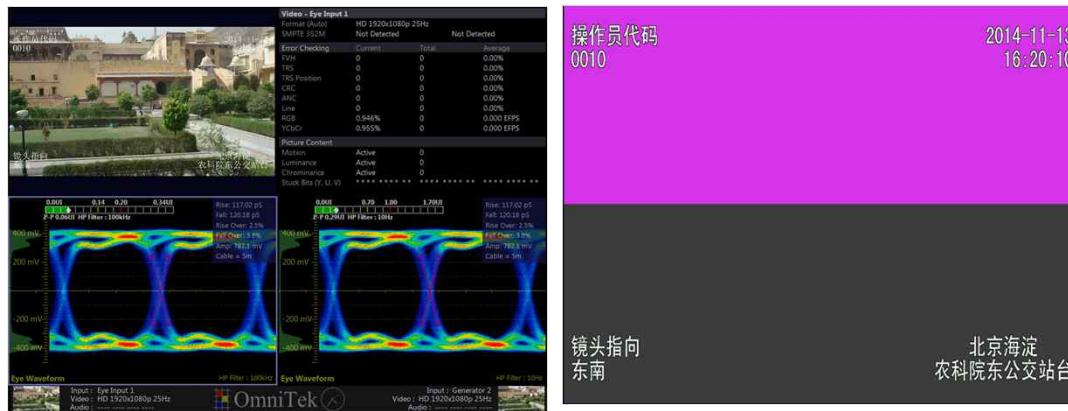


Multi Format SDI

(3G SDI/ HD-SDI/SD-SDI/EX-SDI/4K EX-SDI/VC-2)

Distribution & Character Generator



DK solutions

Multi Format SDI Video Distributor

(3G SDI/ HD-SDI/SD-SDI/EX-SDI/4K EX-SDI/VC-2)

Stand-Alone Type

PVD-S1004HD

1: 4 Multi format SDI Video Distribution



PVD-R1002HD

1 : 2 3G/HD-SDI Re-clocking Video Distribution



PVD-16S1004HD-2P

16 CHANNEL VIDEO DISTRIBUTION
3U, 16 Group (1 In, 4 Out), Built-in Dual Power



PVD-16S1004HD

16 CHANNEL VIDEO DISTRIBUTION
3U, 16 Group (1 In, 4 Out)



PVD-16S1002HD

16 CHANNEL VIDEO DISTRIBUTION
1U, 16 Group (1 In, 2 Out)



PVD-80S1002HD

80 CHANNEL VIDEO DISTRIBUTION
4U, 80 Group (1 In, 2 Out)



Multi Format SDI Video Distributor

(3G SDI/ HD-SDI/SD-SDI/EX-SDI/4K EX-SDI/VC-2)



Front



Rear

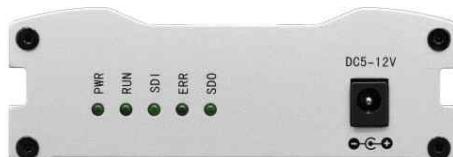


With Mount Accessory

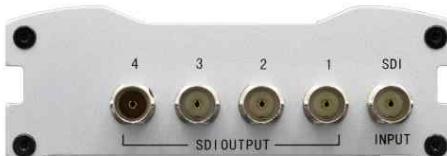


1Ch. SDI Input

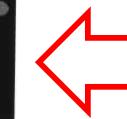
4Ch. SDI Output



Front Panel & Indicator



Rear Panel Interface



Each 3U simple rack can be inserted in 10 units of PVD-S1004HD

Front view of 4TE, 5TE flat business panel

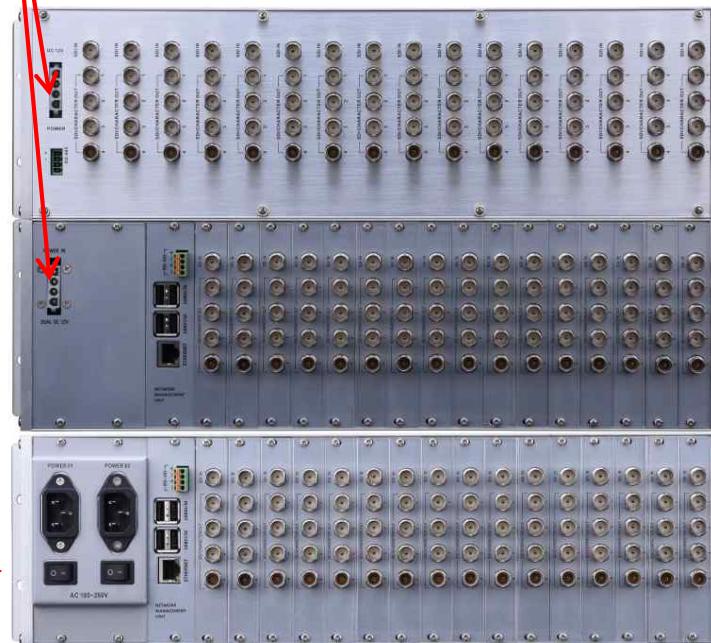


Power
In DC
12V



Rear View

Built-in Power Supply Unit





PVD-S1002HD
With Case



PVD-R1002HD
Board Type



PVD-S(R)1002HD
Modular plug-in
SDI video distributor
Board and cartridge case



Front View



Rear View





1: 4 Multi Format SDI (3G /HD/SD/EX/4K EX/VC-2) Video Distribution

PVD-S1004HD



- Multi-format Operation
(SD/HD/3G SDI/DBV-ASI/EX-SDI/4K EX-SDI/VC-2)
- SMPTE259M/ 292M/424M Standard
- 1 Input, 4 Output distribution w/ re-clocking and equalization
- 3G-SDI / HD-SDI / SD-SDI / EX-SDI /4K EX-SDI / VC-2 Signal

Auto detection

- Embedded Digital Audio
- Auto Cable equalization, relocking
- Clock recovery circuit, Effective jitter remove
- Check-field test (Pathological Code, Circle detection)
- SDI Indication LEDs

Model	PVD-S1004HD
SDI Video Input	1, BNC, 75Ω/Unbalanced
SDI Video Output	4, BNC, 75Ω/Unbalanced
Amplitude	800mVp-p ± 10%
Overshoot	10% Amplitude
Video Format	SD-SDI、HD-SDI、3G-SDI、EX-SDI、4K EX-SDI、VC-2
Video Standard	SMPTE 259M/292M/424M/DVB-ASI
Video Rate	143M、177M、270M、360M、540M、1485M、2970M
Video Resolution	SD 525i/625i HD 720p 24, 25/30, 50/60 HD 1080i 50/60 HD 1080p 24, 25/30, 50/60
Retiming	Auto retiming , Automatic identification of various rates
Equalization	Auto Equalization
Rise & Fall Time	≥0.4ns , ≤1.50ns@270Mbps , Difference less than 0.5ns ≤270ps@1.485Gbps , Difference less than 100ps ≤135ps@2.97Gbps , Difference less than 50ps
Alignment Jitter (100KHz)	≤0.2UI @270Mbps , at 1KHz ≤0.2UI @1.485Gbps , at 100KHz ≤0.3UI @2.97Gbps , at 100KHz
Timing Jitter(10Hz)	≤0.2UI @270Mbps ≤1.0UI @1.485Gbps ≤2.0UI @2.97Gbps
Auto Equalization (1694A Standard)	> 400M/SD SDI > 200M/HD SDI > 100M/3G SDI
Embaded Audio	Support, Stereo Analog audio or AES/EBU digital audio
Operating Temp.	-20°C~+70°C
Operating Humidity	0~90% , Non-condensing
Input Power	12VDC±10%
Power Consumption	Max 4W
Dimension	112x144x38mm
Led Indicator	Power, SDI, Error Code

1: 3 3G/HD-SDI Reclocking Video Distribution & 1 Ch. Analog Converter

PVD-S1003HD1SD



- Multi-format Operation(SD/HD/3G SDI/DBV-ASI)
- SMPTE259M/ 292M/424M standard
- 1 Input, 3 Output Distribution w/ Reclocking and Equalization
- 1Ch. Analog Output converter
- 3G-SDI / HD-SDI / SD-SDI Signal Auto detection
- Embedded Digital Audio
- Auto Cable equalization, re-clocking
- Clock recovery circuit, Effective jitter remove
- Checkfield test (Pathological Code, Circle detection) Pass
- HD-SDI Indication LEDs

Model	PVD-S1003HD1SD
SDI Video Input	1, BNC, 75Ω/Unbalanced
SDI Video Output	3, BNC, 75Ω/Unbalanced
Analog Video Output	1, BNC, 75Ω/Unbalanced, 1.0Vp-p/CVBS, NTSC/PAL
Amplitude	800mVp-p ± 10%
Overshoot	10% Amplitude
Video Format	SD-SDI、HD-SDI、3G-SDI
Video Standard	SMPTE 259M/292M/424M/DVB-ASI
Video Rate	143M、177M、270M、360M、540M、1485M、2970M
Video Resolution	SD 525i/625i HD 720p 24, 25/30, 50/60 HD 1080i 50/60 HD 1080p 24, 25/30, 50/60
Retiming	Auto retiming , Automatic identification of various rates
Equalization	Auto Equalization
Rise & Fall Time	≥0.4ns , ≤1.50ns@270Mbps , Difference less than 0.5ns
	≤270ps@1.485Gbps , Difference less than 100ps
	≤135ps@2.97Gbps , Difference less than 50ps
Alignment Jitter (100KHz)	≤0.2UI @270Mbps , at 1KHz
	≤0.2UI @1.485Gbps , at 100KHz
	≤0.3UI @2.97Gbps , at 100KHz
Timing Jitter(10Hz)	≤0.2UI @270Mbps
	≤1.0UI @1.485Gbps
	≤2.0UI @2.97Gbps
Auto Equalization (1694A Standard)	> 400M/SD SDI ;
	> 200M/HD SDI ;
	> 100M/3G SDI ;
Embaded Audio	Support, Stereo Analog audio or AES/EBU digital audio
Operating Temp.	-20°C~+70°C
Operating Humidity	0~90% , Non-condensing
Input Power	12VDC±10%
Power Consumption	Max 4W
Dimension	112x144x38mm
Led Indicator	Power, SDI, Error Code

