Input / Output return loss : >-15dB at 1.5GBPS

• Input / Output Impedance: 75Ohms+/-1%

14.6.3 Technical Specification

| Model | HSR1440 | |
|-------------------------|--|--|
| Input / Output Signal | 10bit HD Serial Digital Signal, SMPTE 292M, 1/4ch | |
| | 1080p 24/25/30 | |
| Video Format | 1080i 50/60 | |
| | 720p 24/25/30/50/60 | |
| Input Return Loss(BNC) | >-15 dB 270Mb-3Gb | |
| Output Return Loss(BNC) | >-15 dB 270Mb-3Gb | |
| Input Impedance(BNC) | 75 Ohms+/-1% | |
| Output Impedance(BNC) | 75 Ohms+/-1% | |
| Power Consumption | Free Voltage 12VDC, 1A | |
| Dimension(WxHxD) | 83.75mm x 31.75mm x 87.07mm / 3.35inch x 1.27 inch x 3.48 inch | |
| HD-SDI Connector | BNC Female | |

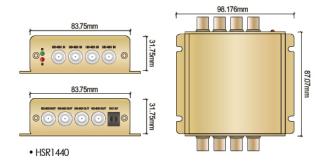
14.6.4 Unpacking

• This equipment is an electronic appliance, so it should be handled with special care.

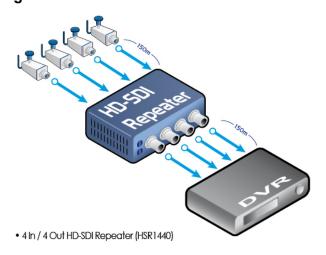
14.6.5 Service

• If there is any problem in the product, please refer servicing to a supplier or a distributor with qualified service personnel.

14.6.6 System Dimension Diagram



14.6.7 Connector Wiring



14.6.7.1 4 In/ 4 out HD-SDI Connections

- Connect a 4 HD-SDI device (e.g. Camera) to each of 4 'HD-SDI IN' of HD-SDI repeater.
- Connect the 4 HD-SDI devices (e.g. DVR) to each of 4 'HD-SDI OUT' of HD-SDI repeater.

14.6.7.2 Power Supply Connections

• Plug the power supply adapter (DC 12V, 3.33A) which is included in this product to 'DC12V' connector and plug another side to power source and Input voltage is a free volt (100 VAC ~ 240 VAC).

14.6.8 Cable

• 75 ohm coaxial cable

NOTE
The cable above is not included in the package.

14.6.9 **Display**

14.6.9.1 LEDs

| KEYS | | Operating mode |
|---------------------------|----------|---|
| Power LED (Red) | (1) | Light off: Repeater off Light on: Repeater on |
| Connection LED (Green) | E | Light off: Not connected Light on: Connected |

14.7 HQS1004

14.7.1 Introduction

• This device is HD-SDI Video distribution amplifier which has 4 separately buffered HD-SDI outputs. This model is specially designed for 75 ohm HD Digital video distribution.

14.7.2 Features

- Compact HD-SDI Video Distribution Amplifier
- 1 HD-SDI Video Input(SMPTE 292M)
- 4 Separately Buffered HD-SDI Outputs(SMPTE 292M)
- Auto Equalization
- Auto Re-clock/ Bypass Any Rate from 10KBPS through 2.97GBPS
- Low Power Consumption: Free Voltage 12VDC, 1A
- Compact Size & Light Weight
- Input / Output Return Loss : >-15 dB

14.7.3 Technical Specification

| Model | HQS 1004 | |
|---------------------------------|--|--|
| Format | 1080p, 1080i or 720p Manual Selection | |
| Video Inputs | 1 HD-SDI Input(SMPTE 292M) | |
| | 1080p 24/25/30 | |
| Input Format | 1080i 50/60 | |
| | 720p 24/25/30/50/60 | |
| Video Output | 4 HD-SDI output (SMPTE 292M) | |
| | 1080p 24/25/30 | |
| Output Format | 1080i 50/60 | |
| | 720p 24/25/30/50/60 | |
| Input / Output Return Loss(BNC) | >-15dB, 270Mb-3Gb | |
| Input / Output Impedance | 75Ohms+/-1% | |
| Power Consumption | Free Voltage 12VDC, 1A | |
| Dimension(WxHxD) | 83.75mm x 31.75mm x 87.07mm / 3.35kinch x 1.27inch | |

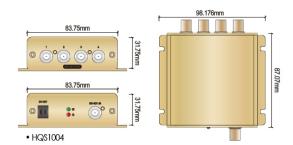
14.7.4 Unpacking

• This equipment is an electronic appliance, so it should be handled with special care.

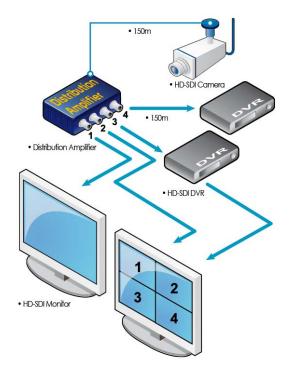
14.7.5 Service

• If there is any problem in the product, please refer to the supplier or the distributor with qualified service personnel.

14.7.6 System Dimension Diagram



14.7.7 Connector Wiring



14.7.7.1 Distribution-In/Out Connections

- Connect a 'HD-SDI OUT' of HD-SDI device (e.g. Camera) to 'HD-SDI IN' of HQS 1004 using by 75 ohm coaxial cable
- Connect 4 'HD-SDI OUT' of HQS 1004 to each 'HD-SDI IN' of HD-SDI devices (e.g. DVR).

