

3G-SDI/HD-SDI

Full HD CCTV Digital Solution



SMPTE-424M 2.97Gb/s
Cable/Fiber/Wireless
Megapixel Visual Image



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Concept

What is 3G-SDI?

Serial Digital Interface (SDI) is a serial link standardized by ITU-R BT.656 and the SMPTE. SDI transmits uncompressed digital video over 75-ohm coaxial cable, and been used on most professional video infrastructure equipment. Recently ratified a new standard called SMPTE 424M that doubles the SDI data rates to 2.97Gbps, which is called 3-Gbps (3G)-SDI, enables higher resolution of picture quality required for 1080p

Megapixel Visual Image 3G-SDI/HD-SDI by Cable/Fiber/Wireless

Standard	Name	Bitrates	Video Formats
SMPTE 259M	SD-SDI	270 / 360 / 143 M.bit/s, and 177 M.bit/s	480i, 576i
SMPTE 344M	ED-SDI	540 M.bit/s	480p, 576p
SMPTE 292M	HD-SDI	1.485 G.bit/s, and 1.485/1.001 G.bit/s	720p, 1080i
SMPTE 372M	Dual Link HD-SDI	2.970 G.bit/s, and 2.970/1.001 G.bit/s	1080p
SMPTE 424M	3G-SDI	2.970 G.bit/s, and 2.970/1.001 G.bit/s	1080p

POC SDI Camera

3G-SDI cameras are designed and manufactured with using POC (Power Over Coax) technology such as RG6/U; there is no need to run multiple cables to the camera location.

Non-Compression: Rather than using MPEG compression, 3G-SDI utilizes H.264 compression offering non-compress video transfer signal. That's why 3G-SDI will not show aging or delay video.



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Solution 1

3G-SDI CAMERA + RG-6/U (Max. 490ft.)

Full HD Monitor (1920x1080p)