16Channel (1:4) Multi Format SDI (3G /HD/SD/EX/4K EX/VC-2) Video Distribution

PVD-16S1004HD-2P



- Multi-format Operation
(SD/HD/3G SDI/DBV-ASI/EX-SDI/4K EX-SDI/VC-2)
- SMPTE259M/ 292M/424M Standard
- 16Channel(1Input, 4 Output) distribution w/ re-clocking and equalization
- 3G-SDI / HD-SDI / SD-SDI / EX-SDI /4K EX-SDI / VC-2 Signal Auto detection
- Embedded Digital Audio
- Auto Cable equalization, relocking
- Clock recovery circuit, Effective jitter remove
- Checkfield test (Pathological Code, Circle detection)
- HD-SDI Indication LEDs
- Built-in Dual Power
- 16pcs of 4TE Front Panel

Model	PVD-16S1004HD-2P
SDI Video Input	16 x 1, BNC, 75Ω/Unbalanced
SDI Video Output	16 x 4, BNC, 75Ω/Unbalanced
Amplitude	800mVp-p ± 10%
Overshoot	10% Amplitude
Video Format	SD-SDI、HD-SDI、3G-SDI、EX-SDI、4K EX-SDI、VC-2
Video Standard	SMPTE 259M/292M/424M/DVB-ASI
Video Rate	143M、177M、270M、360M、540M、1485M、2970M
Video Resolution	SD 525i/625i HD 720p 24, 25/30, 50/60 HD 1080i 50/60 HD 1080p 24, 25/30, 50/60 4K 2160p25/30 (4K EX-SDI/VC2 SDI)
Retiming	Auto retiming , Automatic identification of various rates
Equalization	Auto Equalization
Rise & Fall Time	≥0.4ns , ≤1.50ns@270Mbps , Difference less than 0.5ns
	≤270ps@1.485Gbps , Difference less than 100ps
	≤135ps@2.97Gbps , Difference less than 50ps
Alignment Jitter (100KHz)	≤0.2UI @270Mbps , at 1KHz
	≤0.2UI @1.485Gbps , at 100KHz
	≤0.3UI @2.97Gbps , at 100KHz
Timing Jitter(10Hz)	≤0.2UI @270Mbps
	≤1.0UI @1.485Gbps
	≤2.0UI @2.97Gbps
Auto Equalization (1694A Standard)	> 400M/SD SDI
	> 200M/HD SDI
	> 100M/3G SDI
Embaded Audio	Support, Stereo Analog audio or AES/EBU digital audio
Operating Temp.	-20°C~+70°C
Operating Humidity	0~90% , Non-condensing
Input Power	DC12V, 80W (PSU : PPW-3U12V5A)
Power Consumption	Max 64W
Dimension	483x148x132mm
Type of Front Panel	4TE(20mm) x 16
Led Indicator	Power, SDI, Error Code

16Channel (1:4) Multi Format SDI (3G /HD/SD/EX/4K EX/VC-2) Video Distribution

PVD-16S1004HD



- Multi-format Operation
(SD/HD/3G SDI/DBV-ASI/EX-SDI/4K EX-SDI/VC-2)
- SMPTE259M/ 292M/424M Standard
- 16Channel(1Input, 4 Output) distribution w/ re-clocking and equalization
- 3G-SDI / HD-SDI / SD-SDI / EX-SDI / 4K EX-SDI / VC-2 Signal Auto detection
- Embedded Digital Audio
- Auto Cable equalization, relocking
- Clock recovery circuit, Effective jitter remove
- Checkfield test (Pathological Code, Circle detection)
- HD-SDI Indication LEDs

Model	PVD-16S1004HD
SDI Video Input	16 x 1, BNC, 75Ω/Unbalanced
SDI Video Output	16 x 4, BNC, 75Ω/Unbalanced
Amplitude	800mVp-p ± 10%
Overshoot	10% Amplitude
Video Format	SD-SDI、HD-SDI、3G-SDI、EX-SDI、4K EX-SDI、VC-2
Video Standard	SMPTE 259M/292M/424M/DVB-ASI
Video Rate	143M、177M、270M、360M、540M、1485M、2970M
Video Resolution	SD 525i/625i HD 720p 24, 25/30, 50/60 HD 1080i 50/60 HD 1080p 24, 25/30, 50/60 4K 2160p25/30 (4K EX-SDI/VC2 SDI)
Retiming	Auto retiming , Automatic identification of various rates
Equalization	Auto Equalization
Rise & Fall Time	≥0.4ns , ≤1.50ns@270Mbps , Difference less than 0.5ns
	≤270ps@1.485Gbps , Difference less than 100ps
	≤135ps@2.97Gbps , Difference less than 50ps
Alignment Jitter (100KHz)	≤0.2UI @270Mbps , at 1KHz
	≤0.2UI @1.485Gbps , at 100KHz
	≤0.3UI @2.97Gbps , at 100KHz
Timing Jitter(10Hz)	≤0.2UI @270Mbps
	≤1.0UI @1.485Gbps
	≤2.0UI @2.97Gbps
Auto Equalization (1694A Standard)	> 400M/SD SDI
	> 200M/HD SDI
	> 100M/3G SDI
Embaded Audio	Support, Stereo Analog audio or AES/EBU digital audio
Operating Temp.	-20°C~+70°C
Operating Humidity	0~90% , Non-condensing
Input Power	12VDC±10%
Power Consumption	Max 64W
Dimension	483x148x132mm
Type of Front Panel	5TE(25.1) x 16
Led Indicator	Power, SDI, Error Code
External PSU	PFS1U(DC12V, 80W,1U, Built in Fan cooling Unit)

1: 2 Multi Format SDI (3G /HD/SD/EX/4K EX/VC-2) Video Distribution

PVD-S1002HD



- Multi-format Operation
(SD/HD/3G SDI/DBV-ASI/EX-SDI/4K EX-SDI/VC-2)
- SMPTE259M/ 292M/424M Standard
- 1 Input, 2 Output distribution w/ reclocking and equalization
- 3G-SDI / HD-SDI / SD-SDI / EX-SDI /4K EX-SDI / VC-2 Signal Auto detection
- Embedded Digital Audio
- Auto Cable equalization, relocking
- Clock recovery circuit for Effective jitter remove
- Checkfield test (Pathological Code, Circle detection) pass
- HD-SDI Indication LEDs

Model	PVD-S1002HD
SDI Video Input	1, BNC, 75Ω/Unbalanced
SDI Video Output	2, BNC, 75Ω/Unbalanced
Amplitude	800mVp-p ± 10%
Overshoot	10% Amplitude
Video Format	SD-SDI, HD-SDI, 3G-SDI, EX-SDI, 4K EX-SDI, VC-2
Video Standard	SMPTE 259M/292M/424M/DVB-ASI
Video Rate	143M, 177M, 270M, 360M, 540M, 1485M, 2970M
Video Resolution	SD 525i/625i HD 720p 24, 25/30, 50/60 HD 1080i 50/60 HD 1080p 24, 25/30, 50/60
Retiming	Auto retiming , Automatic identification of various rates
Equalization	Auto Equalization
Rise & Fall Time	≥0.4ns , ≤1.50ns@270Mbps , Difference less than 0.5ns ≤270ps@1.485Gbps , Difference less than 100ps ≤135ps@2.97Gbps , Difference less than 50ps
Alignment Jitter (100KHz)	≤0.2UI @270Mbps , at 1KHz ≤0.2UI @1.485Gbps , at 100KHz ≤0.3UI @2.97Gbps , at 100KHz
Timing Jitter(10Hz)	≤0.2UI @270Mbps ≤1.0UI @1.485Gbps ≤2.0UI @2.97Gbps
Auto Equalization (1694A Standard)	> 400M/SD SDI ; > 200M/HD SDI ; > 100M/3G SDI ;
Embaded Audio	Support, Streo Analog audio or AES/EBU digital audio
Operating Temp.	-20°C~+70°C
Operating Humidity	0~90% , Non-condensing
Input Power	12VDC±10%
Power Consumption	Max 2.5W
Dimension	40x67x16mm
Led Indicator	SDI, Error

16Channel (1 : 2) Multi Format SDI (3G /HD/SD/EX/4K EX/VC-2) Video Distribution

PVD-16S1002HD



- Multi-format Operation
(SD/HD/3G SDI/DBV-ASI/EX-SDI/4K EX-SDI/VC-2)
- SMPTE259M/ 292M/424M Standard
- 16Ch.(1 Input, 2 Output distribution w/ reclocking and equalization)
- 3G-SDI / HD-SDI / SD-SDI / EX-SDI /4K EX-SDI / VC-2 Signal Auto detection
- Embedded Digital Audio
- Auto Cable equalization, relocking
- Clock recovery circuit for Effective jitter remove
- Checkfield test (Pathological Code, Circle detection) pass
- HD-SDI Indication LEDs
- 1U, 19 Inch Rack Mount type