14.7.7.2 Power Supply Connections

• Plug the power supply adapter (DC 12V, 3.33A) which is included in this product to 'DC12V' connector and plug another side to power source and Input voltage is a free volt (100 VAC ~ 240 VAC).

14.7.8 Cable

• 75 ohm coaxial cable

NOTEThe cable above is not included in the package.

14.7.9 **Display**

14.7.9.1 LEDs

| KEYS | | Operating mode | |
|---------------------------|-----|---|--|
| Power LED (Red) | (1) | Light off: Repeater off Light on: Repeater on | |
| Connection LED (Green) | E | Light off: Not connected Light on: Connected | |

Please note that this device has the same function as HD-SDI repeater that extends the signal transmission distance up to 150m.

14.8 HFO1100 & HFO1200

14.8.1 Introduction

HFO 1100 Series are HD-SDI/Fiber optic converters which enable the transmission of HD-SDI signal up to 30km. These
converters meet SMPTE 292M specification and are suitable for both indoor and outdoor use. HFO1200 receives the HDSDI signal and send the signal out through fiber optic cable. HFO 1100 receives the signal from fiber optic cable and send it
out through HD-SDI coaxial cable.

14.8.2 Features

- Transmission of HD-SDI over Single Mode Optical Fiber
- Auto-detection of Video Format
- HD-SDI Connector (SMPTE292M)
- LC Fiber Optic Connector
- Low Power Consumption: Free Voltage 12VDC, 1A
- Input / Output Return Loss : > -15dB at 1.5GBPS
- Input / Output Impedance: 75 Ohms +/- 1%
- All inputs, either SDI or Fiber, are equalized and re-clocked

14.8.3 Technical Specification

| Model | HFO1100 | HFO1200 | |
|--|--|----------------------------|--|
| Format | 3 Gb, 1.5Gb, 270Mb Auto Detect | | |
| Video Inputs | 1 LC Fiber Optic Connector 1 | HD-SDI Input(SMPTE 292M) | |
| | 1080p 24/25/30 | | |
| Input Format | 1080i 50/60 | | |
| | 720p 24/25/30/50/60 | | |
| Video Outputs | 1HD-SDI Output(SMPTE 292M) | 1 LC Fiber Optic Connector | |
| | 1080p 24/25/30 | | |
| Output Format | 1080i 50/60 | | |
| | 720p 24/25/30/50/60 | | |
| Cabla Favolization | 270mb, 460m | | |
| Cable Equalization (BNC Inputs, 1694 Coax) | 1.5Gb, 230m | | |
| (BNC Inputs, 1094 Coax) | 3Gb, 150m | | |
| Input Return Loss(BNC) | >-15dB, 270Mb-3Gb | | |
| Output Return Loss(BNC) | >-15dB,270Mb-3Gb | | |
| Input Impedance | 75Ohms+/-1% | | |
| Output Impedance(BNC) | 75Ohms+/-1% | | |
| Optical Outputs | Wavelength:13 10nm | | |
| | Output Power:-2dBm Typical | | |
| Power Consumption | Power Consumption Free Voltage 12VDC, 1A | | |
| Dimension | 83.75mm x 31.75mm x 87.0 | 7mm / 3.35kinch x 1.27inch | |

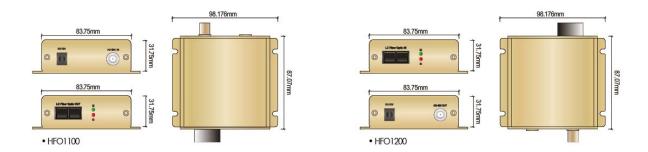
14.8.4 Unpacking

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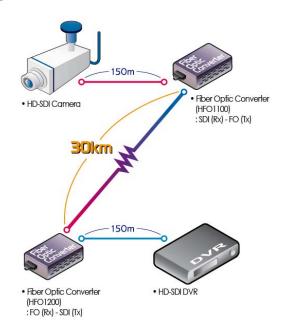
14.8.5 Service

• If there is any problem in the product, please refer to the supplier or the distributor with qualified service personnel.

14.8.6 System Dimension Diagram



14.8.7 Connector Wiring



14.8.7.1 HD-SDI in Connections

• Connect HD-SDI Camera to 'HD-SDI IN' of HFO1200 using 75 ohm coaxial cable

14.8.7.2 Fiber Optic Out Connections

• Connect the "LC Fiber Optic out" of HFO1200 which can be connected to opposite site of Fiber optic converter (HFO 1100) by using the fiber optic cable.

14.8.7.3 Fiber Optic in Connections

• Connect the fiber optic cable which is coming from the opposite site of HFO1200 to "LC Fiber Optic In" of HFO 1100.

14.8.7.4 HD-SDI out connections

• Connect the 'HD-SDI OUT' of HFO 1200 to 'HD-SDI IN' of HD-SDI device by using 750hm coaxial cable.

14.8.7.5 Power Supply Connections

• Plug the power supply adapter (DC 12V, 3.33A) which is included in this product to 'DC12V' connector and plug another side to power source and Input voltage is a free volt (100 VAC ~ 240 VAC).

14.8.8 Cable

- 75 ohm coaxial cable is needed
- Fiber Optic Cable

NOTEThe cables above are not included in the package.

14.8.9 **Display**

14.8.9.1 LEDs

| KEYS | | Operating mode |
|---------------------------|----------|---|
| Power LED (Red) | (1) | Light off: Converter off Light on: Converter on |
| Connection LED (Green) | E | Light off: Not connected Light on: Connected |