SDI Converter



Full HD Monitor
1920x1080p



SDI Converter



RG6/U Coaxial Cable



3G-SDI CAMERA

Solution 2

Up to 8pcs 3G-SDI Cameras+ RG6/U (Max 490 ft)+ 3G-SDI DVR + Monitor



RG 6/U Coaxial



Full HD Monitor
1920x1080p

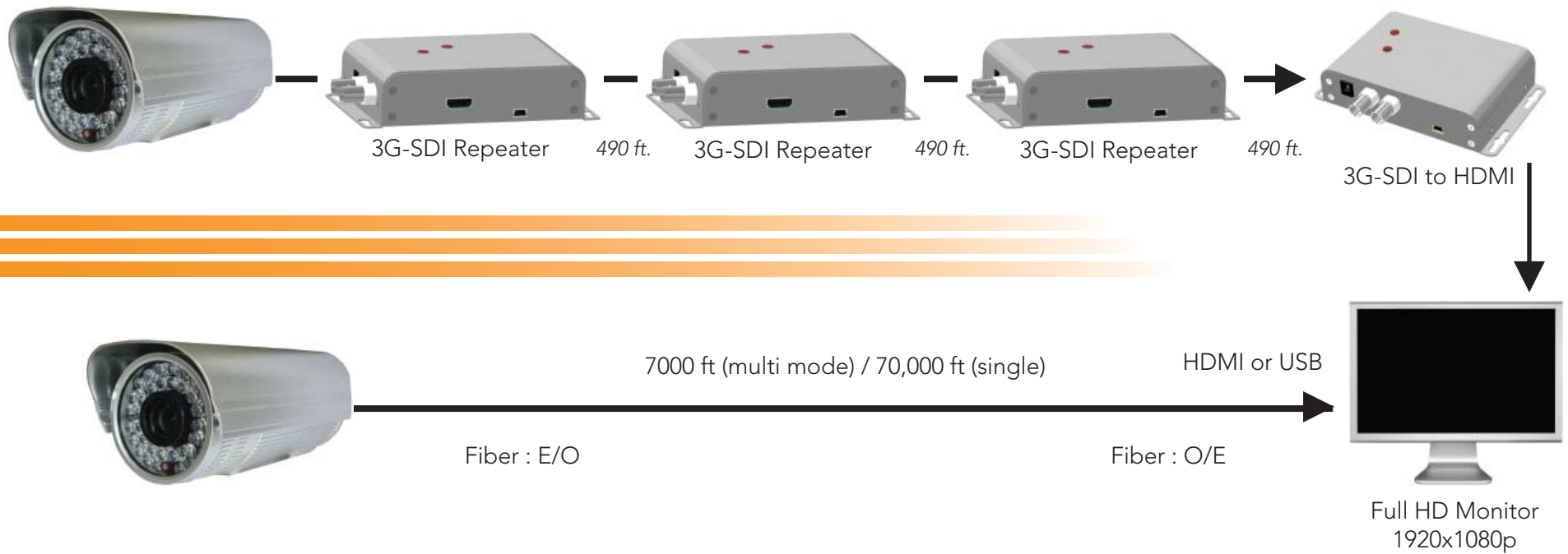


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Solution 3 (Long Distance)

2,000 ft from SDI camera to Monitor by repeater Model : SDI-R250-UBR



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3G-SDI Visual Images Series: 2 Megapixel Cameras

SDI BARBETTE IR CAMERA

SDI-B5F2M-830IR

With Mega pixel
2.5X(3.8~9.5mm)
With BT-Auto IRIS Lens



- Protected IP-66 , Weather proof
- Full High Definition: 1920 x 1080P @30fps,
High Definition: 1280 x 720 @60fps
- POC power over Cable
- 2.97 Gb/sec, SMPTE 424M
- IR LED 8 x 30pcs ,
- Megapixel Lens 2.5X (3.8~9.5mm)

SDI VANDAL DOME CAMERA

SDI-D5F2M

With Mega pixel
4mm/6mm



- Protected IP-66 , Weather proof
- Vandal Dome, Fire and impact proof
- Full High Definition: 1920 x 1080P @30fps,
High Definition: 1280 x 720 @60fps
- POC power over Cable
- 2.97 Gb/sec, SMPTE 424M
- Megapixel Lens 4mm or 6mm

SDI HOUSING IR CAMERA

SDI-H5F2M-836IR

With Mega pixel
2.5X(3.8~9.5mm)
BT-Auto IRIS Lens
(Other Lens can be



- Protected IP-55 , Weather proof
- Full High Definition: 1920 x 1080P @30fps,
High Definition: 1280 x 720 @60fps
- POC power over Cable
- 2.97 Gb/sec, SMPTE 424M
- IR LED 8 x 36pcs
- Megapixel Lens 2.5X (3.8~9.5mm)

Camera Module

SDI 12X 4A CAMERA MODULE

SDI-AFZ12X

EFL 5.2 ~58.8mm
View angle 64.1° ~ 5.8°
F/Stop F1.6 ~ F3.0
Auto Focus/IRIS/WB/ICR



- 2M (1980 X 1080) pixels sensor
- Full High Definition: 1920 x 1080P @30fps,
High Definition: 1280 x 720 @60fps
- POC power over Cable
- 2.97 Gb/sec, SMPTE 424M
- Digital Y, Cb, Cr (YC 4:2:2)
- Digital BT.1120
- 3G-SDI /HD-SDI digital output

SDI 20X 4A CAMERA MODULE

SDI-AFZ20X

EFL 4.7 ~94mm
View angle 55.4° ~ 2.9°
F/Stop F1.6 ~ F3.5
Auto Focus/IRIS/WB/ICR



- 2M (1980 X 1080) pixels sensor
- Full High Definition: 1920 x 1080P @30fps,
High Definition: 1280 x 720 @60fps
- POC power over Cable
- 2.97 Gb/sec, SMPTE 424M
- Digital Y, Cb, Cr (YC 4:2:2)
- Digital BT.1120
- 3G-SDI /HD-SDI digital output



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3G-SDI Visual Images Series:

Accessories

SDI POC POWER UNIT

SDI-COV-PWR01

Power over cable unit



- 1.485Gb, 2.97Gb/second
- SMPTE292M , 372M, 424M
- RF 5GHz BNC , 75ohm
- DC12V(Default), 1.5W
- RG6: 150M/490ft, RG59: 100M/328ft
- Power to camera and signal to monitor
- Short and spark protected