Model	PVD-16S1002HD
SDI Video Input	16 x 1, BNC, 75Ω/Unbalanced
SDI Video Output	16 x 2, BNC, 75Ω/Unbalanced
Amplitude	800mVp-p ± 10%
Overshoot	10% Amplitude
Video Format	SD-SDI、HD-SDI、3G-SDI. EX-SDI, 4K EX-SDI, VC-2
Video Standard	SMPTE 259M/292M/424M/DVB-ASI
Video Rate	143M、177M、270M、360M、540M、1485M、2970M
Video Resolution	SD 525i/625i HD 720p 24, 25/30, 50/60 HD 1080i 50/60 HD 1080p 24, 25/30, 50/60
Retiming	Auto retiming , Automatic identification of various rates
Equalization	Auto Equalization
Rise & Fall Time	≥0.4ns , ≤1.50ns@270Mbps , Difference less than 0.5ns
	≤270ps@1.485Gbps , Difference less than 100ps
	≤135ps@2.97Gbps , Difference less than 50ps
Alignment Jitter (100KHz)	≤0.2UI @270Mbps , at 1KHz
	≤0.2UI @1.485Gbps , at 100KHz
	≤0.3UI @2.97Gbps , at 100KHz
Timming Jitter(10Hz)	≤0.2UI @270Mbps
	≤1.0UI @1.485Gbps
	≤2.0UI @2.97Gbps
Auto Equalization (1694A Standard)	> 400M/SD SDI ;
	> 200M/HD SDI ;
	> 100M/3G SDI ;
Embaded Audio	Support, Streo Analog audio or AES/EBU digital audio
Operating Temp.	-20°C~+70°C
Operating Humidity	0~90% , Non-condensing
Input Power	12VDC±10%
Power Consumption	Max 40W
Dimension	483 x 45x67mm
Led Indicator	SDI, Error

80Channel (1 : 2) Multi Format SDI (3G /HD/SD/EX/4K EX/VC-2) Video Distribution

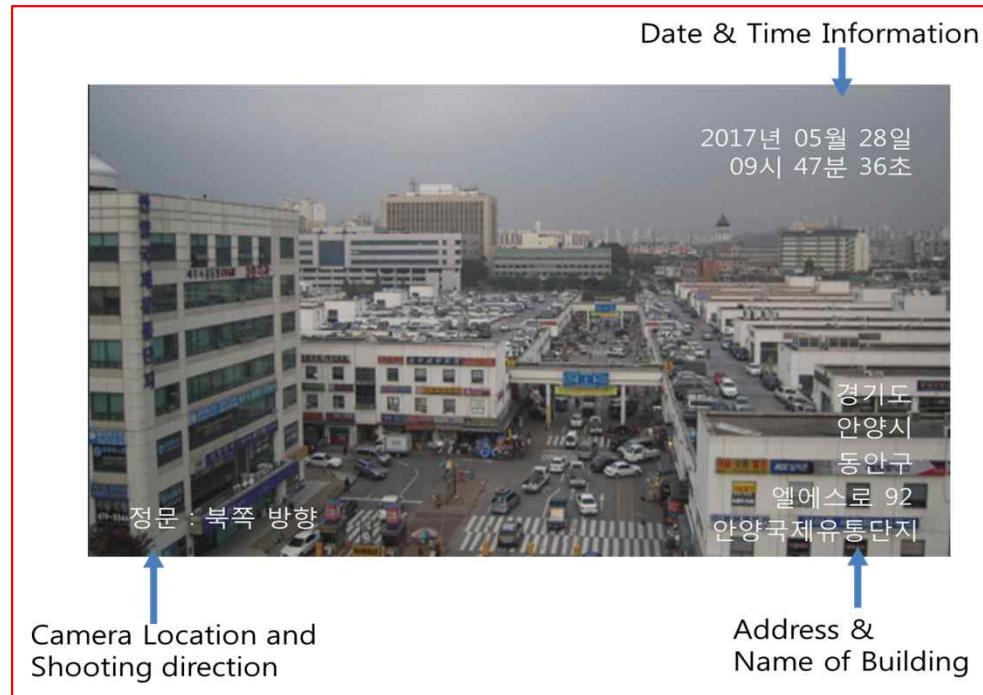
PVD-80S1002HD



- Multi-format Operation
(SD/HD/3G SDI/DBV-ASI/EX-SDI/4K EX-SDI/VC-2)
- SMPTE259M/ 292M/424M Standard
- 80Ch.(1 Input, 2 Output distribution w/ reclocking and equalization)
- 3G-SDI / HD-SDI / SD-SDI / EX-SDI / 4K EX-SDI / VC-2 Signal Auto detection
- Embedded Digital Audio
- Auto Cable equalization, relocking
- Clock recovery circuit for Effective jitter remove
- Checkfield test (Pathological Code, Circle detection) pass
- HD-SDI Indication LEDs

Model	PVD-80S1002HD
SDI Video Input	80xx 1, BNC, 75Ω/Unbalanced
SDI Video Output	80 x 2, BNC, 75Ω/Unbalanced
Amplitude	800mVp-p ± 10%
Overshoot	10% Amplitude
Video Format	SD-SDI、HD-SDI、3G-SDI、EX-SDI、4K EX-SDI、VC-2
Video Standard	SMPTE 259M/292M/424M/DVB-ASI
Video Rate	143M、177M、270M、360M、540M、1485M、2970M
Video Resolution	SD 525i/625i HD 720p 24, 25/30, 50/60 HD 1080i 50/60 HD 1080p 24, 25/30, 50/60
Retiming	Auto retiming , Automatic identification of various rates
Equalization	Auto Equalization
Rise & Fall Time	≥0.4ns , ≤1.50ns@270Mbps , Difference less than 0.5ns
	≤270ps@1.485Gbps , Difference less than 100ps
	≤135ps@2.97Gbps , Difference less than 50ps
Alignment Jitter (100KHz)	≤0.2UI @270Mbps , at 1KHz
	≤0.2UI @1.485Gbps , at 100KHz
	≤0.3UI @2.97Gbps , at 100KHz
Timing Jitter(10Hz)	≤0.2UI @270Mbps
	≤1.0UI @1.485Gbps
	≤2.0UI @2.97Gbps
Auto Equalization (1694A Standard)	> 400M/SD SDI ;
	> 200M/HD SDI ;
	> 100M/3G SDI ;
Embaded Audio	Support, Stereo Analog audio or AES/EBU digital audio
Operating Temp.	-20°C~+70°C
Operating Humidity	0~90% , Non-condensing
Input Power	12VDC±10%
Power Consumption	Max 200W
Dimension	403x67x177mm
Led Indicator	SDI, Error

3G/HD-SDI Character Generator



PCG-S1004HD

3G/ HD-SDI Real Time Text Insertion in to
3G/ HD-SDI video with 1: 4 Video
Distribution



PCG-16S1004HD-2P1C

16 Channel Text Inserter, 3U, 16 Group (1 In, 4 Out), Built-in Dual Power and communication



PCG-16S1004HD

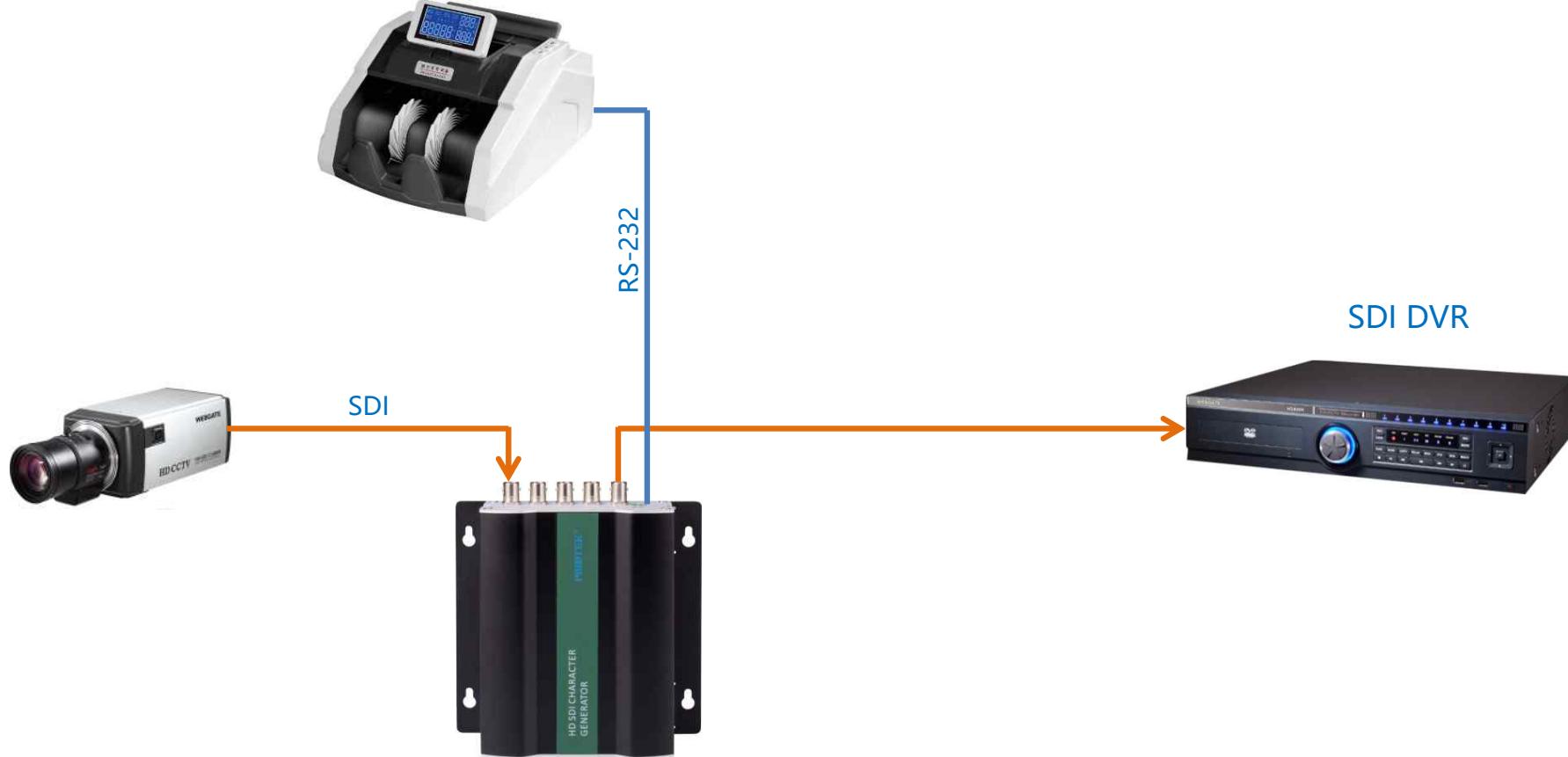
16 Channel Text Inserter, 3U, 16 Group (1 In, 4 Out), RS-485



