



The World's first certified by HDcctv Alliance

Instruction Manual

HD-SDI PoC Repeater : RP101P

Power Supply : PS101P

※ Please read this instruction manual carefully before installing or using the products.

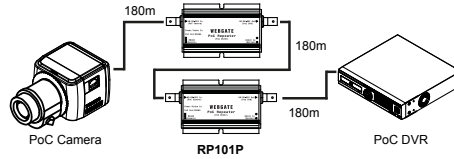
FEATURES

1. PoC(Power over Coax), CoC(Control over Coax) and video transmission can be done with a coaxial cable.
2. When connected to a PoC DVR, there are no need for power adapter installation or additional RS485 cabling.
3. Restores attenuated HD-SDI video signal and send them out.
4. Automatically recognizes video format and send them out.
5. With recommended cable, transmission distance can be extended up to 540m.

HOW TO CONNECT DEVICE

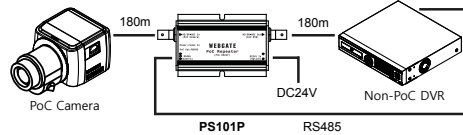
How to connect the RP101P

1. Connect the PoC camera output to RP101P video input.
2. Connect the RP101P video output to PoC DVR.
3. Up to 2(two) RP101P can be connected between PoC DVR and PoC Camera. Please check the below picture.



How to connect the PS101P

1. Use RS101P to connect PoC Camera if the DVR does not support PoC function.
2. Connect the PoC camera output to PS101P video input.
3. Connect the PS101P video output and RS485 to DVR.
4. Connect the power to PS101P.



INPUT / OUTPUT / CONTROL

Video Input

As shown on the below table, 8 types of video input are supported.

60Hz	50Hz
1920x1080p30	1920x1080p25
1280x720p60	1280x720p50
1280x720p30	1280x720p25
DoubleReach™	DoubleReach™

Video Input

Restores output is the same as the input. Restores attenuated HD-SDI video signal and send them out.

PoC(Power over Coax)

Technology to supply camera powers with coaxial cable when connected to WEBGATE's PoC DVR.

CoC(Control over Coax)

Technology to transfer camera control data with coaxial cable when connected to WEBGATE's PoC DVR.

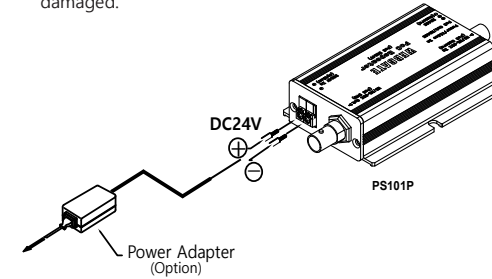
DoubleReach™

Technology to compress and transfer Full-HD video from HD-SDI camera with undistinguishable video quality level by naked eye, doubles the transmission distance.

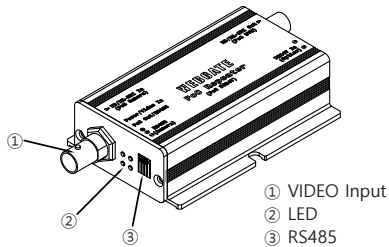
CAUTION FOR CONNECTING POWER

As for a product which needs additional power supply like PS101P, connect the power adapter to the device first, then power the device. If otherwise, there might be a risk of electric shock or equipment failure.

Be careful to the polarity(+,-) and input voltage(DC24V) when connecting power to protect the equipment from damage. Otherwise, the product can seriously be damaged.

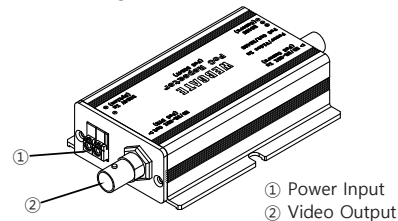


COMPONENTS AND FUNCTION

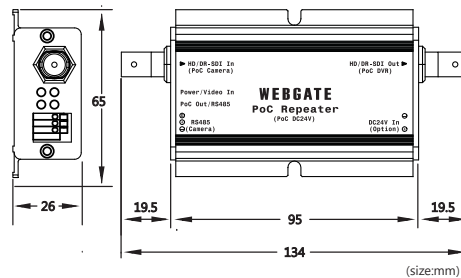


LED Status

Power : Red LED with power in.
PoC out : Red LED with PoC power out.
Video In : Green LED with video in.
RS485 : Blinking Green LED with RS485 in.



DIMENSION



WEBGATE

HD-CCTV solution provider

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Premium to your HD-CCTV solution

ENG Rev 1.0

CAUTION FOR CABLE / CONNECTOR

The impedance of the coaxial cable and BNC connectors must be 75 Ohm. The maximum HD-SDI transmission distance can be varied by the cable manufacturer or installed environment. Please refer to the below table for recommendation.

Cable type	HD-SDI Transmission Distance	DoubleReach Transmission Distance	Details for usage
3C2V	Approx. 90M	Approx. 130M	Cable for analogue
4C-FB(T), 4C-HFB(T), RG59	Approx. 140M	Approx. 280M	High-foamed cables, double or triple shielded cables are recommended
5C-FB(T), 5C-HFB(T), L-6CHD, RG6	Approx. 180M	Approx. 360M	Recommended HD-SDI cable

- Note) When selecting the cable, transmission distance may differ on attenuation of 750MHz. (Recommendation is dB/100m < 25dB attenuation)
- Note) Foamed or high-foamed insulation cable is recommended.
- Note) Double or triple shielded cable is also recommended.

SPECIFICATION

Model	PS101P / RP101P
Video Input / Output	1CH (HD-SDI SMPTE 292M), DoubleReach™
Resolution	SMPTE 274M(1080p), SMPTE296M(720p)
Function	Include equalizing, Redocking, Cable Driving
PoC	Power over Coax Max : 16W, DC24V
CoC	Control over Coaxial Baudrate : 57600
Indication LED	Red : Power, PoC Out Green : Video In, RS485
Input Voltage(Optional)	DC24V
Power Consumption	Max 2W
Operating Temperature/Humidity	+0°C to +50°C / 20%RH to 80%RH
Dimension (W x D x H)	134 x 65 x 26 mm
Weight	Approx. 140g(0.3lbs)
Certifications	KC, FCC, CE, RoHS, HDcctv