SDI CONVERTER TO USB & REPEATER

SDI-COV-R250-UB

SDI converter to USB



- Vision 1.485Gb, 2.97Gb/second
- SMPTE292M , 372M, 424M
- RF 5GHz BNC , 75ohm
- DC12V(Default), 1.5W
- USB 2.0 format
- JPEG and MPG2 , Full HD1920x1080 .. CIF

SDI CONVERTER REPEATER WITH HDMI

SDI-COV-R260-RTH

SDI Repeater function
With HDMI output



- Vision 1.485Gb, 2.97Gb/second
- SMPTE292M , 372M, 424M
- RF 5GHz BNC , 75ohm
- Repeater function
- HDMI 1920x1080p @30fps
- DC12V(Default), 2W

SDI CONVERTER REPEATER WITH HDMI & USB

SDI-COV-R260-RTHB

SDI Repeater function
With HDMI output
With USB output



- Vision 1.485Gb, 2.97Gb/second
- SMPTE292M , 372M, 424M
- RF 5GHz BNC , 75ohm
- Repeater function
- HDMI 1920x1080p @30fps
- USB 2.0 format
- JPEG and MPG2, Full HD1920x1080 .. CIF
- DC12V(Default), 2W

SDI CONVERTER TO USB

SDI-COV-R250-UB

SDI converter to USB



- Vision 1.485Gb, 2.97Gb/second
- SMPTE292M , 372M, 424M
- RF 5GHz BNC , 75ohm
- DC12V(Default), 1.5W
- USB 2.0 format
- JPEG and MPG2 , Full HD1920x1080 .. CIF

SDI CONVERTER REPEATER

SDI-COV-R260-RT

SDI Repeater function



- Vision 1.485Gb, 2.97Gb/second
- SMPTE292M , 372M, 424M
- RF 5GHz BNC , 75ohm
- Repeater function
- DC12V(Default), 1.5W

SDI CONVERTER FULL FUNCTION

SDI-COV-R270-RTH

SDI Repeater function
With HDMI output
With S(Y/C) output
With CVBS output



- Vision 1.485Gb, 2.97Gb/second
- SMPTE292M , 372M, 424M
- RF 5GHz BNC , 75ohm
- Repeater function
- HDMI 1920x1080p @60fps
- HDMI 1280x720p @60fps
- S(Y/C) output
- CVBS NTSC/PAL output
- DC5V(Default), 3.5W

FULL HD 1920x1080
UP SCALER TO 60FPS



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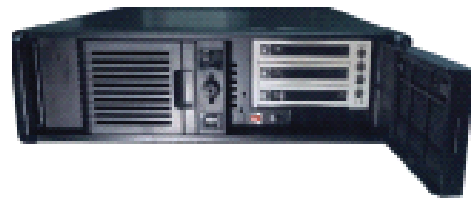
3G-SDI Visual Images Series:

Full HD DVR & CMS

3G-SDI/HD-SDI DVR

4 channel SDI DVR
Model : SDI-DRM550-04

8 channel SDI DVR
Model : SDI-DRM550-08



Easily installation over existing coaxial infrastructure.
GUI operation easily
multi-viewer: Full/1/4/9(8+none)/Swop
3G-SDI/ HD-SDI Input, HD DVR

- 4 channel SDI-DRM550-04
- Full HD: 1920 x 1080P @80fps
- High Definition: 1280 x 720 @120fps

3G-SDI/HD-SDI CMS

SDI-CMS550

multi viewer:
1/4/8/9/13/16/17/20/25
36/64/81/100/121/144 and
swop

multi DVR gather
IP group processor



- 8 channel SDI-DRM550-08
- Full HD: 1920 x 1080P @160fps
- High Definition: 1280 x 720 @240fps

- Base 4T capacitor
- 1.485 Gb/sec and 2.97 Gb/sec auto select
- SMPTE 292M , 372M, 424M format
- H.264 compressor
- Recorder : continue, motion, sensor
- Search : date, time, motion, sensor
- Playback : slow and high speed
- User : More than 32 operator
- OS : Multi-language operation system
- CMS master and client

3G-SDI SOFTWARE DETAILS

CMS	Gathering all of HD DVR over 32 users and different power level
User group	50Hz/60Hz selectable
Multi-viewer	20 25 36 64 81 100 121 144 and swop
Viewer area	Exchange by mouse selection
Screen status	Camera title, statue time date, fps
Lens correction e-map	Distortion correction Diagram of camera position



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