PCG-16S1004HD-TG

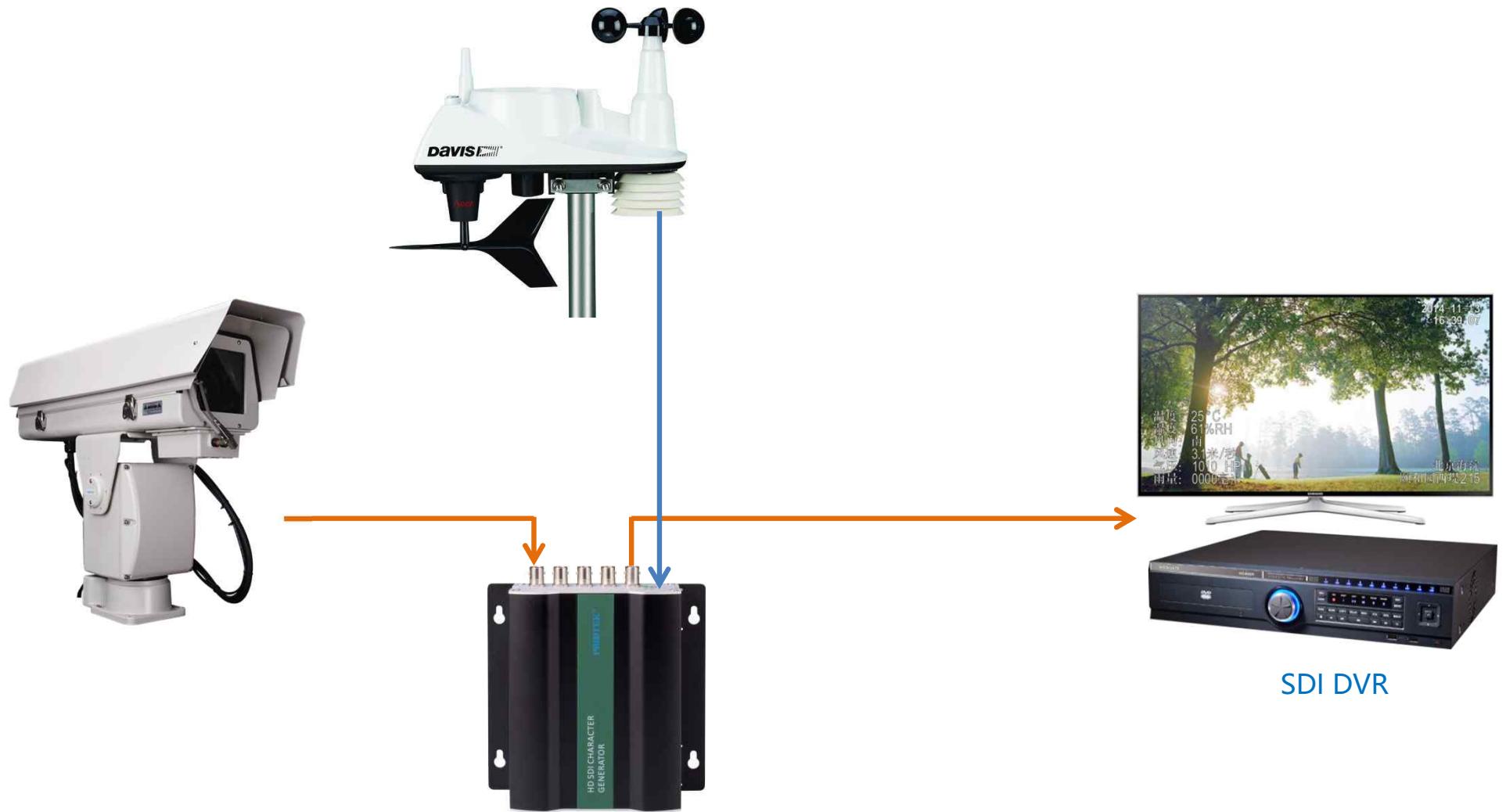
16 Channel Text Inserter, 3U, 16 Group (1 In, 4 Out), Built-in Time Generator,RS-485







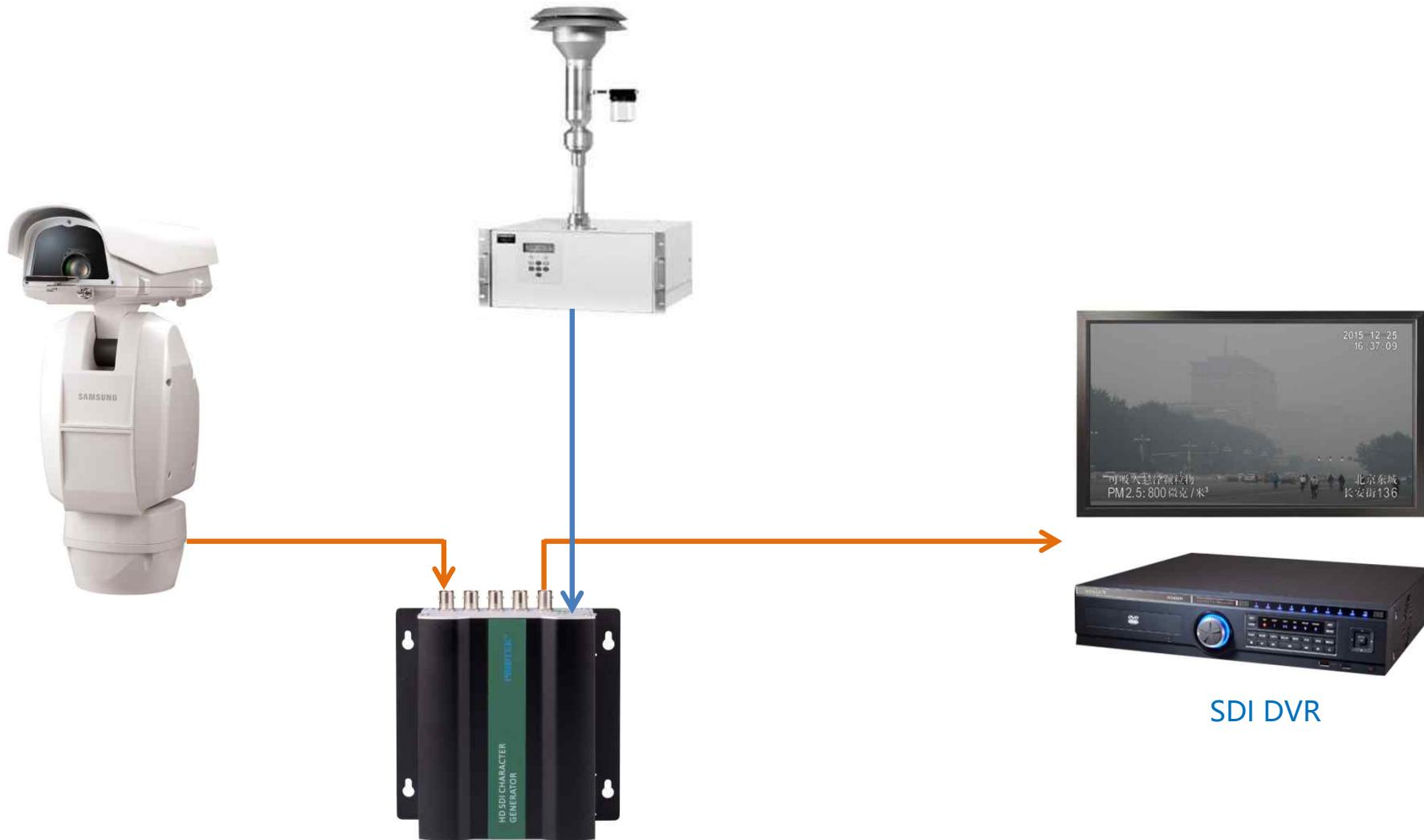
Superimpose the cash register information anywhere in the HD video image



Weather data display on SDI video:



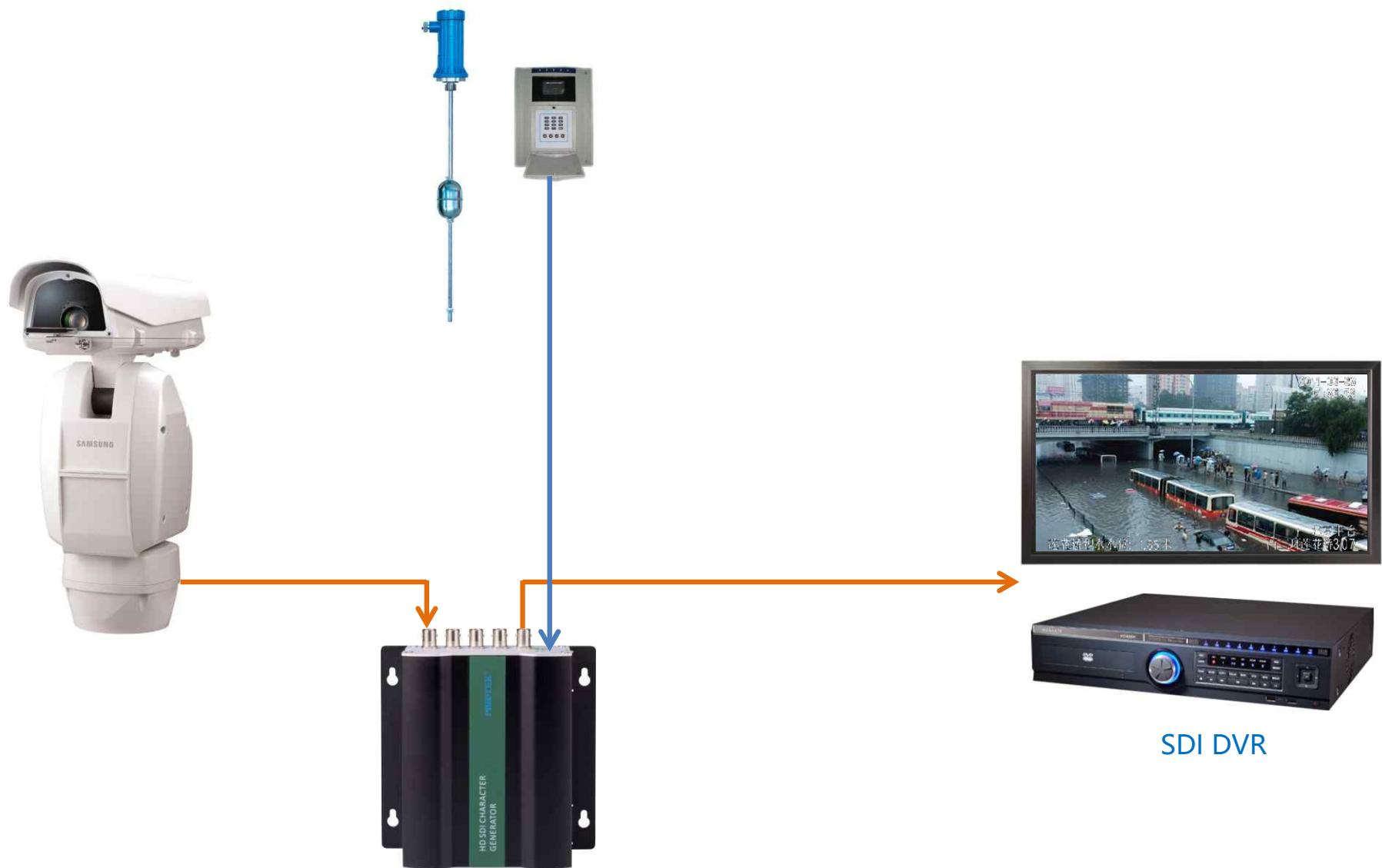
Live real-time weather data
Can be placed anywhere on the screen



