



Instruction Manual

HD-SDI DoubleReach™

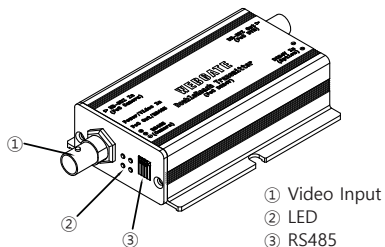
Transmitter : DR101P-TX
Receiver : DR101P-RX

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

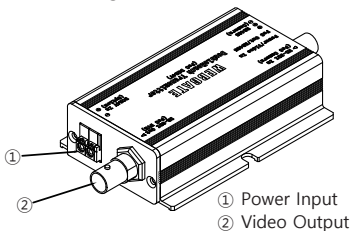
FEATURES

1. With recommended cable, transmission distance can be extended up to 540m.
2. With PoC/CoC function, there are no need for power adapter installation or additional RS485 cabling.
3. DR101P-TX takes HD-SDI video signal and converts the signal to DoubleReach™ signal. With CoC function, RS485 signal can be delivered at the same time.
4. DR101P-RX receives DoubleReach signal and converts it into HD-SDI signal. RS485 control signal from DVR can be sent to DR101P-TX by CoC function.

COMPONENTS AND FUNCTION



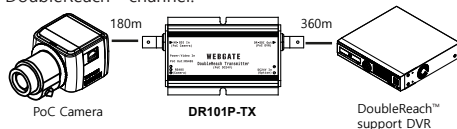
LED Status
Power : Red LED with power in.
PoC Out : Red LED with PoC power out.
Video In : Green LED with video in.
RS485 : Blinking Green LED with RS485 in.



HOW TO CONNECT DEVICE

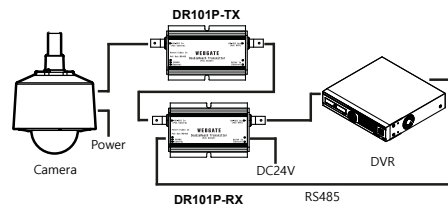
How to connect the DR101P-TX

1. Connect the PoC camera output to DR101P-TX video input.
2. Connect the DR101P-TX video output to DVR's DoubleReach™ channel.

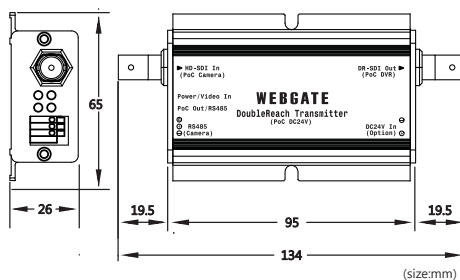


How to connect DR101P-RX

1. Connect camera output to DR101P-TX video input.
2. Connect the DR101P-TX video output to DR101P-RX video input.
3. Connect the DR101P-RX video output and RS485 to DVR.
4. Connect the power to DR101P-RX.



DIMENSION



WEBGATE

HD-CCTV solution provider

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Premium to your HD-CCTV solution

ENG Rev 1.0

INPUT / OUTPUT / CONTROL

DoubleReach™

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

PoC(Power over Coax)

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

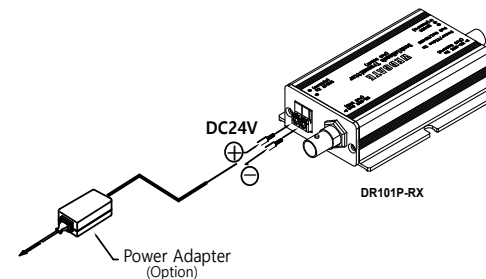
CoC(Control over Coax)

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

CAUTION FOR CONNECTING POWER

As for a product which needs additional power supply, 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.



CAUTION FOR CABLE / CONNECTOR

The impedance of the coaxial cable and BNC connectors must be 75 Ohm. The DoubleReach™ Transmitter can transfer its signal up to 360m. 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	DR101P-TX	DR101P-RX
Video Input / Output	1CH(HD-SDI SMPTE 292M)	Input : DoubleReach Output : HD-SDI
Resolution	SMPTE 274M(1080p25/30)	
Function	DoubleReach™ Converting	
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 3W	
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. 170g(0.37lbs)	
Certifications	KC, FCC, CE, RoHS, HDcctv	