2015-12-25
16 :37 :09

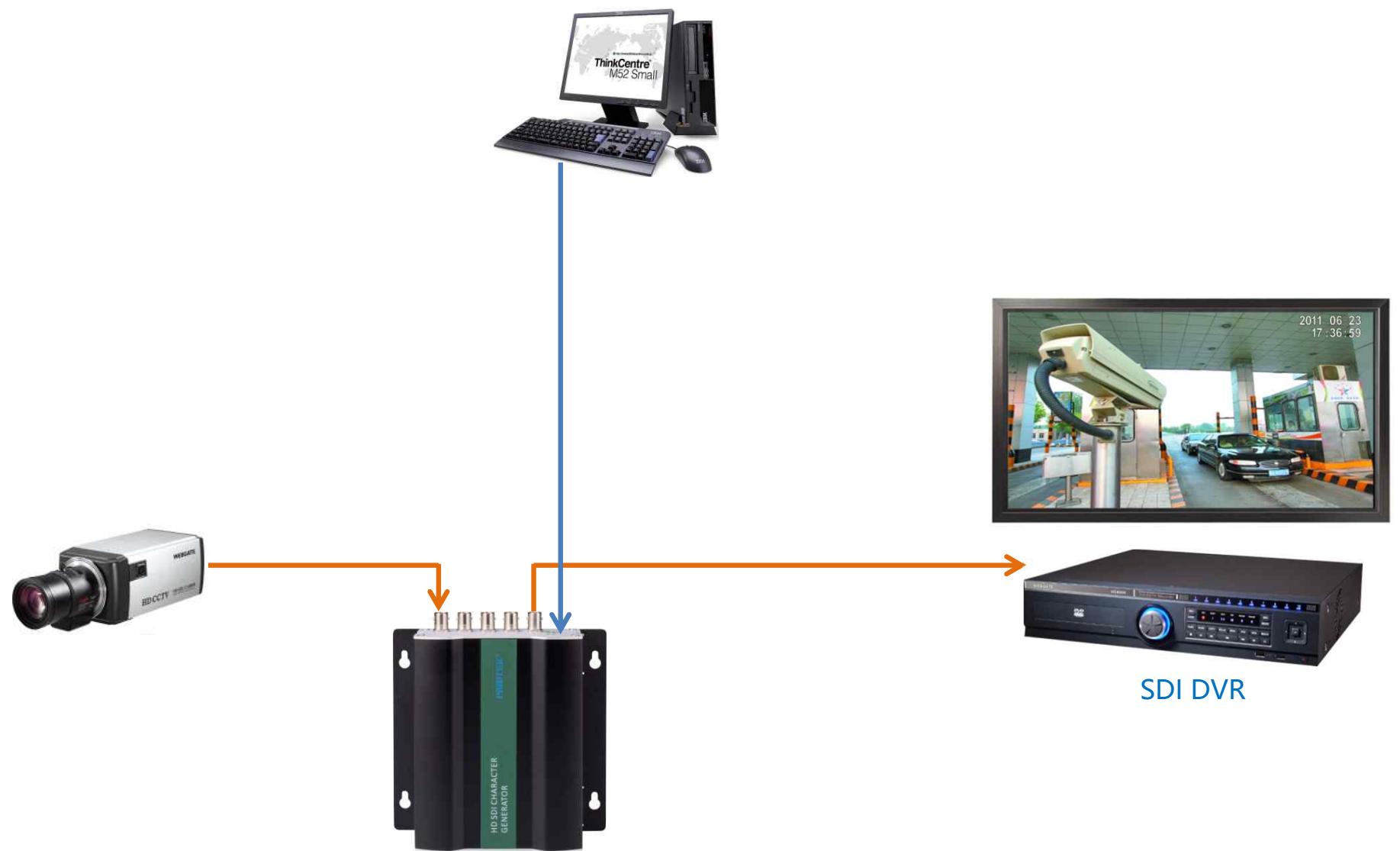


Real-time of Air quality will be displayed anywhere on the screen



2011-06-23
17 :36:59



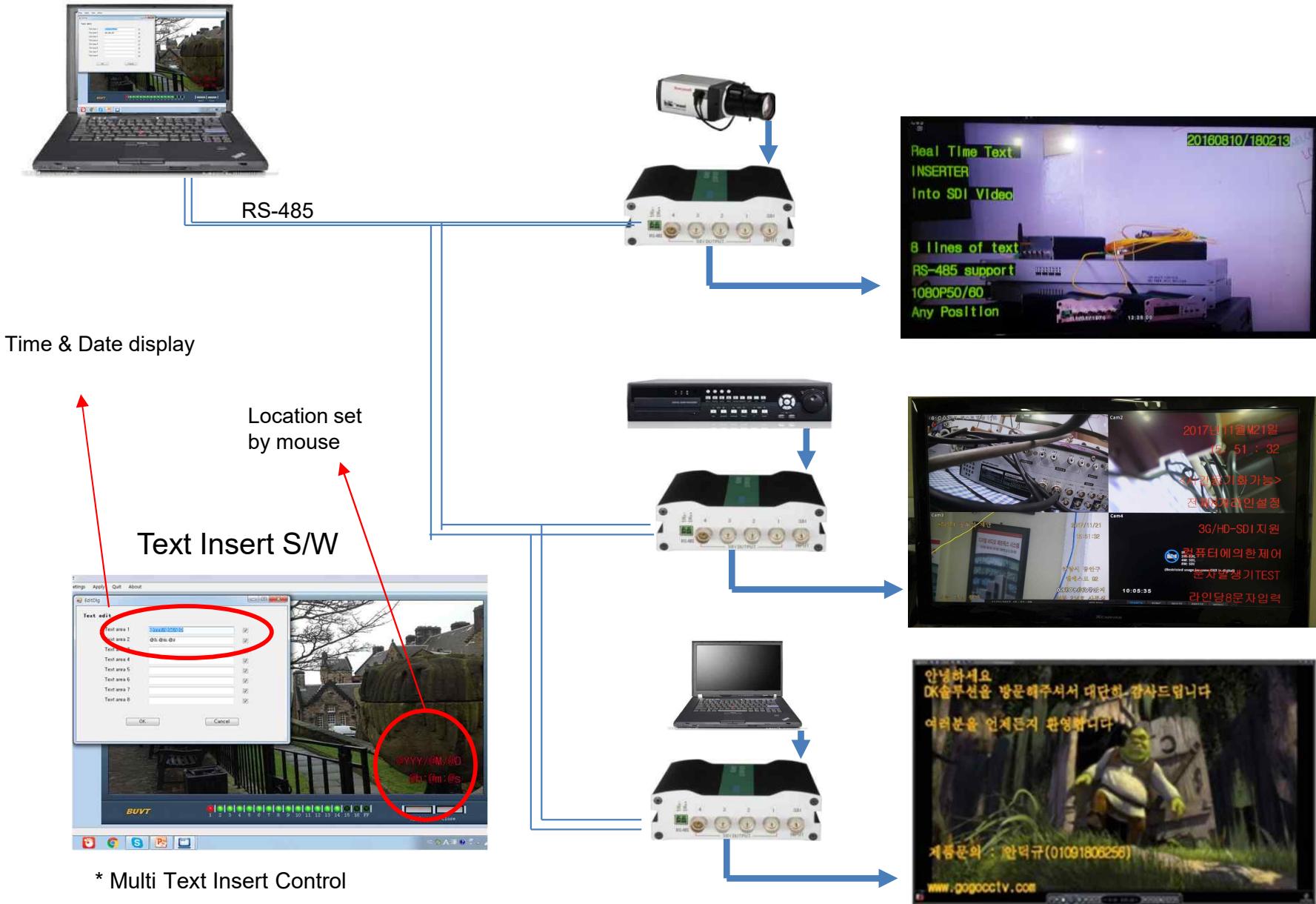


Timestamping



Vehicle real-time data
Can be placed anywhere on the screen

3G/HD-SDI Character Generator



3G HD-SDI Real Time Character Insertion in to 3G HD-SDI video and 1:4 Video Distribution

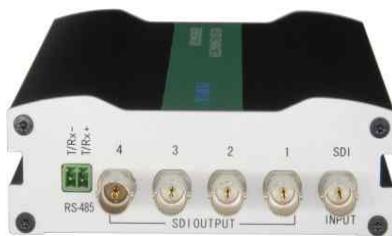
PCG-S1004HD



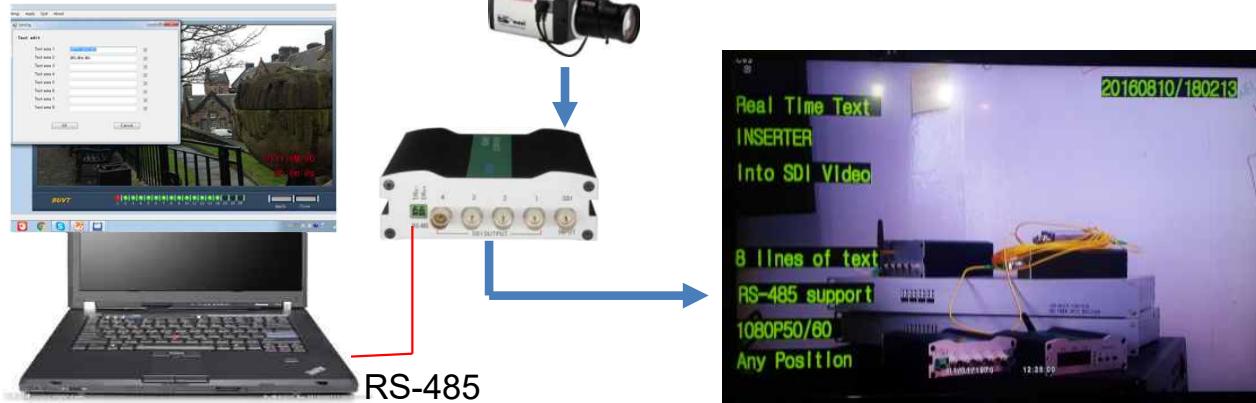
- Multi-format Operation(SD/HD/3G SDI/DBV-ASI)
- SMPTE259M/ 292M/424M standard
- 1 Input, 4 Output w/ Character
- 3G-SDI / HD-SDI / Signal Auto detection
- Embedded Digital Audio
- Text and Image Insertion
- 64x64 Dot Matrix Size Character support
- 8 Line character display at any position
- Time & Date display(Computer Time or External Time Sync generator)
- Fixed text or a dynamic display in real time(Sensor, date, counter, clock..)
- Set character position by mouse click(with free edit s/w)
- Character Edit by computer
- Color available (Character, background)
- Auto Cable equalization, re-clocking
- Clock recovery circuit, Effective jitter remove
- Checkfield test (Pathological Code, Circle detection) pass
- HD-SDI Indication LEDs

Model	PVD-S(R)1004HD
SDI Video Input	1, BNC, 75Ω/Unbalanced
SDI Video Output	4, BNC, 75Ω/Unbalanced
Character Display	English/ Chinese/ Korean, 8 Lines of text, , 64x64 dot matrix size, dynamic character display , Any position, Time&Date display , Color(Character, Backgound)
Communication	RS-485
Amplitude	800mVp-p ± 10%
Overshoot	10% Amplitude
Video Format	SD-SDI, HD-SDI, 3G-SDI
Video Standard	SMPTE 259M/292M/424M/DVB-ASI
Video Rate	143M, 177M, 270M, 360M, 540M, 1485M, 2970M
Video Resolution	SD 525i/625i HD 720p 24, 25/30, 50/60 HD 1080i 50/60 HD 1080p 24, 25/30, 50/60
Retiming	Auto retiming , Automatic identification of various rates
Equalization	Auto Equalization
Rise & Fall Time	≥0.4ns , ≤1.50ns@270Mbps , Difference less than 0.5ns ≤270ps@1.485Gbps , Difference less than 100ps ≤135ps@2.97Gbps , Difference less than 50ps
Alignment Jitter (100KHz)	≤0.2UI @270Mbps , at 1KHz ≤0.2UI @1.485Gbps , at 100KHz ≤0.3UI @2.97Gbps , at 100KHz
Timing Jitter(10Hz)	≤0.2UI @270Mbps ≤1.0UI @1.485Gbps ≤2.0UI @2.97Gbps
Auto Equalization (Belden 1694A Standard)	> 400M/SD SDI ; > 200M/HD SDI ; > 100M/3G SDI ;
Embaeded Audio	Support, Stereo Analog audio or AES/EBU digital audio
Operating Temp.	-20°C~+70°C
Operating Humidity	0~90% , Non-condensing
Input Power	12VDC±10%
Power Consumption	Max 4W
Dimension	112x144x38mm
Led Indicator	SDI, Error
Operation S/W	

PCG-S1004HD



Mount Bracket



A PC application provided with the character generator allows to easily configure the parameters as follows:

- The position of the text insertion(x and y) for each of 8 lines / The text size
- The background presence or not / The text and background color
- Position set by mouse / Time and Date sync by computer time



Modify slot interval

3U 19 Inch Rack Mount (Up to 10)

3G HD-SDI Real Time Character Insertion in to 3G HD-SDI video and 1:4 Video Distribution

PCG-16S1004HD-2P1C



- Multi-format Operation(SD/HD/3G SDI/DBV-ASI)
- SMPTE259M/ 292M/424M standard
- 16Channel(1 Input, 4 Output w/ Character)
- 3G-SDI / HD-SDI / Signal Auto detection
- Embedded Digital Audio
- Text and Image Insertion
- 64x64 Dot Matrix Size Character support
- 8 Line character display at any position
- Time & Date display(Computer Time or External Time Sync generator)
- Fixed text or a dynamic display in real time(Sensor, date, counter, clock..)
- Set character position by mouse click(with free edit s/w)
- Character Edit by computer
- Color available (Character, background)
- Auto Cable equalization, re-clocking
- Clock recovery circuit, Effective jitter remove
- Checkfield test (Pathological Code, Circle detection) pass
- HD-SDI Indication LEDs
- Built-in Dual Power

Model	PVD-16S1004HD
SDI Video Input	1, BNC, 75Ω/Unbalanced
SDI Video Output	4, BNC, 75Ω/Unbalanced
Character Display	English/ Chinese/ Korean, 8 Lines of text, , 64x64 dot matrix size, dynamic character display , Any position, Time&Date display , Color(Character, Backgound)
Communication	RS-485
Amplitude	800mVp-p ± 10%
Overshoot	10% Amplitude
Video Format	SD-SDI、HD-SDI、3G-SDI
Video Standard	SMPTE 259M/292M/424M/DVB-ASI
Video Rate	143M、177M、270M、360M、540M、1485M、2970M
Video Resolution	SD 525i/625i HD 720p 24, 25/30, 50/60 HD 1080i 50/60 HD 1080p 24, 25/30, 50/60
Retiming	Auto retiming , Automatic identification of various rates
Equalization	Auto Equalization
Rise & Fall Time	≥0.4ns , ≤1.50ns@270Mbps , Difference less than 0.5ns ≤270ps@1.485Gbps , Difference less than 100ps ≤135ps@2.97Gbps , Difference less than 50ps
Alignment Jitter (100KHz)	≤0.2UI @270Mbps , at 1KHz ≤0.2UI @1.485Gbps , at 100KHz ≤0.3UI @2.97Gbps , at 100KHz
Timing Jitter(10Hz)	≤0.2UI @270Mbps ≤1.0UI @1.485Gbps ≤2.0UI @2.97Gbps
Auto Equalization (Belden 1694A Standard)	> 400M/SD SDI ; > 200M/HD SDI ; > 100M/3G SDI ;
Embaded Audio	Support, Stereo Analog audio or AES/EBU digital audio
Operating Temp.	-20°C~+70°C
Operating Humidity	0~90% , Non-condensing
Input Power	DC12V, 80W (PSU : PPW-3U12V5A)
Communication Card	4TE, RS-485, TCP/IP(Option)
Dimension	112x144x38mm
Led Indicator	SDI, Error

3G HD-SDI Real Time Character Insertion in to 3G HD-SDI video and 1: 4 Video Distribution

PCG-16S1004HD-2P1C



Option :
Plane Front Panel

- Multi-format Operation(SD/HD/3G SDI/DBV-ASI)
- SMPTE259M/ 292M/424M standard
- 16Channel(1 Input, 4 Output w/ Character)
- 3G-SDI / HD-SDI / Signal Auto detection
- Embedded Digital Audio
- Text and Image Insertion
- 64x64 Dot Matrix Size Character support
- 8 Line character display at any position
- Time & Date display(Computer Time or External Time Sync generator)
- Fixed text or a dynamic display in real time(Sensor, date, counter, clock..)
- Set character position by mouse click(with free edit s/w)
- Character Edit by computer
- Color available (Character, background)
- Auto Cable equalization, re-clocking
- Clock recovery circuit, Effective jitter remove
- Checkfield test (Pathological Code, Circle detection) pass
- HD-SDI Indication LEDs

Model	PVD-16S1004HD
SDI Video Input	1, BNC, 75Ω/Unbalanced
SDI Video Output	4, BNC, 75Ω/Unbalanced
Character Display	English/ Chinese/ Korean, 8 Lines of text, , 64x64 dot matrix size, dynamic character display , Any position, Time&Date display , Color(Character, Backgound)
Communication	RS-485
Amplitude	800mVp-p ± 10%
Overshoot	10% Amplitude
Video Format	SD-SDI、HD-SDI、3G-SDI
Video Standard	SMPTE 259M/292M/424M/DVB-ASI
Video Rate	143M、177M、270M、360M、540M、1485M、2970M
Video Resolution	SD 525i/625i HD 720p 24, 25/30, 50/60 HD 1080i 50/60 HD 1080p 24, 25/30, 50/60
Retiming	Auto retiming , Automatic identification of various rates
Equalization	Auto Equalization
Rise & Fall Time	≥0.4ns , ≤1.50ns@270Mbps , Difference less than 0.5ns ≤270ps@1.485Gbps , Difference less than 100ps ≤135ps@2.97Gbps , Difference less than 50ps
Alignment Jitter (100KHz)	≤0.2UI @270Mbps , at 1KHz ≤0.2UI @1.485Gbps , at 100KHz ≤0.3UI @2.97Gbps , at 100KHz
Timing Jitter(10Hz)	≤0.2UI @270Mbps ≤1.0UI @1.485Gbps ≤2.0UI @2.97Gbps
Auto Equalization (Belden 1694A Standard)	> 400M/SD SDI ; > 200M/HD SDI ; > 100M/3G SDI ;
Embaded Audio	Support, Stereo Analog audio or AES/EBU digital audio
Operating Temp.	-20°C~+70°C
Operating Humidity	0~90% , Non-condensing
Input Power	DC12V, 80W (PSU : PPW-3U12V5A)
Communication Card	4TE, RS-485,
Dimension	112x144x38mm
Led Indicator	SDI, Error

3G HD-SDI Real Time Character Insertion in to 3G HD-SDI video and 1:4 Video Distribution

PCG-16S1004HD-TG

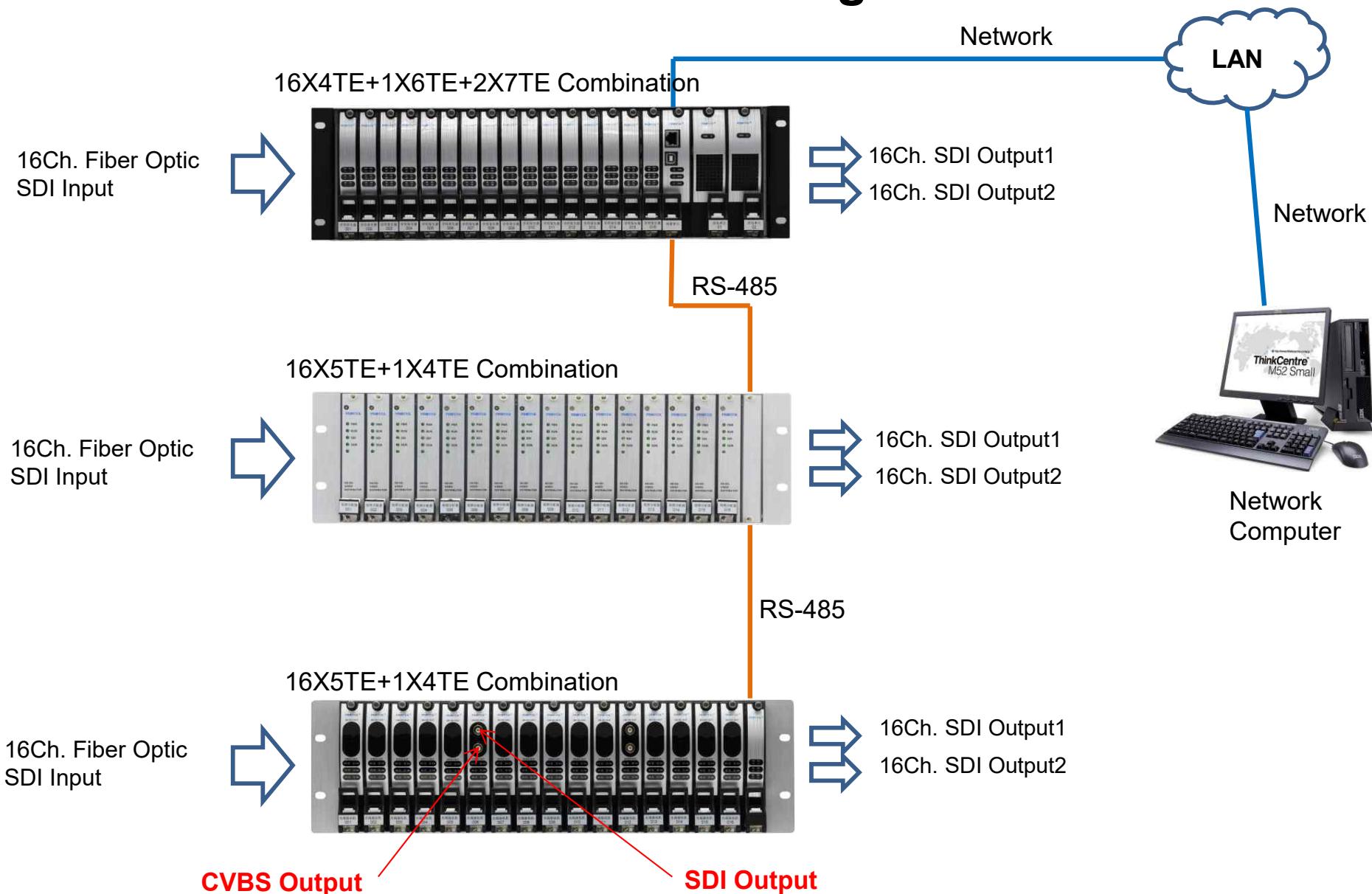


Option :
Curve Front Panel

- Multi-format Operation(SD/HD/3G SDI/DBV-ASI)
- SMPTE259M/ 292M/424M standard
- 16Channel(1 Input, 4 Output w/ Character)
- 3G-SDI / HD-SDI / Signal Auto detection
- Embedded Digital Audio
- Text and Image Insertion
- 64x64 Dot Matrix Size Character support
- 8 Line character display at any position
- Time & Date display(Computer Time or External Time Sync generator)
- Fixed text or a dynamic display in real time(Sensor, date, counter, clock..)
- Set character position by mouse click(with free edit s/w)
- Character Edit by computer
- Color available (Character, background)
- Auto Cable equalization, re-clocking
- Clock recovery circuit, Effective jitter remove
- Checkfield test (Pathological Code, Circle detection) pass
- HD-SDI Indication LEDs
- 4TE x 16 Front panel
- Built-in Time Generator

Model	PVD-16S1004HD
SDI Video Input	1, BNC, 75Ω/Unbalanced
SDI Video Output	4, BNC, 75Ω/Unbalanced
Character Display	English/ Chinese/ Korean, 8 Lines of text, , 64x64 dot matrix size, dynamic character display , Any position, Time&Date display , Color(Character, Backgound)
Communication	RS-485
Amplitude	800mVp-p ± 10%
Overshoot	10% Amplitude
Video Format	SD-SDI、HD-SDI、3G-SDI
Video Standard	SMPTE 259M/292M/424M/DVB-ASI
Video Rate	143M、177M、270M、360M、540M、1485M、2970M
Video Resolution	SD 525i/625i HD 720p 24, 25/30, 50/60 HD 1080i 50/60 HD 1080p 24, 25/30, 50/60
Retiming	Auto retiming , Automatic identification of various rates
Equalization	Auto Equalization
Rise & Fall Time	≥0.4ns , ≤1.50ns@270Mbps , Difference less than 0.5ns
	≤270ps@1.485Gbps , Difference less than 100ps
	≤135ps@2.97Gbps , Difference less than 50ps
Alignment Jitter (100KHz)	≤0.2UI @270Mbps , at 1KHz
	≤0.2UI @1.485Gbps , at 100KHz
	≤0.3UI @2.97Gbps , at 100KHz
Timing Jitter(10Hz)	≤0.2UI @270Mbps
	≤1.0UI @1.485Gbps
	≤2.0UI @2.97Gbps
Auto Equalization (Belden 1694A Standard)	> 400M/SD SDI ;
	> 200M/HD SDI ;
	> 100M/3G SDI ;
Embaed Audio	Support, Stereo Analog audio or AES/EBU digital audio
Operating Temp.	-20°C~+70°C
Operating Humidity	0~90% , Non-condensing
Input Power	DC12V, 80W (PSU : PPW-3U12V5A)
Communication Card	4TE, RS-485,
Dimension	112x144x38mm
Led Indicator	SDI, Error

Connection Diagram



3G HD-SDI Real Time Character Insertion in to 3G HD-SDI video and 1: 3 Video Distribution, 1 Character Output

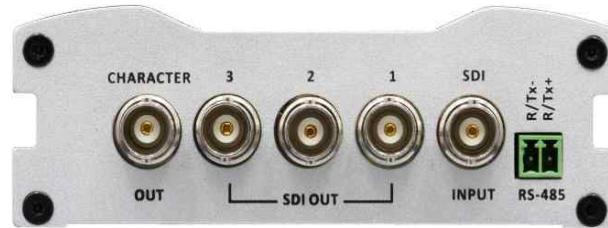
PCG-S1013HD



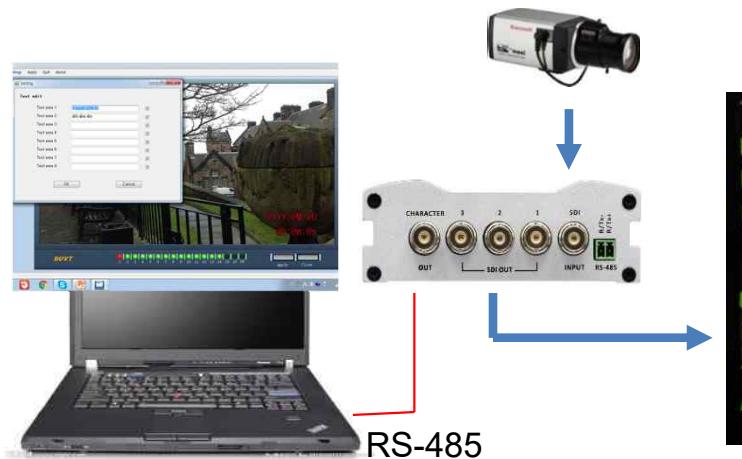
- Multi-format Operation(SD/HD/3G SDI/DBV-ASI)
- SMPTE259M/ 292M/424M standard
- 1Ch. SDI Input, 1Ch. SDI Output w/ Character, 3Ch, SDI Output
- 3G-SDI / HD-SDI / Signal Auto detection
- Embeded Digital Audio
- Text and Image Insertion
- 64x64 Dot Matrix Size Character support
- 8 Line character display at any position
- Time & Date display(Computer Time or External Time Sync generator)
- Fixed text or a dynamic display in real time(Sensor, date, counter, clock..)
- Set character position by mouse click(with free edit s/w)
- Character Edit by computer
- Color available (Character, background)
- Auto Cable equalization, reclocking
- Clock recovery circuit, Effective jitter remove
- Checkfield test (Pathological Code, Circle detection)
- HD-SDI Indication LEDs

Model	PVD-S(R)1013HD
SDI Video Input	1, BNC, 75Ω/Unbalanced
SDI Video Output	3, BNC, 75Ω/Unbalanced
SDI Video Output(Character)	1, BNC, 75Ω/Unbalanced
Character Display	English/ Chinese/ Korean, 8 Line, 64x64 dot matrix size, dynamic character display , Any position, Time & Date display , Color(Character, Background)
Communication	RS-485
Amplitude	800mVp-p ± 10%
Overshoot	10% Amplitude
Video Format	SD-SDI, HD-SDI, 3G-SDI
Video Standard	SMPTE 259M/292M/424M/DVB-ASI
Video Rate	143M、177M、270M、360M、540M、1485M、2970M
Video Resolution	SD 525i/625i HD 720p 24, 25/30, 50/60 HD 1080i 50/60 HD 1080p 24, 25/30, 50/60
Retiming	Auto retiming , Automatic identification of various rates
Equalization	Auto Equalization
Rise & Fall Time	≥0.4ns , ≤1.50ns@270Mbps , Difference less than 0.5ns ≤270ps@1.485Gbps , Difference less than 100ps ≤135ps@2.97Gbps , Difference less than 50ps
Alignment Jitter (100KHz)	≤0.2UI @270Mbps , at 1KHz ≤0.2UI @1.485Gbps , at 100KHz ≤0.3UI @2.97Gbps , at 100KHz
Timing Jitter(10Hz)	≤0.2UI @270Mbps ≤1.0UI @1.485Gbps ≤2.0UI @2.97Gbps
Auto Equalization (1694A Standard)	> 400M/SD SDI ; > 200M/HD SDI ; > 100M/3G SDI ;
Embedded Audio	Support, Stereo Analog audio or AES/EBU digital audio
Operating Temp.	-20°C~+70°C
Operating Humidity	0~90% , Non-condensing
Input Power	12VDC±10%
Power Consumption	Max 4W
Dimension	112x144x38mm
Led Indicator	Power, SDI, Error Code

PCG-S1013HD



1Ch. SDI Input
3Ch. SDI Output
1Ch . SDI Output w/ Character



A PC application provided with the character generator allows to easily configure the parameters as follows:

- The position of the text insertion(x and y) for each of 8 lines / The text size
- The background presence or not / The text and background color
- Position set by mouse / Time and Date sync by computer time



Modify slot interval

3U 19 Inch Rack Mount (Up to 10)

3G HD-SDI Fiber Optic Receiver with 3G HD-SDI Real Time Character Insertion in to 3G HD-SDI video and 1: 2 Video Distribution

POT-S01HD-20KM-Rx-CG



- Digital Video signals over fiber optic link
- Multi-format Operation(SD/HD/3G SDI/DBV-ASI)
- SMPTE259M/ 292M/424M
- 2Ch. SDI Output w/ Character
- 3G-SDI / HD-SDI / SD-SDI Signal Auto detection
- Embedded Digital Audio
- Text and Image Insertion
- 64x64 Dot Matrix Size Character support
- 8 Line character display at any position
- Time & Date display
- Dynamic Character support
- Set character position by mouse click(with free edit s/w)
- Character Edit by computer
- Color (Character, background)
- Auto Cable equalization, reclocking
- Clock recovery circuit, Effective jitter remove
- Checkfield test (Pathological Code, Circle detection)
- HD-SDI Indication LEDs

Model	POT-S01HD-20KM-Rx-CG
SDI Video Input	1, BNC, 75Ω/Unbalanced
SDI Video Output	4, BNC, 75Ω/Unbalanced
Character Display	English/ Chinese/ Korean, 8 Line, 64x64 dot matrix size, dynamic character display , Any position, Time&Date display , Color(Character, Background)
Communication	RS-485
Amplitude	800mVp-p ± 10%
Overshoot	10% Amplitude
Video Format	SD-SDI、HD-SDI、3G-SDI
Video Standard	SMPTE 259M/292M/424M/DVB-ASI
Video Rate	143M、177M、270M、360M、540M、1485M、2970M
Video Resolution	SD 525i/625i , HD 720p 24, 25/30, 50/60, HD 1080i 50/60 HD 1080p 24, 25/30, 50/60
Retiming	Auto retiming , Automatic identification of various rates
Equalization	Auto Equalization
Rise & Fall Time	≥0.4ns , ≤1.50ns@270Mbps , Difference less than 0.5ns
	≤270ps@1.485Gbps , Difference less than 100ps
	≤135ps@2.97Gbps , Difference less than 50ps
Alignment Jitter (100KHz)	≤0.2UI @270Mbps , at 1KHz
	≤0.2UI @1.485Gbps , at 100KHz
	≤0.3UI @2.97Gbps , at 100KHz
Timing Jitter(10Hz)	≤0.2UI @270Mbps
	≤1.0UI @1.485Gbps
	≤2.0UI @2.97Gbps
Auto Equalization (1694A Standard)	> 400M/SD SDI ;
	> 200M/HD SDI ;
	> 100M/3G SDI ;
Embaed Audio	Support, Streo Analog audio or AES/EBU digital audio
No of optic fiber	1
Optical Wavelength	Single Core, 1310/1550nm WDM
Distance	≤20Km (Option 20 ~ 60km)
Operating Temp.	-20°C~+70°C
Operating Humidity	0~90% , Non-condensing
Input Power	12VDC±10%
Power Consumption	Max 4W
Dimension	112x144x38mm
Led Indicator	SDI, Error

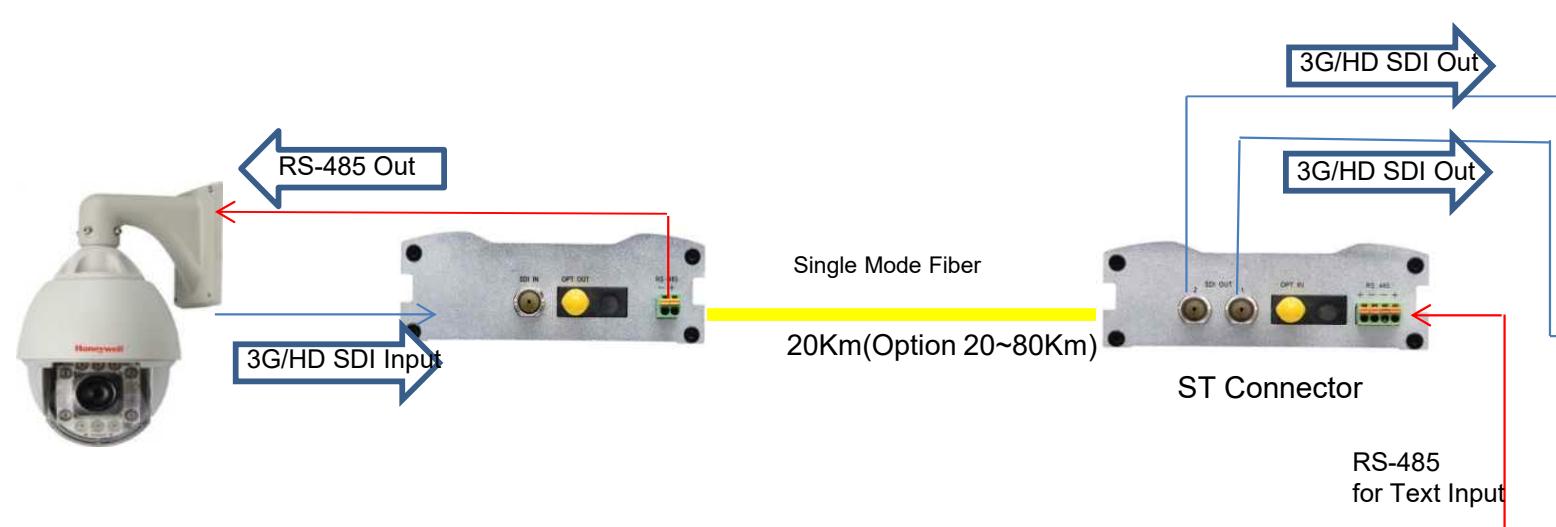
POT-S(R)01HD-20KM-Rx-CG

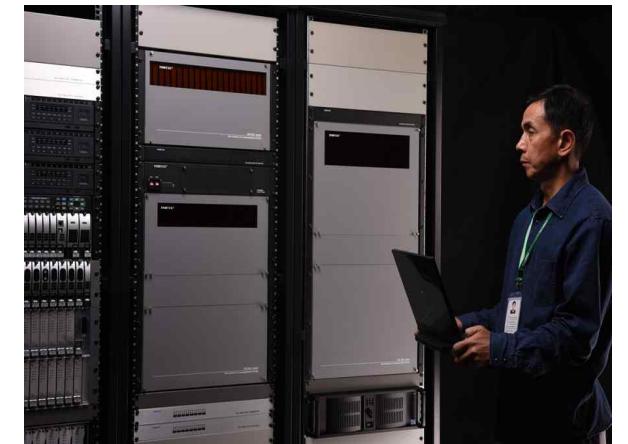
Receiver



Mount Bracket

ST Connector





DK SOLUTIONS

dkahn@dksolutions.co.kr

Tel : +82 10 9180 6256

HD-SDI Matrix Switcher | HD-SDI Fiber Optic Link | HD-SDI Video Distributor | HD-SDI Character Generator
CDMA Time Generator & Sync | HD-SDI Camera & Recorder